Scientists, Engineers, and Technicians in the United States: 2000

Detailed Statistical Tables

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Division of Science Resources Statistics
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CONTENTS

General Notes

In this report, estimates of the total number of positions filled by scientists, engineers, and technicians employed in the U.S. economy in 2000 are presented by industry and by occupational category. Estimates are also presented for mean wages (hourly and annual) of scientists, engineers, and technicians by industry and by occupational category. Summary employment estimates by broad and detailed industry of employment are in tables 1–4. Employment estimates by detailed occupational classification and by industry are in tables 5–10. Wage estimates are in tables 11–20.

The estimates were developed from the Occupational Employment Statistics (OES) survey, a federal/state program under which national and state estimates of employment, by industry, are generated for nonfarm wage and salary workers. The Bureau of Labor Statistics (BLS) of the U.S. Department of Labor has primary responsibility for developing OES survey procedures and for providing states with technical guidance and assistance with survey problems. State employment security agencies implement the survey at the state level and prepare current and projected employment statistics for these labor markets. Some states also prepare substate estimates. See the Technical Notes for more information about the OES survey.

The Division of Science Resources Statistics of the National Science Foundation (NSF) has enhanced the BLS effort since 1977 by financing the collection of detailed estimates on the kinds of scientific and technical jobs filled, by industry. Analysis of this information yields insights into the dynamics of the labor market. Industries identified in the tables of this report are from the "Numerical List of Short Titles" in the *Standard Industrial Classification* (SIC) *Manual, 1987*. The occupational categories are based on the revised Standard Occupational Classification (SOC) System.

Because both the SIC and SOC classification systems have been revised over time, comparisons of 2000 estimates with those published by NSF from previous years of the OES survey should be made with caution. Where possible, former categories were crosswalked to new ones, but often that was not possible. In addition, the scope of the OES survey changed in 1996 from sampling from only about one-third of the economy in each cycle (covering each SIC industry once every 3 years), to sampling from every SIC industry each year.

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TECHNICAL NOTES

The Occupational Employment Statistics (OES) survey is an annual mail survey of occupational employment and wage rates for wage and salary workers in nonfarm establishments, by industry. Approximately 400,000 establishments are sampled for the survey each year; over 3 years, approximately 1.2 million establishments are contacted. The reference period for each year's survey is the fourth quarter of that year. Although estimates can be made from a single year of data, the OES survey has been designed to produce estimates using a full 3 years of data. The sample allows the production of estimates at detailed levels of geography, industry, and occupation. (See Estimation, below.)

Extensive portions of the material in these technical notes have been excerpted or reproduced verbatim from "Appendix B. Survey Methods and Reliability of the 2000 Occupational Employment Statistics Estimates" of Bulletin 2549, *Occupational Employment and Wages, 2000* (April 2002; available online at http://bls.gov/oes/2000/AppendixB.pdf), of the U.S. Department of Labor, Bureau of Labor Statistics (BLS). Readers are encouraged to consult that appendix for more complete explanations.

OCCUPATIONAL CLASSIFICATION

The 1999 OES survey was the first to incorporate the Standard Occupational Classification System (SOC), a revised occupational classification system of the Office of Management and Budget (OMB). The SOC is the occupational classification system required by OMB for use by all federal agencies. The OES survey uses 22 major occupational groups from the SOC to categorize workers in one of almost 770 detailed occupations. The 2000 OES survey wage estimates were developed from combined 1999 and 2000 data obtained from approximately 800,000 sample units. Occupational employment estimates are based only on data collected in the 2000 survey.

The major groups of the SOC are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social services occupations
- Legal occupations
- Education, training, and library occupations
- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioners and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry occupations
- Construction and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations
- Transportation and material moving occupations
- Military-specific occupations (not surveyed as part of OES).

DEFINITIONS

Employment. Employment is defined as the number of workers who can be classified as full-time or part-time employees, including workers on paid vacations or other types of leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey excludes the self-employed, owners and partners of unincorporated firms, unpaid family workers, workers on unpaid leave, and contractors and temporary help employees not on an establishment's payroll. Employees are reported in the occupation in which they are working, rather than the occupation for which they were trained.

In this report, employment represents the estimate of total wage and salary employment in an occupation. To reduce paperwork and respondent burden, no OES survey form contains every SOC occupation. Instead, the survey form sent to an establishment contains 50 to 225 SOC occupations selected on the basis of the industry classification and size class of the sampled establishment. Thus, data for specific occupations are collected primarily from establishments within industries that are the predominant employers of labor in those occupations. Occupations not listed can be added to the survey form.

Establishment. An establishment is an economic unit that produces goods or services. It generally is found at a single physical location and is engaged predominantly in one type of economic activity. Where a single physical location encompasses two or more distinct activities, these are treated as separate establishments if separate payroll records are available and certain other criteria are met.

Standard Industrial Classification (SIC). The industrial classification system used in this survey is described in the *Standard Industrial Classification Manual: 1987* (Office of Management and Budget: Washington, DC), which classifies reporting establishments into industries on the basis of major product or activity. The OES program produces estimates by both two-digit and three-digit SIC codes, estimates across all industries, and estimates of total national employment.

Wages. Wages for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate, cost-of-living allowances, guaranteed pay, hazardous-duty pay, incentive pay including commissions and production bonuses, tips, location differential, length-of-service allowances, and on-call pay are included. Excluded are attendance bonuses, back pay, jury duty pay, overtime pay, severance pay, shift differentials, nonproduction bonuses, tuition reimbursements, meal and lodging allowances, merchandise discounts, profit-sharing distributions, relocation allowances, and stock bonuses.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation by wage interval. The wage intervals used for the 2000 survey are as follows:

	Wages (dollars)	
Interval	Hourly	Annual
A	under 6.75	under 14,040
B	6.75–8.49	14,040–17,679
C	8.50–10.74	17,680–22,359
D	10.75–13.49	22,360–28,079
E	13.50–16.99	28,080–35,359
F	17.00–21.49	35,360–44,719
G	21.50–27.24	44,720–56,679
H	27.25–34.49	56,680–71,759
I	34.50–43.74	71,760–90,999
J	43.75–55.49	91,000–115,439
K	55.50–69.99	115,440–145,599
L	70.00 and over	145,600 and over

Mean wage. The mean wage is the estimated total wages for an occupation divided by its weighted survey employment. A mean hourly wage value is calculated for each wage interval, A through K, based on occupational wage data collected by the BLS Office of Compensation and Working Conditions. The mean wage value for the upper open-ended wage interval L ($70.00 and over) is its lower bound (Winsorized mean). These interval mean wage values are then attributed to all workers reported in the interval. For each occupation, total weighted wages in each interval are summed across all intervals and divided by the occupation's weighted survey employment.

Median wage. The median wage is the estimated 50th percentile of the distribution of wages: 50 percent of workers in an occupation earn wages below, and 50 percent earn wages above, the median wage. The wage interval containing the median wage is located using a cumulative frequency count of employment across wage intervals. The median wage rate is then estimated using a linear interpolation procedure.

Annual wage. Annual wage estimates are calculated by multiplying the mean hourly wage by 2,080 hours (52 weeks per year multiplied by 40 hours per week). Employees paid at an hourly rate by their employers may work less than or more than 40 hours per week. Thus, the annual wage estimates may not represent the actual annual pay received by employees. For a small number of occupations in this report only an annual wage figure is provided. The workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data.

Producing estimates using 2 years of sample data provides additional occupational detail and reduces sampling error (particularly for small geographic areas and occupations). However, this procedure also has quality limitations because it requires the adjustment of data from earlier years to the current reference period—a procedure referred to as "wage updating." The OES program uses the over-the-year fourth-quarter wage changes from the BLS Employment Cost Index (ECI) to adjust prior-year survey data before combining them with the current-year data. The wage updating procedure assumes that each occupation's wage, as measured in the earlier years, moves according to the average movement of its

occupational division and that there are no major geographic or detailed occupational differences—and this may not be the case. BLS has conducted research over the past several years on the accuracy of the ECI wage-updating method compared with other modeling approaches. Current research results support the continued use of the ECI wage-updating methodology.

Scope of Survey

The survey covers establishments in SIC codes 07, 10 through 42, 44 through 87, 89, and state and local governments. In addition, data for the U.S. Postal Service and for the federal government are universe (total) counts obtained from the U.S. Office of Personnel Management (OPM). Occupational employment and wage estimates at the national level were produced by BLS using employment and wage data from the 50 U.S. states and the District of Columbia. Guam, Puerto Rico, and the U.S. Virgin Islands were surveyed; however, data from these territories are not included in the production of national estimates.

For the OES survey, employers are requested to provide occupational data for a particular reference date. The reference date for any particular establishment in the survey is dependent on its SIC code. The reference date for the 2000 survey was the pay period that included October 12, November 12, or December 12 of 2000, depending on SIC code. The pay period including the 12th day of the reference month is standard for federal agencies collecting employment data.

Method of Collection

Survey questionnaires (schedules) were initially mailed out to almost all sampled establishments; personal visits were made to some of the larger establishments.

Two additional mailings were sent to nonresponding establishments at approximately 3-week intervals. Telephone or personal-visit follow-ups were made for those nonresponding establishments considered critical to the survey because of their size.

Sampling Procedures

The OES survey is based on a probability sample and is designed to represent the universe of establishments it covers. The survey is designed to produce estimates over a 3-year cycle. Each year, one-third of the sample units are included in the survey. Estimates for the 2000 survey, however, are based only on 2 years of data (1999 and 2000) because of the conversion to the Standard Occupational Classification System in 1999.

Establishments in eligible two- and three-digit SIC codes that reported to a state employment security agency for unemployment insurance purposes constitute the sampling frame for this survey. Virtually all businesses are required to file such a report with the state in which they are located. Each quarter, BLS combines the lists from all states into a single file called the Longitudinal Database (LDB), a compilation of state unemployment insurance reports. For the 1999 survey the sampling frame was the LDB file from the second quarter of 1998; for the 2000 survey it was the LDB file from the second quarter of 1999. The sampling frame was supplemented with a list supplying establishment information on railroads (SIC 401). OPM provided data representing federal government employment and wages, obtained from an annual census of federal government establishments, at the end of the survey process.

Within each state, establishments in the universe were stratified by Metropolitan Statistical Area (MSA), three-digit SIC code, and size of firm. An establishment's size class is determined by its employment as reported on the sampling frame. Establishments in smaller size classes were selected based on a probability sample. Establishments in larger size classes are sampled with virtual certainty during the 3-year cycle of the survey. The targeted sample size of 1.2 million establishments per 3-year cycle was allocated in a manner that equalized the expected relative standard error of the typical occupational employment within the cell for each MSA and three-digit SIC. Within each of these cells, the sample was allocated across size classes in a manner that minimized the variance of the average typical occupational employment estimate.

Response

Of the 369,694 eligible units from the 1999 sample, usable responses were obtained from 286,903, producing a response rate of 77.6 percent based on units. Of the 375,387 eligible units from the 2000 sample, usable responses were obtained from 293,450, producing a response rate of 78.2 percent based on units.

Estimation

Combining data across years was challenging because of the 1999 transition to a new SOC-based OES occupational coding system. Although most of the former

OES occupations can be crosswalked to a counterpart in the new system, many of the relations between the two coding systems are not one-to-one. Many former OES occupations are crosswalked to residual occupations, meaning that occupation is no longer surveyed as a detailed occupation. Similarly, there are occupations in the new system that were not surveyed in the old system; thus, there is only one year of data for those occupations. For more information about the SOC, please see the discussion of the SOC at the BLS Web site (http://www.bls.gov/soc).

Sample Weights

Each sampled establishment was assigned an original sampling weight, the reciprocal of the establishment's probability of selection (i.e., its design weight) within its sampled year.

Weights were modified for each in-scope establishment in a cell by dividing the establishment's design weight by a factor indicating the number of years for which sample units were selected from that sampling cell. This weight was used in the calculation of the 2000 estimates based on combining data from the 1999 and 2000 surveys.

Nonresponse

Nonresponding establishments are accounted for in the OES survey by a two-step imputation process. First, the staffing pattern is imputed using a "hot-deck," "nearest-neighbor" imputation method. Hot-deck procedures use data from the current period to impute for missing data (from the current period). The nearest-neighbor method searches the responding establishments within a defined cell and finds the one that most closely matches the nonresponding establishment for key classification values (such as area, SIC, size class). The staffing pattern (employment distribution), of the responding establishment is used as the staffing pattern of the nonresponding establishment.

Combining and Benchmarking Multiyear Data

Whenever possible, data from the 1999 and 2000 surveys were combined. The remaining occupational wage estimates and all of the employment estimates were produced using only 2000 data. Each year's sample was weighted to represent the sample as it appeared at the time the sample was selected. In order to combine the data, each unit's weight was modified to have the aggregate sample represent the universe. This was done by dividing each unit's weight by the number of years for which sample units were selected for that stratum.

Estimated Employment

A ratio estimator was used to develop estimates of occupational employment. The auxiliary variable was the population value of total employment obtained from the refined unemployment insurance files for the 2000 reference month. Within each MSA, the estimated employment for an occupation at the reported three-digit SIC level was calculated by multiplying the weighted employment by its ratio factor. The estimated employment for an occupation at the all-industry level was obtained by summing the occupational employment estimates across all industries within an MSA reporting that occupation. The employment and wage data for federal government workers in each occupation were added to the survey-derived data.

Variance of Estimates

Estimates of sampling error are calculated to allow the users to determine if occupational employment estimates are reliable enough for their needs. Only a probability-based sample can be used to calculate estimates of sampling error from the sample itself.

The formula used to estimate occupational employment variances (a common measure of sampling error) is based on the survey's sample design and method of estimation. The OES survey used a subsample replication technique called the jackknife random group to estimate variances of occupational employment. In this technique, each sampled establishment is assigned to one of G random groups. Using the data in these groups, G subsamples are formed from the parent sample. Next, G estimates of total employment for an occupation P are calculated, one employment estimate per subsample. The variability of these G employment estimates is then calculated. This variability is the BLS variance estimate of the employment estimate for occupation P.

Discrepancies between Employment Estimates and Wage Estimates

Users consulting both occupational employment estimate tables and wage estimate tables may notice apparent discrepancies between two tables in the treatment of identical variables. For instance, wage estimates may

be displayed for certain occupations for which no employment estimates are reported, or employment or wage data may be displayed at the two-digit SIC level but not for the component three-digit SIC industries that together constitute the displayed two-digit industry. The two principal reasons for apparent discrepancies are (1) that BLS-applied suppression rules differ for employment estimates and for wage estimates, and (2) data at the three-digit SIC level may have to be suppressed to assure that individual establishments cannot be identified.

Reliability of the Estimates

Estimates developed from a sample may differ from the results of a census. Two types of error, sampling and nonsampling, can occur in estimates calculated from a sample. Sampling error occurs because observations are based on a sample, not on the entire population. Nonsampling error occurs because of response and operational errors in the survey. Unlike sampling error, this form of error can also occur in a census.

Sampling Error

The particular sample used in this survey is one of many possible samples of the same size that could have been selected using the same sample design. Estimates derived from different samples tend to differ from one another. The variance of a survey estimate is a measure of the variation among the estimates from all possible samples. The standard error of a survey estimate is the square root of its variance; the relative standard error is the ratio of the standard error to the estimate itself.

By using the sample estimate and its standard error, the user can construct an interval estimate with a prescribed level of confidence that the interval will include the mean value of the estimate from all possible samples.

For example, suppose that an estimated occupational employment total is 5,000 and has an associated relative standard error of 2.0 percent. Based on these data, the standard error of the estimate is 100 (2 percent of 5,000). A 68 percent confidence interval for the employment estimate is 5,000 ± 100, or from 4,900 to 5,100. Approximately 68 percent of the intervals constructed in this manner will include the mean of all possible employment estimates as computed from all possible samples. A 95 percent confidence interval for the employment estimate is 5,000 ± 196, or from 4,804 to 5,196. Approximately 95 percent of the intervals constructed in this manner will include the mean of all possible employment estimates as computed from all possible samples. Estimates of sampling errors for occupational employment estimates are available for most estimates.

Nonsampling Error

Nonsampling error is attributable to such causes as an inability to obtain information for all establishments in the sample; differences in respondents' interpretation of the survey question; respondents' inability or unwillingness to provide correct information; errors made in recording, coding, or processing the data; and errors made in imputing values for missing data. Explicit measures of the effects of nonsampling error are not available. The relative standard error indicates the magnitude of the sampling error; it does not measure nonsampling error, which includes biases in the data. Particular care should be exercised in the interpretation of small estimates or of small differences between estimates when the sampling error is relatively large or the magnitude of the bias is unknown.

Several edit and quality-control procedures were used to reduce nonsampling error. For example, completed survey questionnaires were checked for data consistency, follow-up mailings were sent to nonresponding establishments to improve the survey response rate, and response analysis studies were conducted to assess respondents' comprehension of the questionnaire. Additional quality control procedures used in the OES survey are described below in "Quality Control Measures."

Relative Standard Error Not Displayed

Mean hourly wages are calculated from the mean values of the lower 11 of 12 wage intervals using data from the BLS National Compensation Survey (see Definitions, above). Because of space restrictions, relative standard errors are not displayed for estimates of mean hourly wages and mean annual wages for scientists, engineers, and technicians in tables 13–20. Relative standard errors for mean hourly wages were calculated and are available on request. Relative standard errors were not calculated for mean annual wages because the estimates for mean annual wages were calculated directly by multiplying mean hourly wages by 2,080 hours, which for this survey represents full-time employment.

All employment estimates for employees not allocated to a specific SIC (tables 1–4 and table 10) are residually determined by subtracting the subtotal of

estimates allocated by industry from the estimate of total filled positions. Because these values are calculated rather than estimated, no relative standard error of the estimate is shown for them in table 10. Relative standard errors of the employment estimates are displayed for occupational subclassifications in tables 5–10 but not for the occupational totals. Relative standard errors of these estimates are not available because the occupational totals are simple arithmetic sums of the occupational subclassification estimates.

Quality Control Measures

The OES survey is a cooperative program and has limited personnel resources. Nonetheless, the program must accommodate state-specific publication needs; standardize survey procedures across all 50 U.S. states, the District of Columbia, and the U.S. territories; and produce quality estimates. Controlling sources of nonsampling error in this decentralized environment can be difficult. In addition, edit and validation checks are distributed across eight regional offices, which can lead to procedural differences between the regions. Two important quality control measures used by the OES survey are the Survey Processing and Management (SPAM) System and the Estimates Delivery System (EDS). Both systems were developed to provide a consistent and automated framework for survey processing and to reduce the workload at the state, regional, and national levels.

By standardizing data processing activities, such as refining mailing addresses, addressing envelopes and mailers, editing and updating questionnaires, producing management reports, and calculating employment estimates, the SPAM system and the EDS have consequently standardized survey methodology. This has reduced the number of errors on the data files as well as the time needed to review them.

Other quality control measures implemented in the OES survey include

- Follow-up of solicitations of nonrespondents (especially critical nonrespondents),
- Review of schedules to verify the accuracy and reasonableness of the reported data,
- Adjustments of atypical reporting units on the data file,
- Validation of the benchmark employment figures and of the benchmark factors,
- Validation of the analytical tables of estimates (at the two- and three-digit SIC levels), and
- Use of bar codes to reduce keypunch errors.

Detailed Statistical Tables

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Summary Employment Tables

Tables by Standard Industrial Classification (SIC) Code

Wage Tables

Table *Page*

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total		5,718,300	100.0	564,600	100.0	2,173,600	100.0	1,285,800	100.0	1,694,300	100.0
Agriculture, forestry, and fishing		4,100	0.1	<	<	700	<	300	<	3,200	0.2
Agricultural services	07	4,100	0.1	<	<	700	<	300	<	3,200	0.2
Crop services	072	600	<	<	<	200	<	100	<	300	<
Animal services, except veterinary	075	1,400	<	<	<	100	<	<	<	1,300	0.1
Farm labor and management services	076	<	<	<	<	<	<	<	<	<	<
Landscape and horticultural services	078	1,800	<	<	<	200	<	100	<	1,400	0.1
Not allocated by detailed industry		300	<	<	<	100	<	<	<	200	<
Mining		38,500	0.7	3,300	0.6	7,100	0.3	15,500	1.2	12,700	0.7
Metal mining	10	2,900	0.1	300	0.1	400	<	1,200	0.1	900	0.1
Iron ores	101	100	<	<	<	<	<	100	<	<	<
Copper ores	102	300	<	100	<	<	<	200	<	<	<
Gold and silver ores	104	1,100	<	100	<	200	<	400	<	500	<
Metal mining services	108	100	<	<	<	100	<	<	<	<	<
Misc. metal ores, n.e.c.	109	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		1,200	<	200	<	200	<	500	<	400	<
Coal mining	12	2,000	<	300	<	100	<	1,000	0.1	600	<
Bituminous coal and lignite mining	122	1,900	<	200	<	100	<	1,000	0.1	600	<
Not allocated by detailed industry		200	<	<	<	100	<	<	<	<	<
Oil and gas extraction	13	31,400	0.5	2,400	0.4	6,200	0.3	12,400	1.0	10,500	0.6
Crude petroleum and natural gas	131	19,000	0.3	1,500	0.3	4,300	0.2	8,000	0.6	5,200	0.3
Oil and gas field services	138	7,400	0.1	800	0.1	1,500	0.1	3,000	0.2	2,200	0.1
Not allocated by detailed industry		5,000	0.1	<	<	400	<	1,500	0.1	3,100	0.2
Nonmetallic minerals, except fuels	14	2,200	<	400	0.1	400	<	900	0.1	700	<
Crushed and broken stone	142	800	<	100	<	100	<	400	<	200	<
Sand and gravel	144	200	<	100	<	<	<	100	<	100	<
Clay, ceramic, and refractory minerals	145	200	<	<	<	<	<	100	<	100	<
Chemical and fertilizer minerals	147	100	<	<	<	<	<	100	<	<	<
Misc. nonmetallic minerals	149	100	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		800	<	100	<	200	<	300	<	200	<
Construction		84,000	1.5	8,000	1.4	4,800	0.2	40,900	3.2	30,300	1.8
General building contractors	15	21,300	0.4	3,000	0.5	900	<	10,200	0.8	7,200	0.4
Residential building construction	152	4,300	0.1	400	0.1	200	<	800	0.1	3,000	0.2
Operative builders	153	900	<	100	<	<	<	400	<	500	<
Nonresidential building excluding building	154	15,500	0.3	2,600	0.5	500	<	8,800	0.7	3,700	0.2
Not allocated by detailed industry		500	<	<	<	200	<	200	<	100	<
Heavy construction, excluding building	16	22,400	0.4	2,500	0.4	500	<	14,100	1.1	5,400	0.3
Highway and street construction	161	4,500	0.1	500	0.1	100	<	2,300	0.2	1,700	0.1
Heavy construction, except highway	162	17,600	0.3	1,900	0.3	400	<	11,700	0.9	3,600	0.2
Not allocated by detailed industry		200	<	<	<	<	<	100	<	100	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Special trade contractors	17	40,400	0.7	2,500	0.4	3,400	0.2	16,700	1.3	17,800	1.0
Plumbing, heating, air conditioning	171	9,700	0.2	900	0.2	300	<	4,400	0.3	4,200	0.2
Painting and paper hanging	172	100	<	<	<	<	<	100	<	<	<
Electrical work	173	16,300	0.3	900	0.2	2,100	0.1	5,800	0.5	7,500	0.4
Masonry, stonework, and plastering	174	900	<	100	<	<	<	500	<	300	<
Carpentry and floor work	175	700	<	100	<	<	<	200	<	500	<
Roofing, siding, and sheet-metal work	176	500	<	100	<	<	<	300	<	200	<
Concrete work	177	900	<	100	<	<	<	600	<	200	<
Misc. special trade contractors	179	7,800	0.1	300	0.1	300	<	3,700	0.3	3,500	0.2
Not allocated by detailed industry		3,500	0.1	100	<	700	<	1,200	0.1	1,500	0.1
Total manufacturing		1,455,400	25.5	153,500	27.2	306,300	14.1	553,200	43.0	442,400	26.1
Food and kindred products	20	39,900	0.7	6,200	1.1	12,300	0.6	8,500	0.7	12,900	0.8
Meat products	201	3,400	0.1	600	0.1	500	<	700	0.1	1,600	0.1
Dairy products	202	4,400	0.1	700	0.1	800	<	600	<	2,400	0.1
Preserved fruits & vegetables	203	5,800	0.1	800	0.1	2,100	0.1	1,000	0.1	2,000	0.1
Grain mill products	204	5,000	0.1	700	0.1	1,700	0.1	1,100	0.1	1,500	0.1
Bakery products	205	1,900	<	600	0.1	300	<	700	0.1	400	<
Sugar and confectionery products	206	3,300	0.1	400	0.1	1,000	<	500	<	1,400	0.1
Fats and oils	207	1,400	<	200	<	500	<	400	<	300	<
Beverages	208	10,300	0.2	1,900	0.3	3,700	0.2	2,800	0.2	1,900	0.1
Misc. food and kindred products	209	2,400	<	400	0.1	800	<	300	<	900	0.1
Not allocated by detailed industry		2,000	<	<	<	900	<	500	<	700	<
Tobacco products	21	1,600	<	400	0.1	600	<	<	<	600	<
Cigarettes	211	1,100	<	100	<	600	<	<	<	400	<
Not allocated by detailed industry		500	<	200	<	<	<	<	<	200	<
Textile mill products	22	7,800	0.1	1,500	0.3	1,100	<	2,300	0.2	2,900	0.2
Broadwoven fabric mills, cotton	221	500	<	100	<	<	<	200	<	200	<
Broadwoven fabric mills, manmade	222	900	<	300	<	100	<	300	<	300	<
Broadwoven fabric mills, wool	223	100	<	<	<	<	<	<	<	100	<
Narrow fabric mills	224	100	<	100	<	<	<	<	<	<	<
Knitting mills	225	1,700	<	500	0.1	300	<	300	<	600	<
Textile finishing, except wool	226	900	<	100	<	200	<	200	<	400	<
Carpets and rugs	227	800	<	100	<	100	<	200	<	400	<
Yarn and thread mills	228	600	<	100	<	<	<	200	<	200	<
Miscellaneous textile goods	229	1,400	<	200	<	200	<	600	<	500	<
Not allocated by detailed industry		900	<	<	<	300	<	400	<	300	<
Apparel and other textile products	23	4,300	0.1	1,000	0.2	1,000	<	1,000	0.1	1,300	0.1
Men's & boys' suits and coats	231	100	<	<	<	<	<	<	<	<	<
Men's & boys' furnishings	232	700	<	200	<	100	<	200	<	200	<
Women's and misses' outerwear	233	1,000	<	200	<	400	<	100	<	300	<
Women's and children's undergarments	234	100	<	<	<	<	<	<	<	<	<
Girls' and children's outerwear	236	<	<	<	<	<	<	<	<	<	<
Miscellaneous apparel and accessories	238	200	<	100	<	100	<	100	<	100	<
Misc. fabricated textile products	239	1,300	<	400	0.1	100	<	300	<	500	<
Not allocated by detailed industry		800	<	100	<	300	<	300	<	100	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Lumber and wood products	24	10,900	0.2	1,500	0.3	3,500	0.2	2,000	0.2	3,900	0.2
Logging	241	1,000	<	<	<	700	<	<	<	300	<
Sawmills and planing mills	242	1,900	<	200	<	1,100	0.1	200	<	400	<
Millwork, plywood & structural members	243	5,100	0.1	900	0.2	500	<	1,500	0.1	2,200	0.1
Wood containers	244	<	<	<	<	<	<	<	<	<	<
Wood buildings and mobile homes	245	900	<	200	<	<	<	100	<	600	<
Miscellaneous wood products	249	700	<	100	<	100	<	100	<	300	<
Not allocated by detailed industry		1,300	<	<	<	1,000	<	100	<	200	<
Furniture and fixtures	25	10,500	0.2	2,100	0.4	800	<	3,400	0.3	4,200	0.2
Household furniture	251	2,500	<	700	0.1	200	<	700	0.1	900	0.1
Office furniture	252	2,800	<	500	0.1	200	<	1,200	0.1	1,000	0.1
Public building & related furniture	253	1,700	<	500	0.1	100	<	600	<	600	<
Partitions and fixtures	254	2,000	<	300	0.1	100	<	500	<	1,100	0.1
Miscellaneous furniture and fixtures	259	700	<	200	<	100	<	300	<	200	<
Not allocated by detailed industry		800	<	<	<	100	<	200	<	400	<
Paper and allied products	26	22,300	0.4	2,700	0.5	4,100	0.2	9,200	0.7	6,300	0.4
Pulp mills	261	600	<	100	<	100	<	300	<	200	<
Paper mills	262	8,200	0.1	800	0.1	1,500	0.1	3,800	0.3	2,100	0.1
Paperboard mills	263	1,900	<	200	<	200	<	1,200	0.1	400	<
Paperboard containers and boxes	265	1,800	<	300	0.1	200	<	600	<	600	<
Misc. converted paper products	267	4,500	0.1	1,200	0.2	1,400	0.1	1,000	0.1	900	0.1
Not allocated by detailed industry		5,400	0.1	100	<	700	<	2,400	0.2	2,100	0.1
Printing and publishing	27	36,200	0.6	5,400	1.0	19,500	0.9	1,700	0.1	9,600	0.6
Newspapers	271	8,600	0.1	1,600	0.3	5,000	0.2	100	<	1,900	0.1
Periodicals	272	6,100	0.1	700	0.1	3,600	0.2	100	<	1,700	0.1
Books	273	3,700	0.1	800	0.1	2,000	0.1	200	<	700	<
Miscellaneous publishing	274	6,000	0.1	700	0.1	3,500	0.2	200	<	1,700	0.1
Commercial printing	275	5,500	0.1	1,100	0.2	1,900	0.1	500	<	2,000	0.1
Manifold business forms	276	800	<	100	<	300	<	<	<	400	<
Greeting cards	277	500	<	100	<	400	<	<	<	<	<
Blankbooks and bookbinding	278	800	<	100	<	400	<	100	<	200	<
Printing trade services	279	800	<	200	<	300	<	<	<	400	<
Not allocated by detailed industry		3,500	0.1	100	<	2,100	0.1	700	0.1	600	<
Chemicals and allied products	28	159,900	2.8	13,200	2.3	60,600	2.8	33,900	2.6	52,200	3.1
Industrial inorganic chemicals	281	12,500	0.2	1,200	0.2	3,000	0.1	4,700	0.4	3,600	0.2
Plastics materials and synthetics	282	20,900	0.4	1,400	0.2	4,700	0.2	7,200	0.6	7,700	0.5
Drugs	283	65,400	1.1	6,200	1.1	31,700	1.5	8,400	0.7	19,100	1.1
Soap, cleaners, and toilet goods	284	12,300	0.2	1,100	0.2	5,900	0.3	1,600	0.1	3,700	0.2
Paints and allied products	285	5,300	0.1	400	0.1	2,200	0.1	900	0.1	1,800	0.1
Industrial organic chemicals	286	23,800	0.4	1,800	0.3	6,200	0.3	6,200	0.5	9,600	0.6
Agricultural chemicals	287	5,000	0.1	300	0.1	1,300	0.1	1,900	0.1	1,500	0.1
Miscellaneous chemical products	289	10,900	0.2	900	0.2	3,000	0.1	2,500	0.2	4,500	0.3
Not allocated by detailed industry		3,800	0.1	<	<	2,600	0.1	500	<	600	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Petroleum and coal products	29	13,300	0.2	1,100	0.2	4,400	0.2	4,200	0.3	3,700	0.2
Petroleum refining	291	11,500	0.2	900	0.2	3,900	0.2	3,700	0.3	3,100	0.2
Asphalt paving and roofing materials	295	500	<	100	<	100	<	200	<	100	<
Misc. petroleum and coal products	299	900	<	<	<	300	<	200	<	400	<
Not allocated by detailed industry		500	<	<	<	100	<	300	<	100	<
Rubber and misc. plastics products	30	34,500	0.6	4,400	0.8	3,500	0.2	16,300	1.3	10,400	0.6
Tires and inner tubes	301	2,400	<	300	<	200	<	1,100	0.1	900	0.1
Hose & belting & gaskets & packing	305	3,100	0.1	300	0.1	200	<	1,600	0.1	900	0.1
Fabricated rubber products, n.e.c.	306	4,100	0.1	500	0.1	500	<	1,700	0.1	1,300	0.1
Miscellaneous plastics products, n.e.c.	308	24,400	0.4	3,300	0.6	2,400	0.1	11,700	0.9	7,100	0.4
Not allocated by detailed industry		500	<	<	<	100	<	200	<	200	<
Leather and leather products	31	700	<	100	<	200	<	100	<	200	<
Leather tanning and finishing	311	100	<	<	<	<	<	<	<	100	<
Footwear, except rubber	314	200	<	100	<	100	<	<	<	100	<
Luggage	316	100	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		300	<	100	<	100	<	<	<	<	<
Stone, clay and glass products	32	14,800	0.3	2,200	0.4	1,700	0.1	5,900	0.5	5,100	0.3
Flat glass	321	200	<	<	<	<	<	100	<	<	<
Glass and glassware, pressed or blown	322	2,900	0.1	400	0.1	200	<	1,200	0.1	1,100	0.1
Products of purchased glass	323	1,400	<	300	0.1	100	<	700	0.1	300	<
Cement, hydraulic	324	1,200	<	100	<	200	<	400	<	500	<
Structural clay products	325	300	<	100	<	<	<	100	<	100	<
Pottery and related products	326	800	<	200	<	<	<	500	<	200	<
Concrete, gypsum, and plaster products	327	3,700	0.1	600	0.1	300	<	1,400	0.1	1,400	0.1
Cut stone and stone products	328	<	<	<	<	<	<	<	<	<	<
Misc. nonmetallic mineral products	329	2,800	<	500	0.1	400	<	1,100	0.1	900	0.1
Not allocated by detailed industry		1,400	<	100	<	400	<	400	<	600	<
Primary metal industries	33	32,100	0.6	3,800	0.7	4,500	0.2	13,900	1.1	9,800	0.6
Blast furnace and basic steel products	331	9,300	0.2	1,000	0.2	1,600	0.1	3,900	0.3	2,900	0.2
Iron and steel foundries	332	4,400	0.1	600	0.1	400	<	2,500	0.2	800	<
Primary nonferrous metals	333	2,900	0.1	200	<	600	<	900	0.1	1,300	0.1
Secondary nonferrous metals	334	400	<	<	<	100	<	100	<	200	<
Nonferrous rolling and drawing	335	10,700	0.2	1,400	0.2	1,500	0.1	4,300	0.3	3,500	0.2
Nonferrous foundries (castings)	336	2,700	<	400	0.1	100	<	1,500	0.1	600	<
Miscellaneous primary metal products	339	900	<	200	<	<	<	500	<	200	<
Not allocated by detailed industry		1,000	<	100	<	200	<	300	<	400	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Fabricated metal products	34	67,500	1.2	9,400	1.7	4,800	0.2	28,200	2.2	25,100	1.5
Metal cans and shipping containers	341	1,300	<	300	<	100	<	600	<	200	<
Cutlery, hand tools, and hardware	342	4,600	0.1	800	0.1	400	<	2,100	0.2	1,400	0.1
Plumbing and heating, except electric	343	1,900	<	300	0.1	<	<	900	0.1	700	<
Fabricated structural metal products	344	24,300	0.4	3,200	0.6	1,300	0.1	8,100	0.6	11,700	0.7
Screw machine products, bolts, etc.	345	3,200	0.1	500	0.1	200	<	1,400	0.1	1,100	0.1
Metal forgings and stampings	346	10,000	0.2	1,500	0.3	600	<	5,000	0.4	2,900	0.2
Metal services, n.e.c.	347	3,000	0.1	400	0.1	400	<	1,400	0.1	900	0.1
Ordnance and accessories, n.e.c.	348	2,500	<	400	0.1	300	<	1,000	0.1	800	<
Misc. fabricated metal products	349	12,800	0.2	1,900	0.3	900	<	5,700	0.4	4,200	0.2
Not allocated by detailed industry		3,900	0.1	100	<	600	<	1,900	0.2	1,300	0.1
Industrial machinery and equipment	35	296,200	5.2	27,900	4.9	67,600	3.1	119,000	9.3	81,800	4.8
Engines and turbines	351	10,600	0.2	1,100	0.2	700	<	6,800	0.5	2,000	0.1
Farm and garden machinery	352	6,300	0.1	900	0.2	600	<	2,900	0.2	1,900	0.1
Construction and related machinery	353	28,100	0.5	3,200	0.6	1,500	0.1	15,300	1.2	8,100	0.5
Metalworking machinery	354	29,000	0.5	2,900	0.5	1,500	0.1	12,700	1.0	12,000	0.7
Special industry machinery	355	29,900	0.5	2,900	0.5	2,700	0.1	14,700	1.1	9,600	0.6
General industrial machinery	356	28,200	0.5	3,400	0.6	1,700	0.1	15,500	1.2	7,700	0.5
Computer and office equipment	357	123,500	2.2	9,400	1.7	55,200	2.5	34,600	2.7	24,300	1.4
Refrigeration and service machinery	358	15,800	0.3	1,700	0.3	800	<	7,700	0.6	5,500	0.3
Industrial machinery, n.e.c.	359	20,400	0.4	2,300	0.4	800	<	8,200	0.6	9,200	0.5
Not allocated by detailed industry		4,300	0.1	<	<	2,100	0.1	600	<	1,600	0.1
Electronic & other electric equipment	36	304,200	5.3	27,400	4.8	48,700	2.2	112,800	8.8	115,400	6.8
Electric distribution equipment	361	9,000	0.2	1,100	0.2	500	<	3,700	0.3	3,800	0.2
Electrical industrial apparatus	362	18,800	0.3	1,700	0.3	1,500	0.1	9,200	0.7	6,400	0.4
Household appliances	363	3,900	0.1	700	0.1	600	<	1,900	0.1	700	<
Electric lighting and wiring equipment	364	12,300	0.2	1,500	0.3	1,200	0.1	5,800	0.5	3,800	0.2
Household audio and video equipment	365	7,500	0.1	600	0.1	700	<	3,800	0.3	2,400	0.1
Communication equipment	366	71,500	1.3	6,200	1.1	20,900	1.0	24,900	1.9	19,600	1.2
Electronic components and accessories	367	159,400	2.8	14,100	2.5	20,900	1.0	55,900	4.3	68,600	4.0
Misc. electrical equipment & supplies	369	10,700	0.2	1,100	0.2	1,100	0.1	4,900	0.4	3,600	0.2
Not allocated by detailed industry		11,000	0.2	400	0.1	1,300	0.1	2,700	0.2	6,600	0.4
Transportation equipment	37	211,000	3.7	24,300	4.3	33,500	1.5	104,200	8.1	49,000	2.9
Motor vehicles and equipment	371	52,100	0.9	7,900	1.4	3,300	0.2	28,600	2.2	12,300	0.7
Aircraft and parts	372	115,600	2.0	11,200	2.0	23,600	1.1	53,800	4.2	27,000	1.6
Ship and boat building and repairing	373	2,300	<	900	0.2	200	<	900	0.1	300	<
Railroad equipment	374	1,900	<	300	0.1	100	<	900	0.1	600	<
Motorcycles, bicycles, and parts	375	1,400	<	200	<	<	<	1,000	0.1	300	<
Guided missiles, space vehicles, parts	376	29,600	0.5	3,400	0.6	5,500	0.3	16,400	1.3	4,300	0.3
Miscellaneous transportation equipment	379	2,000	<	300	<	100	<	900	0.1	800	<
Not allocated by detailed industry		6,100	0.1	100	<	700	<	1,700	0.1	3,500	0.2

See explanatory information and SOURCE at end of table.

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[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Instruments and related products	38	176,700	3.1	17,300	3.1	31,700	1.5	83,500	6.5	44,300	2.6
Search and navigation equipment	381	56,800	1.0	5,800	1.0	8,200	0.4	33,200	2.6	9,600	0.6
Measuring and controlling devices	382	76,600	1.3	7,400	1.3	16,100	0.7	32,300	2.5	20,800	1.2
Medical instruments and supplies	384	29,200	0.5	3,500	0.6	5,300	0.2	12,300	1.0	8,200	0.5
Ophthalmic goods	385	1,300	<	300	0.1	300	<	400	<	400	<
Photographic equipment and supplies	386	7,900	0.1	300	0.1	800	<	5,000	0.4	1,800	0.1
Watches, clocks, watchcases & parts	387	100	<	<	<	<	<	100	<	<	<
Not allocated by detailed industry		4,800	0.1	<	<	1,000	<	300	<	3,500	0.2
Miscellaneous manufacturing industries	39	11,000	0.2	1,800	0.3	2,500	0.1	3,100	0.2	3,600	0.2
Jewelry, silverware, and plated ware	391	400	<	100	<	100	<	100	<	100	<
Musical instruments	393	600	<	<	<	100	<	300	<	200	<
Toys and sporting goods	394	2,900	0.1	600	0.1	700	<	800	0.1	800	<
Pens, pencils, office, & art supplies	395	800	<	200	<	200	<	200	<	200	<
Costume jewelry and notions	396	100	<	<	<	<	<	<	<	<	<
Miscellaneous manufactures	399	5,400	0.1	800	0.1	1,300	0.1	1,400	0.1	1,900	0.1
Not allocated by detailed industry		800	<	<	<	100	<	300	<	400	<
Transportation, communications, and utilities		321,400	5.6	35,200	6.2	91,400	4.2	83,000	6.5	111,700	6.6
Railroad transportation	40	12,800	0.2	200	<	600	<	9,200	0.7	2,800	0.2
Railroad transportation	401	12,800	0.2	200	<	600	<	9,200	0.7	2,800	0.2
Local and interurban transit	41	700	<	200	<	100	<	<	<	500	<
Local and suburban transportation	411	400	<	100	<	100	<	<	<	200	<
Bus charter service	414	<	<	<	<	<	<	<	<	<	<
School buses	415	200	<	<	<	<	<	<	<	200	<
Not allocated by detailed industry		100	<	<	<	<	<	<	<	100	<
Trucking and warehousing	42	6,000	0.1	1,500	0.3	1,600	0.1	600	<	2,400	0.1
Trucking and courier services, excl. air	421	4,300	0.1	1,100	0.2	1,100	<	300	<	1,900	0.1
Public warehousing and storage	422	1,300	<	400	0.1	500	<	<	<	300	<
Trucking terminal facilities	423	100	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry		300	<	<	<	100	<	200	<	<	<
Water transportation	44	2,500	<	500	0.1	300	<	1,100	0.1	600	<
Deep sea foreign transportation of freight	441	600	<	200	<	100	<	<	<	300	<
Deep sea domestic transportation of freight	442	300	<	100	<	100	<	100	<	100	<
Water transportation of freight, n.e.c.	444	200	<	<	<	<	<	200	<	<	<
Water transportation of passengers	448	100	<	100	<	<	<	<	<	<	<
Water transportation services	449	800	<	100	<	<	<	500	<	200	<
Not allocated by detailed industry		600	<	100	<	200	<	300	<	100	<
Transportation by air	45	23,400	0.4	1,700	0.3	5,100	0.2	6,200	0.5	10,500	0.6
Air transportation, scheduled	451	19,400	0.3	1,400	0.2	4,400	0.2	5,300	0.4	8,300	0.5
Air transportation, nonscheduled	452	200	<	<	<	<	<	<	<	100	<
Airports, flying fields, and services	458	3,100	0.1	200	<	500	<	500	<	1,900	0.1
Not allocated by detailed industry		700	<	<	<	100	<	300	<	200	<
Pipelines, except natural gas	46	1,000	<	100	<	<	<	600	<	300	<
Pipelines, except natural gas	461	1,000	<	100	<	<	<	600	<	300	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Transportation services	47	8,400	0.1	1,300	0.2	2,800	0.1	700	0.1	3,700	0.2
Passenger transportation arrangements	472	3,600	0.1	600	0.1	1,900	0.1	200	<	900	0.1
Freight transportation arrangements	473	2,900	0.1	600	0.1	900	<	100	<	1,300	0.1
Rental of railroad cars	474	<	<	<	<	<	<	<	<	<	<
Misc. transportation services	478	1,500	<	<	<	<	<	200	<	1,300	0.1
Not allocated by detailed industry		500	<	100	<	<	<	200	<	200	<
Communications	48	181,400	3.2	21,200	3.7	63,800	2.9	35,700	2.8	60,700	3.6
Telephone communications	481	122,700	2.1	15,400	2.7	53,600	2.5	32,400	2.5	21,400	1.3
Telegraph and other communications	482	3,300	0.1	600	0.1	1,300	0.1	<	<	1,400	0.1
Radio and television broadcasting	483	37,300	0.7	2,700	0.5	2,400	0.1	1,100	0.1	31,100	1.8
Cable and other pay TV services	484	13,700	0.2	2,000	0.4	5,200	0.2	1,300	0.1	5,200	0.3
Communications services, n.e.c.	489	2,300	<	400	0.1	800	<	300	<	700	<
Not allocated by detailed industry		2,100	<	<	<	600	<	600	<	1,000	0.1
Utilities and sanitary services	49	85,100	1.5	8,700	1.5	17,100	0.8	29,100	2.3	30,300	1.8
Electric services	491	44,500	0.8	4,100	0.7	8,300	0.4	16,900	1.3	15,200	0.9
Gas production and distribution	492	7,500	0.1	1,000	0.2	1,700	0.1	2,000	0.2	2,700	0.2
Combination utility services	493	19,300	0.3	1,700	0.3	3,600	0.2	5,800	0.5	8,200	0.5
Water supply	494	1,000	<	300	0.1	200	<	200	<	300	<
Sanitary services	495	7,500	0.1	600	0.1	2,300	0.1	2,000	0.2	2,600	0.2
Steam and air-conditioning supply	496	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		5,300	0.1	900	0.2	1,000	<	2,100	0.2	1,300	0.1
Wholesale trade		277,400	4.9	30,100	5.3	75,900	3.5	66,100	5.1	105,300	6.2
Wholesale trade, durable goods	50	239,200	4.2	23,300	4.1	60,700	2.8	62,400	4.9	92,800	5.5
Motor vehicles, parts, and supplies	501	5,300	0.1	1,100	0.2	900	<	1,400	0.1	2,000	0.1
Furniture and homefurnishings	502	1,000	<	300	0.1	300	<	100	<	200	<
Lumber and construction materials	503	1,900	<	400	0.1	400	<	300	<	900	0.1
Professional and commercial equipment	504	128,800	2.3	12,000	2.1	48,000	2.2	19,200	1.5	49,700	2.9
Metals and minerals, except petroleum	505	1,800	<	400	0.1	400	<	400	<	600	<
Electrical goods	506	58,500	1.0	5,300	0.9	6,300	0.3	25,400	2.0	21,400	1.3
Hardware, plumbing, and heating equipment	507	5,400	0.1	600	0.1	500	<	2,300	0.2	2,000	0.1
Machinery, equipment, and supplies	508	28,500	0.5	2,600	0.5	2,600	0.1	11,500	0.9	11,800	0.7
Miscellaneous durable goods	509	3,000	0.1	600	0.1	500	<	400	<	1,500	0.1
Not allocated by detailed industry		5,000	0.1	100	<	900	<	1,400	0.1	2,600	0.2
Wholesale trade, nondurable goods	51	38,200	0.7	6,800	1.2	15,200	0.7	3,700	0.3	12,500	0.7
Paper and paper products	511	3,800	0.1	700	0.1	1,500	0.1	200	<	1,400	0.1
Drugs, proprietaries, and sundries	512	7,600	0.1	1,500	0.3	3,900	0.2	200	<	2,000	0.1
Apparel, piece goods, and notions	513	2,200	<	400	0.1	1,000	<	100	<	600	<
Groceries and related products	514	6,100	0.1	1,600	0.3	2,200	0.1	300	<	2,000	0.1
Farm-product raw materials	515	700	<	200	<	300	<	<	<	100	<
Chemicals and allied products	516	4,600	0.1	400	0.1	1,400	0.1	1,300	0.1	1,500	0.1
Petroleum and petroleum products	517	1,500	<	300	<	500	<	300	<	500	<
Beer, wine, and distilled beverages	518	700	<	300	0.1	300	<	<	<	100	<
Misc. nondurable goods	519	8,100	0.1	1,300	0.2	3,700	0.2	100	<	3,000	0.2
Not allocated by detailed industry		2,900	0.1	200	<	400	<	1,100	0.1	1,200	0.1

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000

[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Retail trade		54,600	1.0	9,800	1.7	25,000	1.2	4,300	0.3	15,500	0.9
Building materials and garden supplies	52	3,600	0.1	800	0.1	1,400	0.1	400	<	1,000	0.1
Lumber and other building materials	521	3,300	0.1	700	0.1	1,400	0.1	300	<	900	0.1
Hardware stores	525	100	<	<	<	<	<	<	<	<	<
Retail nurseries and garden stores	526	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		200	<	<	<	<	<	<	<	100	<
General merchandise stores	53	5,100	0.1	1,300	0.2	2,400	0.1	300	<	1,100	0.1
Department stores	531	4,800	0.1	1,300	0.2	2,300	0.1	300	<	1,000	0.1
Variety stores	533	100	<	<	<	<	<	<	<	100	<
Misc. general merchandise stores	539	100	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		100	<	<	<	100	<	<	<	<	<
Food stores	54	4,600	0.1	1,400	0.2	2,100	0.1	100	<	1,000	0.1
Grocery stores	541	4,400	0.1	1,300	0.2	2,100	0.1	100	<	1,000	0.1
Miscellaneous food stores	549	100	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry		100	<	<	<	<	<	<	<	<	<
Automotive dealers and service stations	55	4,400	0.1	1,000	0.2	1,300	0.1	1,300	0.1	800	<
New and used car dealers	551	2,400	<	600	0.1	400	<	1,200	0.1	200	<
Auto and home supply stores	553	400	<	200	<	100	<	<	<	100	<
Gasoline service stations	554	400	<	200	<	100	<	<	<	100	<
Boat dealers	555	<	<	<	<	<	<	<	<	<	<
Automotive dealers, n.e.c.	559	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		1,100	<	100	<	700	<	<	<	300	<
Apparel and accessory stores	56	2,800	<	700	0.1	700	<	<	<	1,300	0.1
Men's and boys' clothing stores	561	100	<	<	<	<	<	<	<	100	<
Women's clothing stores	562	400	<	100	<	200	<	<	<	100	<
Women's accessory and specialty stores	563	<	<	<	<	<	<	<	<	<	<
Family clothing stores	565	900	<	300	<	200	<	<	<	400	<
Shoe stores	566	1,000	<	300	<	100	<	<	<	600	<
Misc. apparel and accessory stores	569	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		400	<	100	<	300	<	<	<	<	<
Furniture and homefurnishings stores	57	17,800	0.3	1,800	0.3	8,600	0.4	1,500	0.1	6,000	0.4
Furniture and homefurnishings stores	571	1,000	<	300	0.1	200	<	<	<	500	<
Radio, television, and computer stores	573	16,000	0.3	1,400	0.3	8,300	0.4	700	0.1	5,500	0.3
Not allocated by detailed industry		900	<	<	<	<	<	800	0.1	<	<
Eating and drinking places	58	1,000	<	100	<	900	<	<	<	<	<
Eating and drinking places	581	1,000	<	100	<	900	<	<	<	<	<
Misc. retail stores	59	15,300	0.3	2,800	0.5	7,500	0.3	800	0.1	4,200	0.2
Drug stores and proprietary stores	591	700	<	200	<	300	<	<	<	200	<
Used merchandise stores	593	<	<	<	<	<	<	<	<	<	<
Miscellaneous shopping goods stores	594	4,500	0.1	900	0.2	2,600	0.1	100	<	1,000	0.1
Nonstore retailers	596	8,400	0.1	1,500	0.3	4,000	0.2	300	<	2,700	0.2
Fuel dealers	598	100	<	<	<	<	<	<	<	<	<
Retail stores, n.e.c.	599	700	<	200	<	200	<	100	<	200	<
Not allocated by detailed industry		1,000	<	100	<	400	<	400	<	100	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Finance, insurance, and real estate		298,000	5.2	41,900	7.4	186,200	8.6	6,900	0.5	63,100	3.7
Depository institutions	60	82,000	1.4	11,700	2.1	53,200	2.4	400	<	16,700	1.0
Central reserve depositories	601	2,600	<	200	<	2,100	0.1	<	<	200	<
Commercial banks	602	65,600	1.1	8,100	1.4	42,300	1.9	200	<	14,900	0.9
Savings institutions	603	4,500	0.1	1,200	0.2	2,600	0.1	<	<	800	<
Credit unions	606	3,900	0.1	1,400	0.2	2,200	0.1	<	<	300	<
Foreign banks and branches and agencies	608	700	<	300	<	200	<	<	<	100	<
Functions closely related to banking	609	2,900	0.1	600	0.1	2,000	0.1	<	<	300	<
Not allocated by detailed industry		1,900	<	<	<	1,600	0.1	200	<	<	<
Nondepository institutions	61	22,200	0.4	3,500	0.6	15,100	0.7	100	<	3,500	0.2
Federal and federally sponsored credit	611	1,100	<	100	<	800	<	<	<	200	<
Personal credit institutions	614	7,200	0.1	1,100	0.2	5,300	0.2	<	<	800	<
Business credit institutions	615	7,600	0.1	1,000	0.2	5,200	0.2	100	<	1,300	0.1
Mortgage bankers and brokers	616	6,100	0.1	1,200	0.2	3,800	0.2	<	<	1,200	0.1
Not allocated by detailed industry		200	<	100	<	100	<	<	<	<	<
Security and commodity brokers	62	41,900	0.7	5,800	1.0	24,800	1.1	200	<	11,100	0.7
Security brokers and dealers	621	29,700	0.5	4,000	0.7	16,800	0.8	100	<	8,900	0.5
Commodity contracts, brokers, and dealers	622	300	<	100	<	100	<	<	<	100	<
Security and commodity exchanges	623	200	<	<	<	200	<	<	<	<	<
Security and commodity services	628	10,600	0.2	1,700	0.3	7,300	0.3	<	<	1,600	0.1
Not allocated by detailed industry		1,100	<	<	<	500	<	100	<	500	<
Insurance carriers	63	106,100	1.9	12,000	2.1	69,100	3.2	1,900	0.2	23,000	1.4
Life insurance	631	38,300	0.7	4,900	0.9	25,200	1.2	500	<	7,700	0.5
Medical service and health insurance	632	32,400	0.6	3,400	0.6	22,500	1.0	100	<	6,400	0.4
Fire, marine, and casualty insurance	633	28,800	0.5	2,600	0.5	17,700	0.8	1,300	0.1	7,200	0.4
Surety insurance	635	1,600	<	200	<	900	<	<	<	400	<
Title insurance	636	1,400	<	400	0.1	700	<	<	<	400	<
Pension, health, and welfare funds	637	2,200	<	400	0.1	1,100	<	<	<	700	<
Insurance carriers, n.e.c.	639	100	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry		1,300	<	100	<	1,100	<	100	<	100	<
Insurance agents, brokers, and service	64	20,300	0.4	4,100	0.7	11,300	0.5	1,000	0.1	3,900	0.2
Insurance agents, brokers, and service	641	20,300	0.4	4,100	0.7	11,300	0.5	1,000	0.1	3,900	0.2
Real estate	65	10,100	0.2	1,900	0.3	3,500	0.2	2,300	0.2	2,400	0.1
Real estate operators and lessors	651	1,500	<	500	0.1	800	<	<	<	200	<
Real estate agents and managers	653	5,000	0.1	900	0.2	2,100	0.1	500	<	1,500	0.1
Title abstract offices	654	200	<	100	<	100	<	<	<	<	<
Subdividers and developers	655	1,000	<	100	<	200	<	300	<	500	<
Not allocated by detailed industry		2,400	<	300	0.1	300	<	1,500	0.1	300	<
Holding and other investment offices	67	15,500	0.3	2,800	0.5	9,200	0.4	1,000	0.1	2,500	0.1
Holding offices	671	7,600	0.1	1,600	0.3	4,400	0.2	700	0.1	1,000	0.1
Investment offices	672	1,600	<	400	0.1	1,100	0.1	<	<	200	<
Trusts	673	1,700	<	300	0.1	1,000	<	<	<	400	<
Misc. investing	679	3,100	0.1	600	0.1	1,600	0.1	100	<	900	0.1
Not allocated by detailed industry		1,500	<	<	<	1,200	0.1	200	<	100	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Services		2,472,100	43.2	225,900	40.0	1,160,300	53.4	363,600	28.3	722,300	42.6
Hotels and other lodging places	70	3,200	0.1	400	0.1	1,100	<	300	<	1,400	0.1
Hotels and motels	701	3,100	0.1	400	0.1	1,100	<	300	<	1,400	0.1
Not allocated by detailed industry		100	<	<	<	<	<	<	<	<	<
Personal services	72	1,100	<	100	<	300	<	<	<	700	<
Laundry, cleaning, and garment services	721	200	<	<	<	<	<	<	<	200	<
Photographic studios, portrait	722	<	<	<	<	<	<	<	<	<	<
Beauty shops	723	<	<	<	<	<	<	<	<	<	<
Funeral service and crematories	726	200	<	100	<	<	<	<	<	100	<
Misc. personal services	729	500	<	<	<	100	<	<	<	400	<
Not allocated by detailed industry		300	<	<	<	200	<	<	<	100	<
Business services	73	1,155,800	20.2	99,900	17.7	668,000	30.7	81,000	6.3	306,900	18.1
Advertising	731	14,700	0.3	1,900	0.3	9,600	0.4	200	<	3,000	0.2
Credit reporting and collection	732	2,400	<	600	0.1	1,100	<	<	<	700	<
Mailing, reproduction, and stenographic	733	9,300	0.2	900	0.2	5,400	0.2	200	<	2,700	0.2
Services to buildings	734	1,000	<	100	<	<	<	400	<	400	<
Misc. equipment rental and leasing	735	3,200	0.1	400	0.1	400	<	500	<	2,000	0.1
Personnel supply services	736	100,800	1.8	2,500	0.4	28,000	1.3	28,200	2.2	42,100	2.5
Computer and data processing services	737	986,500	17.3	88,900	15.7	610,400	28.1	46,400	3.6	240,800	14.2
Misc. business services	738	28,700	0.5	4,500	0.8	11,000	0.5	2,700	0.2	10,400	0.6
Not allocated by detailed industry		9,500	0.2	100	<	2,200	0.1	2,400	0.2	4,900	0.3
Auto repair, services, and parking	75	3,800	0.1	400	0.1	800	<	400	<	2,200	0.1
Automobile rentals, no drivers	751	1,600	<	400	0.1	200	<	200	<	800	<
Automobile repair shops	753	1,200	<	<	<	400	<	100	<	700	<
Automobile services, except repair	754	700	<	<	<	<	<	<	<	700	<
Not allocated by detailed industry		300	<	<	<	200	<	<	<	100	<
Misc. repair services	76	6,700	0.1	200	<	500	<	1,600	0.1	4,300	0.3
Electrical repair shops	762	3,400	0.1	<	<	200	<	700	0.1	2,400	0.1
Misc. repair shops	769	2,800	<	200	<	200	<	700	0.1	1,800	0.1
Not allocated by detailed industry		400	<	<	<	100	<	100	<	200	<
Motion pictures	78	22,200	0.4	2,500	0.4	4,100	0.2	1,600	0.1	14,000	0.8
Motion picture production and services	781	21,100	0.4	2,200	0.4	4,000	0.2	1,500	0.1	13,500	0.8
Motion picture distribution and services	782	400	<	100	<	100	<	<	<	200	<
Motion picture theaters	783	200	<	<	<	<	<	<	<	200	<
Video tape rental	784	100	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry		300	<	100	<	100	<	100	<	<	<
Amusement and recreation services	79	7,700	0.1	400	0.1	1,100	<	700	0.1	5,600	0.3
Producers, orchestras, and entertainers	792	3,100	0.1	100	<	200	<	<	<	2,800	0.2
Commercial sports	794	1,400	<	<	<	100	<	200	<	1,100	0.1
Misc. amusement, recreation services	799	2,900	0.1	300	0.1	700	<	300	<	1,600	0.1
Not allocated by detailed industry		400	<	<	<	100	<	200	<	100	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Health services	80	111,900	2.0	12,500	2.2	80,800	3.7	2,800	0.2	15,800	0.9
Offices and clinics of medical doctors	801	16,100	0.3	1,900	0.3	13,900	0.6	200	<	100	<
Offices and clinics of dentists	802	100	<	<	<	<	<	<	<	<	<
Offices of other health practitioners	804	8,400	0.1	100	<	8,300	0.4	<	<	<	<
Nursing and personal care facilities	805	1,500	<	500	0.1	1,000	<	<	<	<	<
Hospitals	806	66,300	1.2	7,900	1.4	45,800	2.1	2,000	0.2	10,600	0.6
Medical and dental laboratories	807	6,000	0.1	800	0.1	2,900	0.1	100	<	2,200	0.1
Home health care services	808	1,100	<	400	0.1	400	<	<	<	300	<
Health and allied services, n.e.c.	809	7,700	0.1	800	0.1	6,300	0.3	<	<	600	<
Not allocated by detailed industry		4,800	0.1	100	<	2,200	0.1	500	<	2,000	0.1
Legal services	81	11,200	0.2	3,000	0.5	7,300	0.3	<	<	900	0.1
Legal services	811	11,200	0.2	3,000	0.5	7,300	0.3	<	<	900	0.1
Educational services	82	120,200	2.1	12,900	2.3	82,600	3.8	200	<	24,500	1.4
Elementary and secondary schools	821	54,600	1.0	1,100	0.2	48,700	2.2	<	<	4,900	0.3
Colleges, universities, and professional	822	59,800	1.0	11,100	2.0	30,700	1.4	<	<	18,000	1.1
Libraries	823	300	<	100	<	200	<	<	<	<	<
Vocational schools	824	2,800	<	300	0.1	1,800	0.1	100	<	600	<
Schools and educational services, n.e.c.	829	2,300	<	400	0.1	1,100	<	<	<	900	0.1
Not allocated by detailed industry		300	<	<	<	100	<	100	<	100	<
Social services	83	22,900	0.4	2,400	0.4	18,800	0.9	<	<	1,700	0.1
Individual and family services	832	11,700	0.2	800	0.1	10,300	0.5	<	<	600	<
Job training and related services	833	1,700	<	300	0.1	1,000	<	<	<	300	<
Child day care services	835	500	<	100	<	300	<	<	<	100	<
Residential care	836	5,300	0.1	400	0.1	4,600	0.2	<	<	300	<
Social services, n.e.c.	839	2,800	<	600	0.1	1,800	0.1	<	<	400	<
Not allocated by detailed industry		1,000	<	100	<	900	<	<	<	100	<
Museums, botanical, zoological gardens	84	2,100	<	300	0.1	1,200	0.1	100	<	500	<
Museums and art galleries	841	900	<	200	<	200	<	100	<	400	<
Botanical and zoological gardens	842	1,100	<	100	<	900	<	<	<	100	<
Not allocated by detailed industry		100	<	<	<	100	<	<	<	<	<
Membership organizations	86	14,100	0.2	2,900	0.5	7,700	0.4	300	<	3,200	0.2
Business associations	861	3,600	0.1	900	0.2	2,000	0.1	<	<	700	<
Professional organizations	862	2,500	<	700	0.1	1,100	0.1	<	<	800	<
Labor organizations	863	900	<	200	<	500	<	<	<	200	<
Civic and social associations	864	1,600	<	500	0.1	700	<	<	<	400	<
Political organizations	865	200	<	100	<	100	<	<	<	<	<
Religious organizations	866	600	<	<	<	400	<	<	<	200	<
Membership organizations, n.e.c.	869	800	<	<	<	700	<	<	<	200	<
Not allocated by detailed industry		3,900	0.1	600	0.1	2,400	0.1	300	<	700	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,
by detailed industry of employment: 2000
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Engineering and management services	87	977,100	17.1	87,200	15.4	277,100	12.7	273,700	21.3	339,000	20.0
Engineering and architectural services	871	554,200	9.7	47,100	8.3	62,100	2.9	213,800	16.6	231,200	13.6
Accounting, auditing, and bookkeeping	872	27,300	0.5	4,400	0.8	18,800	0.9	300	<	3,800	0.2
Research and testing services	873	231,100	4.0	19,700	3.5	110,900	5.1	34,800	2.7	65,700	3.9
Management and public relations	874	153,100	2.7	16,100	2.8	78,200	3.6	23,700	1.8	35,100	2.1
Not allocated by detailed industry		11,400	0.2	<	<	7,200	0.3	1,000	0.1	3,200	0.2
Services, n.e.c.	89	12,200	0.2	700	0.1	8,900	0.4	1,100	0.1	1,500	0.1
Services, n.e.c.	899	12,200	0.2	700	0.1	8,900	0.4	1,100	0.1	1,500	0.1
Public administration		632,700	11.1	56,000	9.9	281,000	12.9	134,700	10.5	160,900	9.5
Federal, state, and local government	90	632,700	11.1	56,000	9.9	281,000	12.9	134,700	10.5	160,900	9.5
Federal government	901	265,600	4.6	32,100	5.7	128,700	5.9	63,200	4.9	41,600	2.5
State government	902	191,500	3.3	10,600	1.9	80,100	3.7	39,400	3.1	61,400	3.6
Local government	903	174,100	3.0	13,300	2.4	71,800	3.3	31,200	2.4	57,800	3.4
Not allocated by detailed industry		1,500	<	<	<	500	<	900	0.1	100	<
Not allocated by industry		80,100	1.4	800	0.1	35,000	1.6	17,300	1.3	27,000	1.6

KEY: < = The estimated actual value is less than 50 for numbers and less than 0.05 for percentages.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals. Two-digit SIC information incorporates information on all 3-digit industries, including those 3-digit industries not displayed separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 2. Employed scientists, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total		2,173,600	192,100	93,400	123,000	283,500	1,481,700
Agriculture, forestry, and fishing		700	<	<	600	<	100
Agricultural services	07	700	<	<	600	<	100
Mining		7,100	5,900	200	<	200	900
Metal mining	10	400	400	<	<	<	<
Coal mining	12	100	100	<	<	<	<
Oil and gas extraction	13	6,200	5,100	200	<	200	800
Nonmetallic minerals, except fuels	14	400	200	<	<	<	100
Construction		4,800	200	<	<	400	4,200
General building contractors	15	900	<	<	<	200	700
Heavy construction, excluding building	16	500	<	<	<	<	500
Special trade contractors	17	3,400	200	<	<	200	3,000
Total manufacturing		306,300	52,600	10,800	19,300	15,700	207,800
Food and kindred products	20	12,300	2,900	100	2,600	600	6,000
Tobacco products	21	600	<	<	<	<	600
Textile mill products	22	1,100	400	<	<	100	600
Apparel and other textile products	23	1,000	<	<	<	<	1,000
Lumber and wood products	24	3,500	<	<	2,000	100	1,300
Furniture and fixtures	25	800	<	<	<	100	800
Paper and allied products	26	4,100	1,400	200	400	<	2,100
Printing and publishing	27	19,500	<	200	<	3,500	15,900
Chemicals and allied products	28	60,600	36,800	900	13,900	1,000	8,000
Petroleum and coal products	29	4,400	1,600	<	<	100	2,700
Rubber and misc. plastics products	30	3,500	1,400	<	<	200	2,000
Leather and leather products	31	200	<	<	<	100	200
Stone, clay and glass products	32	1,700	600	<	<	100	1,000
Primary metal industries	33	4,500	1,400	300	<	100	2,800
Fabricated metal products	34	4,800	800	<	<	300	3,600
Industrial machinery and equipment	35	67,600	600	1,000	<	3,700	62,400
Electronic & other electric equipment	36	48,700	800	400	<	3,300	44,200
Transportation equipment	37	33,500	800	7,100	<	700	24,800
Instruments and related products	38	31,700	2,900	700	400	1,700	26,000
Miscellaneous manufacturing industries	39	2,500	200	<	<	200	2,100
Transportation, communications, and utilities		91,400	4,300	3,800	300	8,800	74,200
Railroad transportation	40	600	<	<	<	<	600
Local and interurban transit	41	100	<	<	<	<	100
Trucking and warehousing	42	1,600	<	100	<	200	1,300
Water transportation	44	300	<	100	<	100	200
Transportation by air	45	5,100	200	700	<	500	3,700
Pipelines, except natural gas	46	<	<	<	<	<	<
Transportation services	47	2,800	<	200	<	300	2,300
Communications	48	63,800	600	2,000	<	5,500	55,800
Utilities and sanitary services	49	17,100	3,500	800	300	2,300	10,200

See explanatory information and SOURCE at end of table.

Table 2. Employed scientists, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Wholesale trade		75,900	2,100	1,900	3,000	8,500	60,300
Wholesale trade, durable goods	50	60,700	300	1,600	<	6,100	52,700
Wholesale trade, nondurable goods	51	15,200	1,800	300	3,000	2,500	7,600
Retail trade		25,000	<	200	<	2,900	21,900
Building materials and garden supplies	52	1,400	<	<	<	<	1,400
General merchandise stores	53	2,400	<	100	<	300	2,000
Food stores	54	2,100	<	<	<	200	1,900
Automotive dealers and service stations	55	1,300	<	<	<	200	1,200
Apparel and accessory stores	56	700	<	<	<	200	600
Furniture and homefurnishings stores	57	8,600	<	<	<	300	8,300
Eating and drinking places	58	900	<	<	<	100	800
Misc. retail stores	59	7,500	<	100	<	1,700	5,700
Finance, insurance, and real estate		186,200	400	18,500	200	20,300	146,800
Depository institutions	60	53,200	<	3,100	<	4,700	45,300
Nondepository institutions	61	15,100	<	700	<	2,000	12,300
Security and commodity brokers	62	24,800	<	1,400	<	4,100	19,400
Insurance carriers	63	69,100	<	11,100	100	5,800	52,100
Insurance agents, brokers, and service	64	11,300	<	1,300	<	1,600	8,400
Real estate	65	3,500	<	<	<	1,000	2,400
Holding and other investment offices	67	9,200	400	800	100	1,100	6,900
Services		1,160,300	67,500	39,800	46,400	161,700	845,000
Hotels and other lodging places	70	1,100	<	<	<	100	1,000
Personal services	72	300	<	<	<	100	200
Business services	73	668,000	2,100	13,500	400	17,700	634,400
Auto repair, services, and parking	75	800	<	<	<	100	700
Misc. repair services	76	500	<	<	<	100	500
Motion pictures	78	4,100	<	<	<	100	4,100
Amusement and recreation services	79	1,100	<	<	<	400	600
Health services	80	80,800	1,400	1,000	14,500	37,100	26,800
Legal services	81	7,300	<	<	<	100	7,200
Educational services	82	82,600	<	2,700	<	40,400	39,600
Social services	83	18,800	100	200	<	15,600	3,000
Museums, botanical, zoological gardens	84	1,200	<	<	900	200	200
Membership organizations	86	7,700	400	700	600	2,800	3,200
Engineering and management services	87	277,100	59,100	18,600	29,900	46,700	122,900
Services, n.e.c.	89	8,900	4,300	3,100	200	500	800

See explanatory information and SOURCE at end of table.

Table 2. Employed scientists, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration		281,000	54,300	15,400	49,400	53,500	108,400
Federal, state, and local government	90	281,000	54,300	15,400	49,400	53,500	108,400
Not allocated by industry		35,000	4,900	2,800	3,800	11,500	12,000

KEY: < = The estimated actual value is less than 50.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 3. Employed engineers, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronautical	Civil	Computer	Electrical/ electronics	Industrial	Mechanical	Sales	Other
Total		1,285,800	71,600	207,100	63,700	286,100	171,800	207,300	88,200	190,000
Agriculture, forestry, and fishing		300	<	100	<	<	<	100	<	100
Agricultural services	07	300	<	100	<	<	<	100	<	100
Mining		15,500	<	900	<	600	1,000	1,000	900	11,100
Metal mining	10	1,200	<	<	<	<	100	100	<	1,100
Coal mining	12	1,000	<	<	<	<	<	<	<	900
Oil and gas extraction	13	12,400	<	800	<	400	900	800	900	8,500
Nonmetallic minerals, except fuels	14	900	<	100	<	<	100	100	<	600
Construction		40,900	<	19,700	100	6,100	2,300	4,700	4,100	4,100
General building contractors	15	10,200	<	6,900	<	300	800	900	300	1,100
Heavy construction, excluding building	16	14,100	<	8,800	<	1,400	1,000	1,100	200	1,600
Special trade contractors	17	16,700	<	4,000	100	4,300	600	2,700	3,600	1,400
Total manufacturing		553,200	50,100	4,400	26,000	124,500	127,800	121,900	32,400	66,100
Food and kindred products	20	8,500	<	<	<	100	4,900	1,800	100	1,700
Tobacco products	21	<	<	<	<	<	<	<	<	<
Textile mill products	22	2,300	<	<	<	<	1,400	400	100	400
Apparel and other textile products	23	1,000	<	<	<	<	700	200	<	<
Lumber and wood products	24	2,000	<	100	<	<	1,100	400	300	100
Furniture and fixtures	25	3,400	<	<	<	<	2,100	1,000	200	200
Paper and allied products	26	9,200	<	200	<	1,100	3,800	1,800	300	2,200
Printing and publishing	27	1,700	<	<	100	200	700	300	200	300
Chemicals and allied products	28	33,900	<	500	200	1,600	5,000	4,100	1,500	21,000
Petroleum and coal products	29	4,200	<	300	<	200	1,000	400	200	2,200
Rubber and misc. plastics products	30	16,300	<	100	<	800	6,800	4,500	1,500	2,500
Leather and leather products	31	100	<	<	<	<	100	<	<	<
Stone, clay and glass products	32	5,900	<	500	<	600	1,300	1,300	600	1,600
Primary metal industries	33	13,900	<	100	<	1,300	4,400	3,000	700	4,400
Fabricated metal products	34	28,200	<	1,000	300	2,200	8,800	10,300	2,000	3,700
Industrial machinery and equipment	35	119,000	200	400	11,200	24,500	23,000	43,300	10,600	5,800
Electronic & other electric equipment	36	112,800	300	500	9,200	49,800	22,400	16,100	7,800	6,600
Transportation equipment	37	104,200	43,600	400	900	6,300	26,800	18,700	2,000	5,600
Instruments and related products	38	83,500	6,000	300	4,100	35,200	12,800	13,500	4,100	7,400
Miscellaneous manufacturing industries	39	3,100	<	100	100	700	800	900	200	400

See explanatory information and SOURCE at end of table.

Table 3. Employed engineers, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronautical	Civil	Computer	Electrical/ electronics	Industrial	Mechanical	Sales	Other
Transportation, communications, and utilities		83,000	5,000	3,400	6,100	35,000	4,300	2,400	3,900	22,900
Railroad transportation	40	9,200	<	200	<	<	<	<	<	9,000
Trucking and warehousing	42	600	<	<	<	<	200	<	200	200
Water transportation	44	1,100	<	<	<	<	<	<	<	1,100
Transportation by air	45	6,200	5,000	100	<	100	500	100	100	300
Pipelines, except natural gas	46	600	<	200	<	100	100	100	<	200
Transportation services	47	700	<	<	200	<	100	100	<	300
Communications	48	35,700	<	400	5,800	24,500	1,300	200	3,200	300
Utilities and sanitary services	49	29,100	<	2,600	100	10,300	2,100	1,900	500	11,600
Wholesale trade		66,100	400	300	3,100	23,500	3,300	8,600	24,600	2,300
Wholesale trade, durable goods	50	62,400	400	300	3,000	23,200	2,700	8,200	23,200	1,400
Wholesale trade, nondurable goods	51	3,700	<	<	200	300	500	400	1,300	900
Retail trade		4,300	<	<	<	300	700	100	3,100	<
Building materials and garden supplies	52	400	<	<	<	<	100	<	300	<
General merchandise stores	53	300	<	<	<	<	200	<	<	<
Food stores	54	100	<	<	<	<	100	<	<	<
Automotive dealers and service stations	55	1,300	<	<	<	<	<	<	1,300	<
Furniture and homefurnishings stores	57	1,500	<	<	<	200	<	<	1,300	<
Misc. retail stores	59	800	<	<	<	100	300	100	300	<
Finance, insurance, and real estate		6,900	<	1,400	300	900	500	1,100	200	2,500
Depository institutions	60	400	<	<	<	400	<	<	<	<
Nondepository institutions	61	100	<	<	100	<	<	<	<	<
Security and commodity brokers	62	200	<	<	<	200	<	<	<	<
Insurance carriers	63	1,900	<	<	100	<	400	100	<	1,300
Insurance agents, brokers, and service	64	1,000	<	<	<	<	<	<	<	1,000
Real estate	65	2,300	<	1,200	<	<	<	900	100	<
Holding and other investment offices	67	1,000	<	100	<	400	100	100	100	200
Services		363,600	8,800	114,800	24,800	65,400	27,300	55,900	18,300	48,400
Hotels and other lodging places	70	300	<	<	<	100	<	100	100	<
Personal services	72	<	<	<	<	<	<	<	<	<
Business services	73	81,000	2,300	2,200	17,400	12,700	16,300	16,100	12,900	1,000
Auto repair, services, and parking	75	400	<	<	<	100	100	100	200	<
Misc. repair services	76	1,600	<	<	100	1,400	<	<	<	<
Motion pictures	78	1,600	<	<	<	400	1,000	<	100	<
Amusement and recreation services	79	700	<	100	<	100	<	300	<	200
Health services	80	2,800	<	200	<	100	100	100	100	2,300
Educational services	82	200	<	<	<	<	<	<	200	<
Social services	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens	84	100	<	<	<	<	<	<	<	100
Membership organizations	86	300	<	200	<	<	<	<	<	100
Engineering and management services	87	273,700	6,500	111,700	7,100	50,500	9,800	39,200	4,600	44,300
Services, n.e.c.	89	1,100	<	300	<	<	<	100	100	500

See explanatory information and SOURCE at end of table.

Table 3. Employed engineers, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronautical	Civil	Computer	Electrical/ electronics	Industrial	Mechanical	Sales	Other
Public administration		134,700	6,800	60,500	2,300	27,600	1,500	10,300	<	25,800
Federal, state, and local government	90	134,700	6,800	60,500	2,300	27,600	1,500	10,300	<	25,800
Not allocated by industry		17,300	300	1,500	1,000	2,300	3,100	1,400	800	6,800

KEY: < = The estimated actual value is less than 50.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 4. Employed technicians, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science[1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Total		1,694,300	553,200	200,700	194,200	746,200	285,300	58,500	89,200	313,100
Agriculture, forestry, and fishing		3,200	<	1,400	1,700	<	<	<	<	<
Agricultural services	07	3,200	<	1,400	1,700	<	<	<	<	<
Mining		12,700	1,300	500	6,600	4,300	1,100	600	200	2,400
Metal mining	10	900	<	<	500	400	100	<	100	300
Coal mining	12	600	<	<	300	300	<	<	<	300
Oil and gas extraction	13	10,500	1,200	500	5,400	3,400	1,100	600	100	1,600
Nonmetallic minerals, except fuels	14	700	100	<	400	200	<	<	<	200
Construction		30,300	2,100	14,400	100	13,800	4,600	1,500	2,400	5,400
General building contractors	15	7,200	500	4,800	<	1,900	100	100	800	900
Heavy construction, excluding building	16	5,400	400	1,000	<	4,000	200	100	1,000	2,700
Special trade contractors	17	17,800	1,100	8,700	100	7,900	4,300	1,300	600	1,800
Total manufacturing		442,400	75,400	66,300	67,200	233,600	125,400	35,500	800	71,900
Food and kindred products	20	12,900	1,700	200	8,700	2,300	200	800	<	1,300
Tobacco products	21	600	400	<	300	<	<	<	<	<
Textile mill products	22	2,900	1,000	<	1,000	1,000	100	200	<	700
Apparel and other textile products	23	1,300	800	100	100	400	<	100	<	300
Lumber and wood products	24	3,900	800	1,400	600	1,100	100	200	<	800
Furniture and fixtures	25	4,200	1,400	1,100	100	1,600	<	300	<	1,300
Paper and allied products	26	6,300	1,100	400	1,200	3,500	600	700	<	2,200
Printing and publishing	27	9,600	7,500	<	<	2,000	500	<	<	1,500
Chemicals and allied products	28	52,200	2,700	900	40,800	7,700	2,000	1,900	<	3,900
Petroleum and coal products	29	3,700	600	100	2,800	300	<	<	<	300
Rubber and misc. plastics products	30	10,400	2,000	1,000	1,900	5,500	1,300	1,600	<	2,600
Leather and leather products	31	200	100	<	100	<	<	<	<	<
Stone, clay and glass products	32	5,100	500	800	1,200	2,600	1,000	300	300	1,000
Primary metal industries	33	9,800	1,500	1,500	2,400	4,400	1,600	1,500	<	1,300
Fabricated metal products	34	25,100	5,200	11,300	900	7,800	1,900	2,400	100	3,400
Industrial machinery and equipment	35	81,800	27,300	21,600	1,300	31,600	14,900	8,500	<	8,100
Electronic & other electric equipment	36	115,400	8,800	11,300	1,000	94,300	73,100	8,100	200	12,900
Transportation equipment	37	49,000	6,200	7,600	1,900	33,300	6,800	4,800	<	21,800
Instruments and related products	38	44,300	4,800	5,600	1,000	32,800	20,600	3,700	200	8,300
Miscellaneous manufacturing industries	39	3,600	800	1,400	100	1,300	700	300	<	300

See explanatory information and SOURCE at end of table.

Table 4. Employed technicians, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science[1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Transportation, communications, and utilities		111,700	13,600	5,200	5,600	87,400	29,000	900	3,400	54,100
Railroad transportation	40	2,800	100	<	<	2,700	200	<	<	2,500
Local and interurban transit	41	500	100	<	<	400	<	<	<	400
Trucking and warehousing	42	2,400	1,600	<	<	800	<	<	<	800
Water transportation	44	600	400	<	<	300	<	<	<	300
Transportation by air	45	10,500	1,200	<	<	9,200	500	100	<	8,700
Pipelines, except natural gas	46	300	100	<	<	200	200	<	<	<
Transportation services	47	3,700	2,000	<	<	1,700	100	<	<	1,600
Communications	48	60,700	4,400	1,300	<	55,000	19,500	100	1,800	33,600
Utilities and sanitary services	49	30,300	3,800	3,900	5,500	17,100	8,500	700	1,600	6,300
Wholesale trade		105,300	48,600	4,000	3,500	49,200	44,400	2,200	<	2,600
Wholesale trade, durable goods	50	92,800	41,400	3,900	400	47,100	42,800	2,100	<	2,100
Wholesale trade, nondurable goods	51	12,500	7,300	100	3,000	2,100	1,500	100	<	500
Retail trade		15,500	12,800	1,400	<	1,200	500	300	<	500
Building materials and garden supplies	52	1,000	200	800	<	<	<	<	<	<
General merchandise stores	53	1,100	700	100	<	300	100	200	<	<
Food stores	54	1,000	900	100	<	100	<	<	<	100
Automotive dealers and service stations	55	800	400	<	<	400	100	<	<	300
Apparel and accessory stores	56	1,300	1,200	200	<	<	<	<	<	<
Furniture and homefurnishings stores	57	6,000	5,500	300	<	200	200	<	<	100
Eating and drinking places	58	<	<	<	<	<	<	<	<	<
Misc. retail stores	59	4,200	3,900	100	<	300	200	<	<	100
Finance, insurance, and real estate		63,100	60,600	300	700	1,500	300	100	200	900
Depository institutions	60	16,700	16,700	<	<	<	<	<	<	<
Nondepository institutions	61	3,500	3,500	<	<	<	<	<	<	<
Security and commodity brokers	62	11,100	11,100	<	<	<	<	<	<	<
Insurance carriers	63	23,000	22,300	<	300	400	<	<	<	400
Insurance agents, brokers, and service	64	3,900	3,800	<	<	100	<	<	<	100
Real estate	65	2,400	1,400	300	<	700	300	100	100	200
Holding and other investment offices	67	2,500	1,900	<	300	300	100	<	100	200

See explanatory information and SOURCE at end of table.

Table 4. Employed technicians, by broad industry group of employment
and detailed occupation: 2000
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science[1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Services		722,300	320,400	97,500	59,300	245,100	56,300	16,200	40,100	132,500
Hotels and other lodging places	70	1,400	200	<	<	1,200	200	<	<	1,000
Personal services	72	700	700	<	<	<	<	<	<	<
Business services	73	306,900	250,800	10,000	2,200	44,000	24,600	3,300	100	16,100
Auto repair, services, and parking	75	2,200	1,200	100	<	900	200	<	<	700
Misc. repair services	76	4,300	300	400	<	3,700	3,500	<	<	200
Motion pictures	78	14,000	1,400	<	<	12,700	1,200	<	<	11,500
Amusement and recreation services	79	5,600	800	<	<	4,800	700	<	<	4,000
Health services	80	15,800	9,200	100	5,100	1,300	500	200	100	600
Legal services	81	900	900	<	<	<	<	<	<	<
Educational services	82	24,500	18,300	<	100	6,100	<	<	<	6,100
Social services	83	1,700	1,700	<	100	<	<	<	<	<
Museums, botanical, zoological gardens	84	500	200	<	<	300	<	<	<	300
Membership organizations	86	3,200	2,200	100	400	500	<	<	<	500
Engineering and management services	87	339,000	32,200	86,800	50,700	169,300	25,400	12,700	39,900	91,300
Services, n.e.c.	89	1,500	400	100	700	400	100	<	100	200
Public administration		160,900	17,700	6,100	41,400	95,700	21,700	400	38,100	35,600
Federal, state, and local government	90	160,900	17,700	6,100	41,400	95,700	21,700	400	38,100	35,600
Not allocated by industry		27,000	800	3,700	8,200	14,300	2,200	900	4,000	7,300

[1]The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = The estimated actual value is less than 50.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Crop services (SIC 0720)			
Scientific and technical personnel	600	0.5	(nc)
Scientists	200	0.2	(nc)
Life scientists	200	0.2	(nc)
Agricultural scientists	200	0.2	19
Engineers	100	0.1	(nc)
Mechanical	40	<	30
Other engineers	60	0.1	(nc)
Agricultural	60	0.1	22
Technicians	300	0.2	(nc)
Physical and life science technicians	300	0.2	(nc)
Agricultural and food science technicians	300	0.2	39
Animal services, except veterinary (SIC 0750)			
Scientific and technical personnel	1,410	2.4	(nc)
Scientists	110	0.2	(nc)
Life scientists	110	0.2	(nc)
Agricultural scientists	110	0.2	29
Technicians	1,300	2.2	(nc)
Physical and life science technicians	1,300	2.2	(nc)
Agricultural and food science technicians	1,270	2.2	28
Biological technicians	30	0.1	39
Farm labor and management services (SIC 0760)			
Scientific and technical personnel	40	<	(nc)
Scientists	40	<	(nc)
Life scientists	40	<	(nc)
Agricultural scientists	40	<	16
Landscape and horticultural services (SIC 0780)			
Scientific and technical personnel	1,770	0.3	(nc)
Scientists	230	<	(nc)
Life scientists	230	<	(nc)
Agricultural scientists	230	<	32
Engineers	140	<	(nc)
Civil	140	<	26
Technicians	1,400	0.3	(nc)
Drafters	1,400	0.3	(nc)
Architectural and civil drafters	1,400	0.3	42

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Iron ores (SIC 1010)			
Scientific and technical personnel	130	1.7	(nc)
Engineers	130	1.7	(nc)
Other engineers	130	1.7	(nc)
Environmental	30	0.4	36
Mining and geological	100	1.3	36
Copper ores (SIC 1020)			
Scientific and technical personnel	310	3.0	(nc)
Managers of scientific and technical personnel	60	0.6	(nc)
Engineering managers	60	0.6	1
Engineers	220	2.1	(nc)
Mechanical	40	0.4	10
Other engineers	180	1.7	(nc)
Chemical	40	0.4	20
Environmental	40	0.4	17
Mining and geological	100	1.0	12
Technicians	30	0.3	(nc)
Surveying, cartographic, photogrammetric, and mapping technicians	30	0.3	(nc)
Surveying and mapping technicians	30	0.3	37
Gold and silver ores (SIC 1040)			
Scientific and technical personnel	1,120	9.8	(nc)
Managers of scientific and technical personnel	70	0.6	(nc)
Engineering managers	70	0.6	14
Scientists	200	1.8	(nc)
Physical scientists	200	1.8	(nc)
Geoscientists, except hydrologists and geographers	200	1.8	10
Engineers	390	3.4	(nc)
Other engineers	390	3.4	(nc)
Environmental	60	0.5	21
Metallurgical/metallurgists	40	0.4	15
Mining and geological	290	2.5	11
Technicians	460	4.0	(nc)
Engineering technicians	100	0.9	(nc)
Civil engineering technicians	40	0.4	19
Environmental engineering technicians	60	0.5	17
Physical and life science technicians	270	2.4	(nc)
Chemical technicians, except health	270	2.4	10
Surveying, cartographic, photogrammetric, and mapping technicians	90	0.8	(nc)
Surveying and mapping technicians	30	0.3	14
Surveyors	60	0.5	14

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metal mining services (SIC 1080)			
Scientific and technical personnel	60	2.4	(nc)
Scientists	60	2.4	(nc)
Physical scientists	60	2.4	(nc)
Geoscientists, except hydrologists and geographers	60	2.4	20
Bituminous coal and lignite mining (SIC 1220)			
Scientific and technical personnel	1,860	2.7	(nc)
Managers of scientific and technical personnel	240	0.3	(nc)
Computer and information systems managers	50	0.1	35
Engineering managers	190	0.3	13
Scientists	60	0.1	(nc)
Computer scientists	30	<	(nc)
Network and computer systems administrators	30	<	32
Physical scientists	30	<	(nc)
Environmental scientists and specialists, including health	30	<	16
Engineers	950	1.4	(nc)
Electrical/electronics	40	0.1	(nc)
Electrical	40	0.1	23
Other engineers	910	1.3	(nc)
Environmental	120	0.2	16
Mining and geological	790	1.1	10
Technicians	610	0.9	(nc)
Engineering technicians	30	<	(nc)
Environmental engineering technicians	30	<	31
Physical and life science technicians	280	0.4	(nc)
Chemical technicians, except health	50	0.1	28
Environmental science and protection technicians, including health	130	0.2	35
Geological and petroleum technicians	100	0.1	31
Surveying, cartographic, photogrammetric, and mapping technicians	300	0.4	(nc)
Surveying and mapping technicians	140	0.2	38
Surveyors	160	0.2	11
Crude petroleum and natural gas (SIC 1310)			
Scientific and technical personnel	19,000	15.4	(nc)
Managers of scientific and technical personnel	1,510	1.2	(nc)
Computer and information systems managers	210	0.2	20
Engineering managers	1,120	0.9	13
Natural sciences managers	180	0.2	15

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Crude petroleum and natural gas (SIC 1310) -- continued:			
Scientists	4,310	3.5	(nc)
Computer scientists	510	0.4	(nc)
Computer systems analysts	420	0.3	21
Network and computer systems administrators	90	0.1	33
Physical scientists	3,700	3.0	(nc)
Environmental scientists and specialists, including health	570	0.5	40
Geoscientists, except hydrologists and geographers	3,130	2.5	11
Social scientists	100	0.1	(nc)
Market research analysts	100	0.1	26
Engineers	7,950	6.4	(nc)
Civil	290	0.2	22
Electrical/electronics	180	0.2	(nc)
Electrical	120	0.1	21
Electronics	60	0.1	40
Industrial	720	0.6	13
Other engineers	6,760	5.5	(nc)
Chemical	390	0.3	42
Environmental	180	0.2	19
Metallurgical/metallurgists	110	0.1	39
Mining and geological	1,380	1.1	28
Petroleum	4,560	3.7	11
Safety	140	0.1	29
Technicians	5,230	4.2	(nc)
Computer, numerical tool, and process control programmers	600	0.5	(nc)
Computer programmers	600	0.5	13
Drafters	190	0.2	(nc)
Mechanical drafters	190	0.2	43
Engineering technicians	810	0.7	(nc)
Electronical/electronics engineering technicians	270	0.2	46
Electro-mechanical technicians	40	<	39
Environmental engineering technicians	60	0.1	20
Industrial engineering technicians	100	0.1	20
Mechanical engineering technicians	340	0.3	46
Physical and life science technicians	3,350	2.7	(nc)
Environmental science and protection technicians, including health	110	0.1	17
Geological and petroleum technicians	3,240	2.6	11
Surveying, cartographic, photogrammetric, and mapping technicians	280	0.2	(nc)
Surveyors	280	0.2	42
Oil and gas field services (SIC 1380)			
Scientific and technical personnel	7,440	3.8	(nc)
Managers of scientific and technical personnel	840	0.4	(nc)
Computer and information systems managers	90	0.1	28
Engineering managers	680	0.4	13
Natural sciences managers	70	<	24

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 07 and 10-17 (agricultural services, mining, and construction),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Oil and gas field services (SIC 1380) -- continued:			
Scientists	1,450	0.7	(nc)
Physical scientists	1,370	0.7	(nc)
Environmental scientists and specialists, including health	30	<	26
Geoscientists, except hydrologists and geographers	1,340	0.7	18
Social scientists	80	<	(nc)
Market research analysts	80	<	39
Engineers	2,990	1.5	(nc)
Electrical/electronics	200	0.1	(nc)
Electrical	200	0.1	25
Industrial	160	0.1	32
Mechanical	550	0.3	28
Sales	450	0.2	22
Other engineers	1,630	0.8	(nc)
Chemical	80	<	26
Environmental	70	<	42
Marine	110	0.1	37
Mining and geological	170	0.1	18
Petroleum	1,200	0.6	14
Technicians	2,160	1.1	(nc)
Computer, numerical tool, and process control programmers	580	0.3	(nc)
Computer programmers	580	0.3	16
Drafters	270	0.1	(nc)
Mechanical drafters	270	0.1	32
Engineering technicians	820	0.4	(nc)
Electronical/electronics engineering technicians	580	0.3	23
Mechanical engineering technicians	240	0.1	42
Surveying, cartographic, photogrammetric, and mapping technicians	490	0.3	(nc)
Surveying and mapping technicians	160	0.1	22
Surveyors	330	0.2	30
Crushed and broken stone (SIC 1420)			
Scientific and technical personnel	770	1.8	(nc)
Managers of scientific and technical personnel	120	0.3	(nc)
Computer and information systems managers	30	0.1	20
Engineering managers	90	0.2	16
Scientists	80	0.2	(nc)
Computer scientists	30	0.1	(nc)
Computer systems analysts	30	0.1	8
Physical scientists	50	0.1	(nc)
Chemists	50	0.1	32

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Crushed and broken stone (SIC 1420) -- continued:			
Engineers	370	0.8	(nc)
Civil	50	0.1	39
Other engineers	320	0.7	(nc)
Metallurgical/metallurgists	40	0.1	36
Mining and geological	280	0.6	20
Technicians	200	0.5	(nc)
Computer, numerical tool, and process control programmers	50	0.1	(nc)
Computer programmers	50	0.1	16
Physical and life science technicians	110	0.3	(nc)
Chemical technicians, except health	80	0.2	19
Environmental science and protection technicians, including health	30	0.1	25
Surveying, cartographic, photogrammetric, and mapping technicians	40	0.1	(nc)
Surveying and mapping technicians	40	0.1	22
Sand and gravel (SIC 1440)			
Scientific and technical personnel	240	0.7	(nc)
Managers of scientific and technical personnel	70	0.2	(nc)
Engineering managers	70	0.2	25
Engineers	90	0.2	(nc)
Civil	30	0.1	27
Other engineers	60	0.2	(nc)
Mining and geological	60	0.2	11
Technicians	80	0.2	(nc)
Physical and life science technicians	50	0.1	(nc)
Chemical technicians, except health	50	0.1	16
Surveying, cartographic, photogrammetric, and mapping technicians	30	0.1	(nc)
Surveyors	30	0.1	26
Clay, ceramic, and refractory minerals (SIC 1450)			
Scientific and technical personnel	170	2.4	(nc)
Managers of scientific and technical personnel	40	0.6	(nc)
Engineering managers	40	0.6	33
Engineers	50	0.7	(nc)
Other engineers	50	0.7	(nc)
Mining and geological	50	0.7	18
Technicians	80	1.1	(nc)
Physical and life science technicians	50	0.7	(nc)
Chemical technicians, except health	50	0.7	29
Surveying, cartographic, photogrammetric, and mapping technicians	30	0.4	(nc)
Surveying and mapping technicians	30	0.4	26

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Chemical and fertilizer minerals (SIC 1470)			
Scientific and technical personnel	120	1.4	(nc)
Managers of scientific and technical personnel	40	0.5	(nc)
Engineering managers	40	0.5	23
Engineers	50	0.6	(nc)
Other engineers	50	0.6	(nc)
Mining and geological	50	0.6	17
Technicians	30	0.3	(nc)
Physical and life science technicians	30	0.3	(nc)
Chemical technicians, except health	30	0.3	19
Misc. nonmetallic minerals (SIC 1490)			
Scientific and technical personnel	110	2.2	(nc)
Scientists	30	0.6	(nc)
Physical scientists	30	0.6	(nc)
Chemists	30	0.6	19
Engineers	40	0.8	(nc)
Other engineers	40	0.8	(nc)
Mining and geological	40	0.8	12
Technicians	40	0.8	(nc)
Physical and life science technicians	40	0.8	(nc)
Chemical technicians, except health	40	0.8	11
Residential building construction (SIC 1520)			
Scientific and technical personnel	4,280	0.5	(nc)
Managers of scientific and technical personnel	350	<	(nc)
Computer and information systems managers	80	<	44
Engineering managers	270	<	23
Scientists	200	<	(nc)
Computer scientists	150	<	(nc)
Network and computer systems administrators	120	<	17
Network systems/data communications analysts	30	<	39
Social scientists	50	<	(nc)
Market research analysts	50	<	36
Engineers	780	0.1	(nc)
Civil	700	0.1	17
Other engineers	80	<	(nc)
Safety	80	<	19

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 07 and 10-17 (agricultural services, mining, and construction),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Residential building construction (SIC 1520) -- continued:			
Technicians	2,950	0.4	(nc)
Computer, numerical tool, and process control programmers	80	<	(nc)
Computer programmers	80	<	20
Drafters	2,690	0.3	(nc)
Architectural and civil drafters	2,620	0.3	12
Electrical and electronics drafters	70	<	37
Engineering technicians	70	<	(nc)
Civil engineering technicians	70	<	30
Surveying, cartographic, photogrammetric, and mapping technicians	110	<	(nc)
Surveying and mapping technicians	30	<	26
Surveyors	80	<	22
Operative builders (SIC 1530)			
Scientific and technical personnel	940	3.0	(nc)
Managers of scientific and technical personnel	80	0.3	(nc)
Engineering managers	80	0.3	44
Scientists	40	0.1	(nc)
Computer scientists	40	0.1	(nc)
Network and computer systems administrators	40	0.1	14
Engineers	370	1.2	(nc)
Civil	370	1.2	44
Technicians	450	1.4	(nc)
Computer, numerical tool, and process control programmers	90	0.3	(nc)
Computer programmers	90	0.3	20
Drafters	360	1.2	(nc)
Architectural and civil drafters	360	1.2	26
Nonresidential building excluding building (SIC 1540)			
Scientific and technical personnel	15,530	2.3	(nc)
Managers of scientific and technical personnel	2,570	0.4	(nc)
Computer and information systems managers	100	<	31
Engineering managers	2,470	0.4	39
Scientists	500	0.1	(nc)
Computer scientists	500	0.1	(nc)
Computer systems analysts	50	<	42
Network and computer systems administrators	410	0.1	10
Network systems/data communications analysts	40	<	46

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 07 and 10-17 (agricultural services, mining, and construction),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Nonresidential building excluding building (SIC 1540) -- continued:			
Engineers	8,800	1.3	(nc)
Civil	5,810	0.9	7
Electrical/electronics	280	<	(nc)
Electrical	280	<	16
Industrial	700	0.1	24
Mechanical	840	0.1	17
Sales	210	<	17
Other engineers	960	0.2	(nc)
Environmental	180	<	26
Safety	780	0.1	9
Technicians	3,660	0.5	(nc)
Computer, numerical tool, and process control programmers	350	0.1	(nc)
Computer programmers	350	0.1	19
Drafters	1,700	0.3	(nc)
Architectural and civil drafters	1,700	0.3	11
Engineering technicians	980	0.1	(nc)
Civil engineering technicians	700	0.1	21
Electronical/electronics engineering technicians	50	<	21
Environmental engineering technicians	100	<	18
Industrial engineering technicians	60	<	39
Mechanical engineering technicians	70	<	43
Surveying, cartographic, photogrammetric, and mapping technicians	630	0.1	(nc)
Surveying and mapping technicians	190	<	19
Surveyors	440	0.1	13
Highway and street construction (SIC 1610)			
Scientific and technical personnel	4,540	1.5	(nc)
Managers of scientific and technical personnel	530	0.2	(nc)
Engineering managers	530	0.2	16
Scientists	80	<	(nc)
Computer scientists	80	<	(nc)
Network and computer systems administrators	80	<	13
Engineers	2,270	0.7	(nc)
Civil	1,890	0.6	11
Industrial	80	<	20
Mechanical	60	<	34
Other engineers	240	0.1	(nc)
Environmental	30	<	26
Safety	210	0.1	13

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Highway and street construction (SIC 1610) -- continued:			
Technicians	1,660	0.5	(nc)
Computer, numerical tool, and process control programmers	70	<	(nc)
Computer programmers	70	<	19
Drafters	70	<	(nc)
Architectural and civil drafters	70	<	23
Engineering technicians	500	0.2	(nc)
Civil engineering technicians	260	0.1	22
Environmental engineering technicians	60	<	37
Industrial engineering technicians	30	<	35
Mechanical engineering technicians	60	<	48
All other engineering technicians	90	<	(nc)
Traffic technicians	90	<	44
Surveying, cartographic, photogrammetric, and mapping technicians	1,020	0.3	(nc)
Surveying and mapping technicians	210	0.1	10
Surveyors	810	0.3	8
Heavy construction, except highway (SIC 1620)			
Scientific and technical personnel	17,640	2.8	(nc)
Managers of scientific and technical personnel	1,930	0.3	(nc)
Computer and information systems managers	110	<	42
Engineering managers	1,820	0.3	16
Scientists	410	0.1	(nc)
Computer scientists	410	0.1	(nc)
Computer software, applications	70	<	32
Computer systems analysts	60	<	32
Network and computer systems administrators	200	<	16
Network systems/data communications analysts	80	<	30
Engineers	11,670	1.8	(nc)
Civil	6,950	1.1	10
Electrical/electronics	1,390	0.2	(nc)
Electrical	1,340	0.2	36
Electronics	50	<	29
Industrial	890	0.1	44
Mechanical	1,000	0.2	48
Sales	160	<	19
Other engineers	1,280	0.2	(nc)
Safety	1,280	0.2	25
Technicians	3,630	0.6	(nc)
Computer, numerical tool, and process control programmers	340	0.1	(nc)
Computer programmers	340	0.1	31
Drafters	910	0.2	(nc)
Architectural and civil drafters	810	0.1	32
Electrical and electronics drafters	100	<	28

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Heavy construction, except highway (SIC 1620) -- continued:			
Engineering technicians	1,100	0.2	(nc)
Civil engineering technicians	710	0.1	43
Electronical/electronics engineering technicians	220	<	19
Environmental engineering technicians	100	<	35
Industrial engineering technicians	70	<	34
Surveying, cartographic, photogrammetric, and mapping technicians	1,280	0.2	(nc)
Surveying and mapping technicians	480	0.1	24
Surveyors	800	0.1	8
Plumbing, heating, air conditioning (SIC 1710)			
Scientific and technical personnel	9,670	1.0	(nc)
Managers of scientific and technical personnel	860	0.1	(nc)
Engineering managers	860	0.1	15
Scientists	290	<	(nc)
Computer scientists	290	<	(nc)
Network and computer systems administrators	290	<	12
Engineers	4,360	0.5	(nc)
Civil	940	0.1	14
Industrial	160	<	22
Mechanical	1,710	0.2	12
Sales	1,170	0.1	8
Other engineers	380	<	(nc)
Environmental	40	<	16
Safety	340	<	14
Technicians	4,160	0.4	(nc)
Computer, numerical tool, and process control programmers	200	<	(nc)
Computer programmers	200	<	13
Drafters	2,520	0.3	(nc)
Architectural and civil drafters	1,790	0.2	15
Electrical and electronics drafters	560	0.1	15
Mechanical drafters	170	<	20
Engineering technicians	1,340	0.1	(nc)
Civil engineering technicians	100	<	22
Electronical/electronics engineering technicians	200	<	19
Industrial engineering technicians	190	<	34
Mechanical engineering technicians	850	0.1	12
Surveying, cartographic, photogrammetric, and mapping technicians	100	<	(nc)
Surveying and mapping technicians	100	<	32

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Painting and paper hanging (SIC 1720)			
Scientific and technical personnel	60	<	(nc)
Engineers	60	<	(nc)
Civil	30	<	46
Other engineers	30	<	(nc)
Safety	30	<	15
Electrical work (SIC 1730)			
Scientific and technical personnel	16,340	1.9	(nc)
Managers of scientific and technical personnel	890	0.1	(nc)
Computer and information systems managers	240	<	24
Engineering managers	650	0.1	12
Scientists	2,110	0.3	(nc)
Computer scientists	1,970	0.2	(nc)
Computer software, systems	250	<	44
Computer systems analysts	320	<	40
Network and computer systems administrators	820	0.1	12
Network systems/data communications analysts	580	0.1	31
Social scientists	140	<	(nc)
Market research analysts	140	<	20
Engineers	5,810	0.7	(nc)
Civil	680	0.1	30
Electrical/electronics	3,720	0.4	(nc)
Electrical	3,720	0.4	15
Sales	1,210	0.1	30
Other engineers	200	<	(nc)
Safety	200	<	10
Technicians	7,530	0.8	(nc)
Computer, numerical tool, and process control programmers	660	0.1	(nc)
Computer programmers	660	0.1	13
Drafters	3,100	0.4	(nc)
Architectural and civil drafters	220	<	27
Electrical and electronics drafters	2,880	0.3	13
Engineering technicians	3,730	0.4	(nc)
Electronical/electronics engineering technicians	3,700	0.4	28
Environmental engineering technicians	30	<	35
Surveying, cartographic, photogrammetric, and mapping technicians	40	<	(nc)
Surveying and mapping technicians	40	<	19

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Masonry, stonework, and plastering (SIC 1740)			
Scientific and technical personnel	850	0.1	(nc)
Managers of scientific and technical personnel	120	<	(nc)
Engineering managers	120	<	24
Engineers	480	0.1	(nc)
Civil	310	0.1	26
Sales	120	<	26
Other engineers	50	<	(nc)
Safety	50	<	11
Technicians	250	<	(nc)
Drafters	250	<	(nc)
Architectural and civil drafters	250	<	40
Carpentry and floor work (SIC 1750)			
Scientific and technical personnel	740	0.2	(nc)
Managers of scientific and technical personnel	50	<	(nc)
Engineering managers	50	<	26
Scientists	30	<	(nc)
Computer scientists	30	<	(nc)
Network and computer systems administrators	30	<	19
Engineers	200	0.1	(nc)
Civil	110	<	32
Sales	90	<	27
Technicians	460	0.1	(nc)
Drafters	460	0.1	(nc)
Architectural and civil drafters	460	0.1	17
Roofing, siding, and sheet-metal work (SIC 1760)			
Scientific and technical personnel	480	0.2	(nc)
Managers of scientific and technical personnel	50	<	(nc)
Engineering managers	50	<	37
Engineers	270	0.1	(nc)
Civil	60	<	30
Sales	140	0.1	16
Other engineers	70	<	(nc)
Safety	70	<	17
Technicians	160	0.1	(nc)
Drafters	160	0.1	(nc)
Architectural and civil drafters	160	0.1	17

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Concrete work (SIC 1770)			
Scientific and technical personnel	880	0.3	(nc)
Managers of scientific and technical personnel	90	<	(nc)
Engineering managers	90	<	21
Engineers	560	0.2	(nc)
Civil	450	0.1	19
Sales	50	<	21
Other engineers	60	<	(nc)
Safety	60	<	15
Technicians	230	0.1	(nc)
Drafters	40	<	(nc)
Architectural and civil drafters	40	<	12
Engineering technicians	90	<	(nc)
Civil engineering technicians	50	<	23
Mechanical engineering technicians	40	<	16
Surveying, cartographic, photogrammetric, and mapping technicians	100	<	(nc)
Surveyors	100	<	31
Misc. special trade contractors (SIC 1790)			
Scientific and technical personnel	7,810	1.0	(nc)
Managers of scientific and technical personnel	330	<	(nc)
Engineering managers	330	<	12
Scientists	260	<	(nc)
Computer scientists	80	<	(nc)
Network and computer systems administrators	80	<	11
Physical scientists	130	<	(nc)
Chemists	70	<	45
Environmental scientists and specialists, including health	30	<	39
Hydrologists	30	<	29
Social scientists	50	<	(nc)
Market research analysts	50	<	50
Engineers	3,720	0.5	(nc)
Civil	1,410	0.2	19
Electrical/electronics	130	<	(nc)
Electrical	130	<	21
Industrial	120	<	19
Mechanical	810	0.1	25
Sales	750	0.1	24
Other engineers	500	0.1	(nc)
Environmental	180	<	26
Safety	320	<	12

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 07 and 10-17 (agricultural services, mining, and construction), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. special trade contractors (SIC 1790) -- continued:			
Technicians	3,500	0.5	(nc)
Computer, numerical tool, and process control programmers	160	<	(nc)
Computer programmers	160	<	14
Drafters	1,700	0.2	(nc)
Architectural and civil drafters	1,640	0.2	13
Mechanical drafters	60	<	33
Engineering technicians	1,080	0.2	(nc)
Civil engineering technicians	420	0.1	36
Electronical/electronics engineering technicians	360	0.1	47
Environmental engineering technicians	240	<	19
Industrial engineering technicians	60	<	23
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	32
Surveying, cartographic, photogrammetric, and mapping technicians	530	0.1	(nc)
Surveying and mapping technicians	100	<	22
Surveyors	430	0.1	19

[1]SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2]Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:
- nc = Not computed
- < = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.
- n.e.c. = Not elsewhere classified.
- SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Meat products (SIC 2010)			
Scientific and technical personnel	3,420	0.7	(nc)
Managers of scientific and technical personnel	620	0.1	(nc)
Computer and information systems managers	290	0.1	9
Engineering managers	290	0.1	9
Natural sciences managers	40	<	24
Scientists	540	0.1	(nc)
Computer scientists	160	<	(nc)
Network and computer systems administrators	130	<	14
Network systems/data communications analysts	30	<	20
Life scientists	190	<	(nc)
Agricultural scientists	160	<	14
Microbiologists	30	<	36
Physical scientists	190	<	(nc)
Chemists	190	<	12
Engineers	680	0.1	(nc)
Industrial	380	0.1	5
Mechanical	170	<	8
Other engineers	130	<	(nc)
Safety	130	<	10
Technicians	1,580	0.3	(nc)
Computer, numerical tool, and process control programmers	450	0.1	(nc)
Computer programmers	450	0.1	46
Engineering technicians	30	<	(nc)
Mechanical engineering technicians	30	<	25
Physical and life science technicians	1,100	0.2	(nc)
Agricultural and food science technicians	700	0.1	14
Biological technicians	250	0.1	16
Chemical technicians, except health	150	<	11
Dairy products (SIC 2020)			
Scientific and technical personnel	4,410	3.0	(nc)
Managers of scientific and technical personnel	650	0.5	(nc)
Computer and information systems managers	270	0.2	11
Engineering managers	270	0.2	14
Natural sciences managers	110	0.1	32

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Dairy products (SIC 2020) -- continued:			
Scientists	760	0.5	(nc)
Computer scientists	290	0.2	(nc)
Computer systems analysts	190	0.1	17
Network and computer systems administrators	50	<	16
Network systems/data communications analysts	50	<	37
Life scientists	230	0.2	(nc)
Agricultural scientists	230	0.2	24
Physical scientists	210	0.1	(nc)
Chemists	210	0.1	10
Social scientists	30	<	(nc)
Market research analysts	30	<	43
Engineers	610	0.4	(nc)
Industrial	290	0.2	10
Mechanical	170	0.1	16
Other engineers	150	0.1	(nc)
Chemical	60	<	44
Safety	90	0.1	17
Technicians	2,390	1.7	(nc)
Computer, numerical tool, and process control programmers	230	0.2	(nc)
Computer programmers	230	0.2	17
Engineering technicians	210	0.2	(nc)
Industrial engineering technicians	100	0.1	18
Mechanical engineering technicians	110	0.1	25
Physical and life science technicians	1,950	1.3	(nc)
Agricultural and food science technicians	1,380	1.0	9
Biological technicians	290	0.2	30
Chemical technicians, except health	280	0.2	17
Preserved fruits & vegetables (SIC 2030)			
Scientific and technical personnel	5,810	2.8	(nc)
Managers of scientific and technical personnel	750	0.4	(nc)
Computer and information systems managers	270	0.1	15
Engineering managers	340	0.2	11
Natural sciences managers	140	0.1	15
Scientists	2,070	1.0	(nc)
Computer scientists	640	0.3	(nc)
Computer software, systems	200	0.1	36
Computer systems analysts	300	0.1	13
Network and computer systems administrators	140	0.1	12
Life scientists	1,060	0.5	(nc)
Agricultural scientists	970	0.5	26
Biochemists and biophysicists	50	<	29
Microbiologists	40	<	17

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Preserved fruits & vegetables (SIC 2030) -- continued:			
Mathematical scientists	80	<	(nc)
Operations and systems researchers and analysts	80	<	24
Physical scientists	170	0.1	(nc)
Chemists	170	0.1	22
Social scientists	120	0.1	(nc)
Market research analysts	120	0.1	19
Engineers	1,020	0.5	(nc)
Industrial	640	0.3	18
Mechanical	170	0.1	18
Other engineers	210	0.1	(nc)
Agricultural	30	<	32
Chemical	30	<	40
Metallurgical/metallurgists	40	<	44
Safety	110	0.1	20
Technicians	1,970	0.9	(nc)
Computer, numerical tool, and process control programmers	270	0.1	(nc)
Computer programmers	270	0.1	19
Engineering technicians	420	0.2	(nc)
Industrial engineering technicians	370	0.2	32
Mechanical engineering technicians	50	<	34
Physical and life science technicians	1,280	0.6	(nc)
Agricultural and food science technicians	860	0.4	18
Biological technicians	190	0.1	14
Chemical technicians, except health	170	0.1	16
Environmental science and protection technicians, including health	60	<	29
Grain mill products (SIC 2040)			
Scientific and technical personnel	4,960	4.1	(nc)
Managers of scientific and technical personnel	670	0.6	(nc)
Computer and information systems managers	190	0.2	11
Engineering managers	330	0.3	13
Natural sciences managers	150	0.1	17
Scientists	1,730	1.4	(nc)
Computer scientists	500	0.4	(nc)
Computer software, applications	50	<	30
Computer systems analysts	180	0.2	16
Network and computer systems administrators	180	0.2	15
Network systems/data communications analysts	90	0.1	46
Life scientists	420	0.4	(nc)
Agricultural scientists	340	0.3	27
Biochemists and biophysicists	80	0.1	22
Physical scientists	700	0.6	(nc)
Chemists	700	0.6	25
Social scientists	110	0.1	(nc)
Market research analysts	110	0.1	25

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Grain mill products (SIC 2040) -- continued:			
Engineers	1,110	0.9	(nc)
Industrial	590	0.5	22
Mechanical	200	0.2	22
Other engineers	320	0.3	(nc)
Chemical	210	0.2	27
Safety	110	0.1	37
Technicians	1,450	1.2	(nc)
Computer, numerical tool, and process control programmers	170	0.1	(nc)
Computer programmers	170	0.1	19
Engineering technicians	170	0.1	(nc)
Industrial engineering technicians	70	0.1	11
Mechanical engineering technicians	100	0.1	34
Physical and life science technicians	1,110	0.9	(nc)
Agricultural and food science technicians	690	0.6	16
Biological technicians	100	0.1	18
Chemical technicians, except health	320	0.3	15
Bakery products (SIC 2050)			
Scientific and technical personnel	1,900	0.9	(nc)
Managers of scientific and technical personnel	550	0.3	(nc)
Computer and information systems managers	200	0.1	17
Engineering managers	350	0.2	13
Scientists	290	0.1	(nc)
Computer scientists	160	0.1	(nc)
Computer systems analysts	110	0.1	34
Network and computer systems administrators	50	<	13
Life scientists	50	<	(nc)
Agricultural scientists	50	<	40
Social scientists	80	<	(nc)
Market research analysts	80	<	48
Engineers	680	0.3	(nc)
Industrial	310	0.2	17
Mechanical	320	0.2	25
Other engineers	50	<	(nc)
Safety	50	<	15
Technicians	380	0.2	(nc)
Computer, numerical tool, and process control programmers	140	0.1	(nc)
Computer programmers	140	0.1	18
Engineering technicians	130	0.1	(nc)
Civil engineering technicians	30	<	36
Electronical/electronics engineering technicians	40	<	7
Industrial engineering technicians	60	<	28
Physical and life science technicians	110	0.1	(nc)
Agricultural and food science technicians	80	<	22
Chemical technicians, except health	30	<	30

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Sugar and confectionery products (SIC 2060)			
Scientific and technical personnel	3,290	3.3	(nc)
Managers of scientific and technical personnel	390	0.4	(nc)
Computer and information systems managers	120	0.1	14
Engineering managers	180	0.2	14
Natural sciences managers	90	0.1	15
Scientists	1,020	1.0	(nc)
Computer scientists	360	0.4	(nc)
Computer software, applications	40	<	31
Computer systems analysts	140	0.1	28
Network and computer systems administrators	130	0.1	17
Network systems/data communications analysts	50	0.1	38
Life scientists	260	0.3	(nc)
Agricultural scientists	260	0.3	28
Physical scientists	340	0.4	(nc)
Chemists	310	0.3	18
Environmental scientists and specialists, including health	30	<	36
Social scientists	60	0.1	(nc)
Market research analysts	60	0.1	33
Engineers	480	0.5	(nc)
Industrial	160	0.2	16
Mechanical	250	0.3	21
Other engineers	70	0.1	(nc)
Agricultural	40	<	30
Safety	30	<	20
Technicians	1,400	1.4	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	21
Engineering technicians	70	0.1	(nc)
Electronical/electronics engineering technicians	30	<	40
Industrial engineering technicians	40	<	24
Physical and life science technicians	1,230	1.3	(nc)
Agricultural and food science technicians	760	0.8	37
Biological technicians	30	<	23
Chemical technicians, except health	440	0.5	25
Fats and oils (SIC 2070)			
Scientific and technical personnel	1,380	4.9	(nc)
Managers of scientific and technical personnel	230	0.8	(nc)
Computer and information systems managers	50	0.2	16
Engineering managers	70	0.3	14
Natural sciences managers	110	0.4	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Fats and oils (SIC 2070) -- continued:			
Scientists	520	1.9	(nc)
Computer scientists	100	0.4	(nc)
Computer systems analysts	70	0.3	40
Network and computer systems administrators	30	0.1	39
Life scientists	70	0.3	(nc)
Agricultural scientists	70	0.3	36
Physical scientists	350	1.2	(nc)
Chemists	350	1.2	29
Engineers	370	1.3	(nc)
Industrial	180	0.6	41
Mechanical	40	0.1	19
Other engineers	150	0.5	(nc)
Agricultural	40	0.1	33
Chemical	80	0.3	28
Safety	30	0.1	19
Technicians	260	0.9	(nc)
Computer, numerical tool, and process control programmers	30	0.1	(nc)
Computer programmers	30	0.1	18
Physical and life science technicians	230	0.8	(nc)
Agricultural and food science technicians	140	0.5	15
Chemical technicians, except health	90	0.3	21
Beverages (SIC 2080)			
Scientific and technical personnel	10,280	5.5	(nc)
Managers of scientific and technical personnel	1,890	1.0	(nc)
Computer and information systems managers	990	0.5	23
Engineering managers	670	0.4	25
Natural sciences managers	230	0.1	26
Scientists	3,650	2.0	(nc)
Computer scientists	2,840	1.5	(nc)
Computer systems analysts	2,650	1.4	28
Network and computer systems administrators	160	0.1	15
Network systems/data communications analysts	30	<	40
Life scientists	80	<	(nc)
Agricultural scientists	80	<	21
Physical scientists	680	0.4	(nc)
Chemists	680	0.4	13
Social scientists	50	<	(nc)
Market research analysts	50	<	20

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Beverages (SIC 2080) -- continued:			
Engineers	2,800	1.5	(nc)
Industrial	2,180	1.2	26
Mechanical	350	0.2	31
Other engineers	270	0.1	(nc)
Agricultural	60	<	42
Chemical	150	0.1	30
Safety	60	<	15
Technicians	1,940	1.0	(nc)
Computer, numerical tool, and process control programmers	200	0.1	(nc)
Computer programmers	200	0.1	12
Engineering technicians	730	0.4	(nc)
Industrial engineering technicians	380	0.2	25
Mechanical engineering technicians	350	0.2	37
Physical and life science technicians	1,010	0.5	(nc)
Agricultural and food science technicians	470	0.3	18
Biological technicians	70	<	21
Chemical technicians, except health	470	0.3	27
Misc. food and kindred products (SIC 2090)			
Scientific and technical personnel	2,410	1.4	(nc)
Managers of scientific and technical personnel	420	0.2	(nc)
Computer and information systems managers	190	0.1	16
Engineering managers	170	0.1	11
Natural sciences managers	60	<	15
Scientists	790	0.5	(nc)
Computer scientists	350	0.2	(nc)
Computer software, applications	30	<	33
Computer systems analysts	180	0.1	38
Network and computer systems administrators	140	0.1	23
Life scientists	170	0.1	(nc)
Agricultural scientists	140	0.1	30
Microbiologists	30	<	35
Physical scientists	240	0.1	(nc)
Chemists	240	0.1	15
Social scientists	30	<	(nc)
Market research analysts	30	<	20
Engineers	330	0.2	(nc)
Industrial	150	0.1	13
Mechanical	120	0.1	18
Other engineers	60	<	(nc)
Safety	60	<	30

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. food and kindred products (SIC 2090) -- continued:			
Technicians	870	0.5	(nc)
Computer, numerical tool, and process control programmers	120	0.1	(nc)
Computer programmers	120	0.1	12
Engineering technicians	200	0.1	(nc)
Industrial engineering technicians	70	<	32
Mechanical engineering technicians	130	0.1	34
Physical and life science technicians	550	0.3	(nc)
Agricultural and food science technicians	330	0.2	19
Biological technicians	60	<	14
Chemical technicians, except health	160	0.1	13
Cigarettes (SIC 2110)			
Scientific and technical personnel	1,100	5.4	(nc)
Managers of scientific and technical personnel	140	0.7	(nc)
Computer and information systems managers	140	0.7	47
Scientists	570	2.8	(nc)
Computer scientists	570	2.8	(nc)
Computer systems analysts	430	2.1	37
Network and computer systems administrators	140	0.7	40
Technicians	390	1.9	(nc)
Computer, numerical tool, and process control programmers	350	1.7	(nc)
Computer programmers	350	1.7	30
Physical and life science technicians	40	0.2	(nc)
Agricultural and food science technicians	40	0.2	37
Broadwoven fabric mills, cotton (SIC 2210)			
Scientific and technical personnel	500	0.8	(nc)
Managers of scientific and technical personnel	110	0.2	(nc)
Computer and information systems managers	60	0.1	12
Engineering managers	50	0.1	16
Engineers	170	0.3	(nc)
Industrial	170	0.3	11
Technicians	220	0.4	(nc)
Computer, numerical tool, and process control programmers	60	0.1	(nc)
Computer programmers	60	0.1	17
Engineering technicians	90	0.2	(nc)
Industrial engineering technicians	90	0.2	17
Physical and life science technicians	70	0.1	(nc)
Chemical technicians, except health	70	0.1	23

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Broadwoven fabric mills, manmade (SIC 2220)			
Scientific and technical personnel	940	1.8	(nc)
Managers of scientific and technical personnel	280	0.5	(nc)
Computer and information systems managers	60	0.1	6
Engineering managers	220	0.4	29
Scientists	80	0.2	(nc)
Computer scientists	30	0.1	(nc)
Computer systems analysts	30	0.1	3
Physical scientists	50	0.1	(nc)
Chemists	50	0.1	40
Engineers	300	0.6	(nc)
Industrial	160	0.3	12
Mechanical	40	0.1	13
Sales	70	0.1	15
Other engineers	30	0.1	(nc)
Safety	30	0.1	34
Technicians	280	0.5	(nc)
Computer, numerical tool, and process control programmers	50	0.1	(nc)
Computer programmers	50	0.1	8
Engineering technicians	140	0.3	(nc)
Industrial engineering technicians	140	0.3	13
Physical and life science technicians	90	0.2	(nc)
Chemical technicians, except health	90	0.2	6
Broadwoven fabric mills, wool (SIC 2230)			
Scientific and technical personnel	60	0.7	(nc)
Technicians	60	0.7	(nc)
Computer, numerical tool, and process control programmers	30	0.4	(nc)
Computer programmers	30	0.4	31
Physical and life science technicians	30	0.4	(nc)
Chemical technicians, except health	30	0.4	36
Narrow fabric mills (SIC 2240)			
Scientific and technical personnel	90	0.5	(nc)
Managers of scientific and technical personnel	60	0.3	(nc)
Computer and information systems managers	30	0.2	15
Engineering managers	30	0.2	32
Engineers	30	0.2	(nc)
Industrial	30	0.2	31

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Knitting mills (SIC 2250)			
Scientific and technical personnel	1,690	1.4	(nc)
Managers of scientific and technical personnel	450	0.4	(nc)
Computer and information systems managers	290	0.2	15
Engineering managers	160	0.1	12
Scientists	310	0.3	(nc)
Computer scientists	260	0.2	(nc)
Computer systems analysts	120	0.1	28
Network and computer systems administrators	140	0.1	21
Physical scientists	50	<	(nc)
Chemists	50	<	18
Engineers	310	0.3	(nc)
Industrial	260	0.2	16
Mechanical	50	<	21
Technicians	620	0.5	(nc)
Computer, numerical tool, and process control programmers	330	0.3	(nc)
Computer programmers	330	0.3	23
Engineering technicians	240	0.2	(nc)
Industrial engineering technicians	190	0.2	36
Mechanical engineering technicians	50	<	35
Physical and life science technicians	50	<	(nc)
Chemical technicians, except health	50	<	27
Textile finishing, except wool (SIC 2260)			
Scientific and technical personnel	850	1.5	(nc)
Managers of scientific and technical personnel	130	0.2	(nc)
Computer and information systems managers	70	0.1	20
Engineering managers	60	0.1	8
Scientists	170	0.3	(nc)
Computer scientists	40	0.1	(nc)
Network and computer systems administrators	40	0.1	27
Physical scientists	130	0.2	(nc)
Chemists	130	0.2	12
Engineers	200	0.4	(nc)
Industrial	110	0.2	20
Mechanical	50	0.1	29
Other engineers	40	0.1	(nc)
Chemical	40	0.1	29
Technicians	350	0.6	(nc)
Computer, numerical tool, and process control programmers	60	0.1	(nc)
Computer programmers	60	0.1	31
Physical and life science technicians	290	0.5	(nc)
Chemical technicians, except health	290	0.5	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Carpets and rugs (SIC 2270)			
Scientific and technical personnel	780	1.2	(nc)
Managers of scientific and technical personnel	130	0.2	(nc)
Computer and information systems managers	90	0.1	33
Engineering managers	40	0.1	18
Scientists	70	0.1	(nc)
Computer scientists	70	0.1	(nc)
Computer systems analysts	30	0.1	28
Network and computer systems administrators	40	0.1	40
Engineers	180	0.3	(nc)
Industrial	120	0.2	16
Mechanical	60	0.1	30
Technicians	400	0.6	(nc)
Computer, numerical tool, and process control programmers	290	0.5	(nc)
Computer programmers	290	0.5	32
Engineering technicians	30	0.1	(nc)
Industrial engineering technicians	30	0.1	12
Physical and life science technicians	80	0.1	(nc)
Chemical technicians, except health	80	0.1	37
Yarn and thread mills (SIC 2280)			
Scientific and technical personnel	550	0.7	(nc)
Managers of scientific and technical personnel	120	0.2	(nc)
Computer and information systems managers	50	0.1	10
Engineering managers	70	0.1	10
Engineers	200	0.3	(nc)
Industrial	200	0.3	10
Technicians	230	0.3	(nc)
Computer, numerical tool, and process control programmers	50	0.1	(nc)
Computer programmers	50	0.1	24
Engineering technicians	100	0.1	(nc)
Industrial engineering technicians	100	0.1	14
Physical and life science technicians	80	0.1	(nc)
Chemical technicians, except health	80	0.1	21
Miscellaneous textile goods (SIC 2290)			
Scientific and technical personnel	1,400	2.6	(nc)
Managers of scientific and technical personnel	240	0.4	(nc)
Computer and information systems managers	110	0.2	15
Engineering managers	130	0.2	7

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous textile goods (SIC 2290) -- continued:			
Scientists	160	0.3	(nc)
Computer scientists	50	0.1	(nc)
Network and computer systems administrators	50	0.1	12
Physical scientists	110	0.2	(nc)
Chemists	110	0.2	10
Engineers	550	1.0	(nc)
Industrial	310	0.6	10
Mechanical	150	0.3	11
Other engineers	90	0.2	(nc)
Chemical	50	0.1	16
Safety	40	0.1	14
Technicians	450	0.8	(nc)
Computer, numerical tool, and process control programmers	70	0.1	(nc)
Computer programmers	70	0.1	14
Engineering technicians	120	0.2	(nc)
Industrial engineering technicians	120	0.2	15
Physical and life science technicians	260	0.5	(nc)
Chemical technicians, except health	260	0.5	13
Men's & boys' suits and coats (SIC 2310)			
Scientific and technical personnel	90	0.5	(nc)
Managers of scientific and technical personnel	30	0.2	(nc)
Computer and information systems managers	30	0.2	19
Engineers	30	0.2	(nc)
Industrial	30	0.2	24
Technicians	30	0.2	(nc)
Computer, numerical tool, and process control programmers	30	0.2	(nc)
Computer programmers	30	0.2	21
Men's & boys' furnishings (SIC 2320)			
Scientific and technical personnel	720	0.6	(nc)
Managers of scientific and technical personnel	230	0.2	(nc)
Computer and information systems managers	180	0.1	18
Engineering managers	50	<	11
Scientists	80	0.1	(nc)
Computer scientists	80	0.1	(nc)
Network and computer systems administrators	50	<	21
Network systems/data communications analysts	30	<	40
Engineers	190	0.2	(nc)
Industrial	190	0.2	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Men's & boys' furnishings (SIC 2320) -- continued:			
Technicians	220	0.2	(nc)
Computer, numerical tool, and process control programmers	180	0.1	(nc)
Computer programmers	180	0.1	21
Engineering technicians	40	<	(nc)
Industrial engineering technicians	40	<	20
Women's and misses' outerwear (SIC 2330)			
Scientific and technical personnel	990	0.6	(nc)
Managers of scientific and technical personnel	170	0.1	(nc)
Computer and information systems managers	140	0.1	20
Engineering managers	30	<	32
Scientists	400	0.2	(nc)
Computer scientists	400	0.2	(nc)
Computer systems analysts	240	0.1	45
Network and computer systems administrators	160	0.1	25
Engineers	100	0.1	(nc)
Industrial	100	0.1	22
Technicians	320	0.2	(nc)
Computer, numerical tool, and process control programmers	270	0.2	(nc)
Computer programmers	270	0.2	22
Engineering technicians	50	<	(nc)
Industrial engineering technicians	50	<	32
Women's and children's undergarments (SIC 2340)			
Scientific and technical personnel	110	0.6	(nc)
Managers of scientific and technical personnel	30	0.2	(nc)
Computer and information systems managers	30	0.2	16
Engineers	40	0.2	(nc)
Industrial	40	0.2	18
Technicians	40	0.2	(nc)
Computer, numerical tool, and process control programmers	40	0.2	(nc)
Computer programmers	40	0.2	22
Girls' and children's outerwear (SIC 2360)			
Scientific and technical personnel	30	0.2	(nc)
Technicians	30	0.2	(nc)
Computer, numerical tool, and process control programmers	30	0.2	(nc)
Computer programmers	30	0.2	10

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous apparel and accessories (SIC 2380)			
Scientific and technical personnel	240	0.9	(nc)
Managers of scientific and technical personnel	60	0.2	(nc)
Computer and information systems managers	60	0.2	15
Scientists	60	0.2	(nc)
Computer scientists	60	0.2	(nc)
Computer software, applications	30	0.1	20
Network and computer systems administrators	30	0.1	21
Engineers	50	0.2	(nc)
Industrial	50	0.2	20
Technicians	70	0.3	(nc)
Computer, numerical tool, and process control programmers	70	0.3	(nc)
Computer programmers	70	0.3	19
Misc. fabricated textile products (SIC 2390)			
Scientific and technical personnel	1,300	0.6	(nc)
Managers of scientific and technical personnel	390	0.2	(nc)
Computer and information systems managers	210	0.1	11
Engineering managers	180	0.1	9
Scientists	120	0.1	(nc)
Computer scientists	120	0.1	(nc)
Network and computer systems administrators	120	0.1	50
Engineers	290	0.1	(nc)
Industrial	230	0.1	10
Sales	30	<	32
Other engineers	30	<	(nc)
Safety	30	<	23
Technicians	500	0.2	(nc)
Computer, numerical tool, and process control programmers	210	0.1	(nc)
Computer programmers	210	0.1	22
Drafters	40	<	(nc)
Mechanical drafters	40	<	18
Engineering technicians	250	0.1	(nc)
Industrial engineering technicians	160	0.1	12
Mechanical engineering technicians	90	<	31
Logging (SIC 2410)			
Scientific and technical personnel	990	1.3	(nc)
Scientists	710	0.9	(nc)
Life scientists	710	0.9	(nc)
Foresters	710	0.9	15

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Logging (SIC 2410) -- continued:			
Engineers	30	<	(nc)
Other engineers	30	<	(nc)
Agricultural	30	<	32
Technicians	250	0.3	(nc)
Physical and life science technicians	210	0.3	(nc)
Forest and conservation technicians	210	0.3	22
Surveying, cartographic, photogrammetric, and mapping technicians	40	0.1	(nc)
Surveying and mapping technicians	40	0.1	23
Sawmills and planing mills (SIC 2420)			
Scientific and technical personnel	1,870	1.1	(nc)
Managers of scientific and technical personnel	230	0.1	(nc)
Computer and information systems managers	120	0.1	8
Engineering managers	110	0.1	9
Scientists	1,110	0.6	(nc)
Computer scientists	160	0.1	(nc)
Network and computer systems administrators	160	0.1	5
Life scientists	920	0.5	(nc)
Foresters	920	0.5	7
Physical scientists	30	<	(nc)
Environmental scientists and specialists, including health	30	<	21
Engineers	160	0.1	(nc)
Industrial	100	0.1	11
Mechanical	60	<	19
Technicians	370	0.2	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	6
Engineering technicians	160	0.1	(nc)
Electronical/electronics engineering technicians	80	0.1	37
Industrial engineering technicians	40	<	24
Mechanical engineering technicians	40	<	40
Physical and life science technicians	110	0.1	(nc)
Forest and conservation technicians	110	0.1	20
Millwork, plywood & structural members (SIC 2430)			
Scientific and technical personnel	5,060	1.6	(nc)
Managers of scientific and technical personnel	900	0.3	(nc)
Computer and information systems managers	410	0.1	11
Engineering managers	490	0.2	8

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Millwork, plywood & structural members (SIC 2430) -- continued:			
Scientists	520	0.2	(nc)
Computer scientists	330	0.1	(nc)
Network and computer systems administrators	330	0.1	26
Life scientists	140	<	(nc)
Foresters	140	<	29
Social scientists	50	<	(nc)
Market research analysts	50	<	36
Engineers	1,480	0.5	(nc)
Civil	90	<	36
Industrial	800	0.2	16
Mechanical	260	0.1	11
Sales	290	0.1	47
Other engineers	40	<	(nc)
Metallurgical/metallurgists	40	<	24
Technicians	2,160	0.7	(nc)
Computer, numerical tool, and process control programmers	500	0.2	(nc)
Computer programmers	390	0.1	24
Numerical tool and process control programmers	110	<	36
Drafters	940	0.3	(nc)
Architectural and civil drafters	290	0.1	19
Electrical and electronics drafters	160	0.1	20
Mechanical drafters	490	0.2	16
Engineering technicians	630	0.2	(nc)
Industrial engineering technicians	480	0.2	16
Mechanical engineering technicians	150	0.1	25
Physical and life science technicians	90	<	(nc)
Environmental science and protection technicians, including health	90	<	32
Wood containers (SIC 2440)			
Scientific and technical personnel	40	0.1	(nc)
Scientists	40	0.1	(nc)
Life scientists	40	0.1	(nc)
Foresters	40	0.1	27
Wood buildings and mobile homes (SIC 2450)			
Scientific and technical personnel	910	1.1	(nc)
Managers of scientific and technical personnel	220	0.3	(nc)
Computer and information systems managers	30	<	18
Engineering managers	190	0.2	8
Engineers	100	0.1	(nc)
Industrial	100	0.1	27

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Wood buildings and mobile homes (SIC 2450) -- continued:			
Technicians	590	0.7	(nc)
Computer, numerical tool, and process control programmers	30	<	(nc)
Computer programmers	30	<	24
Drafters	390	0.5	(nc)
Architectural and civil drafters	140	0.2	10
Electrical and electronics drafters	140	0.2	20
Mechanical drafters	110	0.1	18
Engineering technicians	170	0.2	(nc)
Industrial engineering technicians	170	0.2	19
Miscellaneous wood products (SIC 2490)			
Scientific and technical personnel	690	0.8	(nc)
Managers of scientific and technical personnel	120	0.1	(nc)
Computer and information systems managers	60	0.1	14
Engineering managers	60	0.1	15
Scientists	130	0.2	(nc)
Computer scientists	50	0.1	(nc)
Network and computer systems administrators	50	0.1	22
Life scientists	80	0.1	(nc)
Foresters	80	0.1	39
Engineers	110	0.1	(nc)
Industrial	60	0.1	20
Mechanical	50	0.1	29
Technicians	330	0.4	(nc)
Computer, numerical tool, and process control programmers	60	0.1	(nc)
Computer programmers	60	0.1	17
Drafters	30	<	(nc)
Electrical and electronics drafters	30	<	34
Engineering technicians	80	0.1	(nc)
Electronical/electronics engineering technicians	30	<	50
Industrial engineering technicians	50	0.1	42
Physical and life science technicians	160	0.2	(nc)
Environmental science and protection technicians, including health	160	0.2	48
Household furniture (SIC 2510)			
Scientific and technical personnel	2,470	0.9	(nc)
Managers of scientific and technical personnel	650	0.2	(nc)
Computer and information systems managers	370	0.1	10
Engineering managers	280	0.1	6
Scientists	220	0.1	(nc)
Computer scientists	220	0.1	(nc)
Computer systems analysts	30	<	6
Network and computer systems administrators	190	0.1	27

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Household furniture (SIC 2510) -- continued:			
Engineers	670	0.2	(nc)
Industrial	450	0.2	7
Mechanical	150	0.1	13
Other engineers	70	<	(nc)
Metallurgical/metallurgists	30	<	27
Safety	40	<	35
Technicians	930	0.3	(nc)
Computer, numerical tool, and process control programmers	510	0.2	(nc)
Computer programmers	330	0.1	14
Numerical tool and process control programmers	180	0.1	27
Drafters	110	<	(nc)
Mechanical drafters	110	<	18
Engineering technicians	280	0.1	(nc)
Industrial engineering technicians	220	0.1	8
Mechanical engineering technicians	60	<	16
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	18
Office furniture (SIC 2520)			
Scientific and technical personnel	2,820	3.5	(nc)
Managers of scientific and technical personnel	490	0.6	(nc)
Computer and information systems managers	230	0.3	7
Engineering managers	260	0.3	8
Scientists	170	0.2	(nc)
Computer scientists	170	0.2	(nc)
Network and computer systems administrators	170	0.2	21
Engineers	1,170	1.5	(nc)
Industrial	780	1.0	19
Mechanical	340	0.4	19
Sales	50	0.1	23
Technicians	990	1.2	(nc)
Computer, numerical tool, and process control programmers	240	0.3	(nc)
Computer programmers	240	0.3	8
Drafters	220	0.3	(nc)
Electrical and electronics drafters	30	<	19
Mechanical drafters	190	0.2	27
Engineering technicians	530	0.7	(nc)
Industrial engineering technicians	460	0.6	26
Mechanical engineering technicians	70	0.1	28

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Public building & related furniture (SIC 2530)			
Scientific and technical personnel	1,740	3.3	(nc)
Managers of scientific and technical personnel	460	0.9	(nc)
Computer and information systems managers	100	0.2	12
Engineering managers	360	0.7	29
Scientists	120	0.2	(nc)
Computer scientists	120	0.2	(nc)
Computer software, applications	30	0.1	42
Network and computer systems administrators	90	0.2	13
Engineers	580	1.1	(nc)
Industrial	360	0.7	10
Mechanical	220	0.4	14
Technicians	580	1.1	(nc)
Computer, numerical tool, and process control programmers	100	0.2	(nc)
Computer programmers	70	0.1	15
Numerical tool and process control programmers	30	0.1	26
Drafters	90	0.2	(nc)
Mechanical drafters	90	0.2	14
Engineering technicians	390	0.7	(nc)
Industrial engineering technicians	300	0.6	36
Mechanical engineering technicians	90	0.2	33
Partitions and fixtures (SIC 2540)			
Scientific and technical personnel	1,990	2.2	(nc)
Managers of scientific and technical personnel	290	0.3	(nc)
Computer and information systems managers	90	0.1	12
Engineering managers	200	0.2	12
Scientists	140	0.2	(nc)
Computer scientists	140	0.2	(nc)
Computer systems analysts	40	<	39
Network and computer systems administrators	100	0.1	9
Engineers	510	0.6	(nc)
Industrial	330	0.4	10
Mechanical	180	0.2	14
Technicians	1,050	1.2	(nc)
Computer, numerical tool, and process control programmers	260	0.3	(nc)
Computer programmers	100	0.1	15
Numerical tool and process control programmers	160	0.2	26

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Partitions and fixtures (SIC 2540) -- continued:			
Drafters	530	0.6	(nc)
Architectural and civil drafters	110	0.1	30
Electrical and electronics drafters	60	0.1	24
Mechanical drafters	360	0.4	15
Engineering technicians	260	0.3	(nc)
Industrial engineering technicians	260	0.3	16
Miscellaneous furniture and fixtures (SIC 2590)			
Scientific and technical personnel	730	1.8	(nc)
Managers of scientific and technical personnel	170	0.4	(nc)
Computer and information systems managers	80	0.2	11
Engineering managers	90	0.2	10
Scientists	50	0.1	(nc)
Computer scientists	50	0.1	(nc)
Network and computer systems administrators	50	0.1	11
Engineers	270	0.7	(nc)
Industrial	120	0.3	26
Mechanical	100	0.2	21
Sales	50	0.1	34
Technicians	240	0.6	(nc)
Computer, numerical tool, and process control programmers	50	0.1	(nc)
Computer programmers	50	0.1	17
Drafters	80	0.2	(nc)
Mechanical drafters	80	0.2	20
Engineering technicians	110	0.3	(nc)
Industrial engineering technicians	50	0.1	25
Mechanical engineering technicians	60	0.1	48
Pulp mills (SIC 2610)			
Scientific and technical personnel	550	5.3	(nc)
Managers of scientific and technical personnel	70	0.7	(nc)
Computer and information systems managers	30	0.3	19
Engineering managers	40	0.4	26
Scientists	80	0.8	(nc)
Computer scientists	80	0.8	(nc)
Computer systems analysts	80	0.8	20

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Pulp mills (SIC 2610) -- continued:			
Engineers	250	2.4	(nc)
Electrical/electronics	50	0.5	(nc)
Electrical	50	0.5	24
Industrial	40	0.4	14
Mechanical	40	0.4	16
Other engineers	120	1.1	(nc)
Chemical	80	0.8	13
Environmental	40	0.4	19
Technicians	150	1.4	(nc)
Engineering technicians	120	1.2	(nc)
Electronical/electronics engineering technicians	120	1.2	45
Physical and life science technicians	30	0.3	(nc)
Environmental science and protection technicians, including health	30	0.3	27
Paper mills (SIC 2620)			
Scientific and technical personnel	8,160	6.2	(nc)
Managers of scientific and technical personnel	790	0.6	(nc)
Computer and information systems managers	320	0.2	18
Engineering managers	400	0.3	12
Natural sciences managers	70	0.1	41
Scientists	1,490	1.1	(nc)
Computer scientists	810	0.6	(nc)
Computer software, applications	190	0.1	19
Computer software, systems	90	0.1	22
Computer systems analysts	330	0.3	12
Network and computer systems administrators	200	0.2	18
Life scientists	300	0.2	(nc)
Foresters	300	0.2	23
Physical scientists	380	0.3	(nc)
Chemists	380	0.3	37
Engineers	3,830	2.9	(nc)
Civil	130	0.1	22
Electrical/electronics	380	0.3	(nc)
Electrical	380	0.3	14
Industrial	1,280	1.0	15
Mechanical	920	0.7	14
Sales	50	<	2
Other engineers	1,070	0.8	(nc)
Chemical	620	0.5	14
Environmental	250	0.2	10
Metallurgical/metallurgists	60	0.1	13
Safety	140	0.1	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Paper mills (SIC 2620) -- continued:			
Technicians	2,050	1.5	(nc)
Computer, numerical tool, and process control programmers	640	0.5	(nc)
Computer programmers	640	0.5	40
Drafters	40	<	(nc)
Mechanical drafters	40	<	17
Engineering technicians	780	0.6	(nc)
Environmental engineering technicians	140	0.1	18
Industrial engineering technicians	640	0.5	19
Physical and life science technicians	590	0.4	(nc)
Chemical technicians, except health	520	0.4	13
Environmental science and protection technicians, including health	70	0.1	16
Paperboard mills (SIC 2630)			
Scientific and technical personnel	1,930	4.3	(nc)
Managers of scientific and technical personnel	180	0.4	(nc)
Computer and information systems managers	30	0.1	12
Engineering managers	150	0.3	11
Scientists	160	0.4	(nc)
Computer scientists	110	0.3	(nc)
Computer systems analysts	80	0.2	18
Network and computer systems administrators	30	0.1	16
Physical scientists	50	0.1	(nc)
Chemists	50	0.1	13
Engineers	1,160	2.6	(nc)
Electrical/electronics	110	0.3	(nc)
Electrical	110	0.3	13
Industrial	320	0.7	11
Mechanical	380	0.9	14
Other engineers	350	0.8	(nc)
Chemical	130	0.3	11
Environmental	170	0.4	14
Safety	50	0.1	12
Technicians	430	1.0	(nc)
Computer, numerical tool, and process control programmers	50	0.1	(nc)
Computer programmers	50	0.1	6
Drafters	40	0.1	(nc)
Mechanical drafters	40	0.1	22
Engineering technicians	140	0.3	(nc)
Environmental engineering technicians	40	0.1	40
Industrial engineering technicians	100	0.2	27
Physical and life science technicians	200	0.5	(nc)
Chemical technicians, except health	130	0.3	20
Environmental science and protection technicians, including health	70	0.2	39

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Paperboard containers and boxes (SIC 2650)			
Scientific and technical personnel	1,770	0.8	(nc)
Managers of scientific and technical personnel	340	0.2	(nc)
Computer and information systems managers	170	0.1	11
Engineering managers	170	0.1	10
Scientists	220	0.1	(nc)
Computer scientists	220	0.1	(nc)
Computer systems analysts	70	<	19
Network and computer systems administrators	150	0.1	11
Engineers	610	0.3	(nc)
Industrial	210	0.1	11
Mechanical	100	0.1	15
Sales	90	<	22
Other engineers	210	0.1	(nc)
Metallurgical/metallurgists	120	0.1	25
Safety	90	<	12
Technicians	600	0.3	(nc)
Computer, numerical tool, and process control programmers	160	0.1	(nc)
Computer programmers	160	0.1	25
Drafters	240	0.1	(nc)
Mechanical drafters	240	0.1	14
Engineering technicians	200	0.1	(nc)
Industrial engineering technicians	200	0.1	26
Misc. converted paper products (SIC 2670)			
Scientific and technical personnel	4,460	1.9	(nc)
Managers of scientific and technical personnel	1,200	0.5	(nc)
Computer and information systems managers	640	0.3	3
Engineering managers	560	0.2	5
Scientists	1,380	0.6	(nc)
Computer scientists	660	0.3	(nc)
Computer systems analysts	300	0.1	10
Network and computer systems administrators	360	0.2	7
Physical scientists	720	0.3	(nc)
Chemists	680	0.3	13
Materials scientists	40	<	27

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. converted paper products (SIC 2670) -- continued:			
Engineers	960	0.4	(nc)
Electrical/electronics	160	0.1	(nc)
Electrical	160	0.1	7
Mechanical	310	0.1	8
Sales	100	<	20
Other engineers	390	0.2	(nc)
Chemical	110	0.1	19
Environmental	60	<	10
Metallurgical/metallurgists	110	0.1	17
Safety	110	0.1	11
Technicians	920	0.4	(nc)
Computer, numerical tool, and process control programmers	280	0.1	(nc)
Computer programmers	280	0.1	8
Drafters	80	<	(nc)
Mechanical drafters	80	<	18
Engineering technicians	250	0.1	(nc)
Electronical/electronics engineering technicians	110	0.1	14
Mechanical engineering technicians	140	0.1	11
Physical and life science technicians	310	0.1	(nc)
Chemical technicians, except health	310	0.1	19
Newspapers (SIC 2710)			
Scientific and technical personnel	8,570	2.0	(nc)
Managers of scientific and technical personnel	1,580	0.4	(nc)
Computer and information systems managers	1,530	0.3	8
Engineering managers	50	<	21
Scientists	5,040	1.2	(nc)
Computer scientists	4,310	1.0	(nc)
Computer software, applications	310	0.1	23
Computer software, systems	210	0.1	20
Computer systems analysts	1,490	0.3	11
Network and computer systems administrators	1,510	0.3	7
Network systems/data communications analysts	790	0.2	23
Mathematical scientists	30	<	(nc)
Operations and systems researchers and analysts	30	<	24
Social scientists	700	0.2	(nc)
Market research analysts	700	0.2	18
Engineers	70	<	(nc)
Industrial	40	<	20
Mechanical	30	<	26

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Newspapers (SIC 2710) -- continued:			
Technicians	1,880	0.4	(nc)
Computer, numerical tool, and process control programmers	1,490	0.3	(nc)
Computer programmers	1,490	0.3	10
Engineering technicians	390	0.1	(nc)
Electronical/electronics engineering technicians	140	<	28
All other engineering technicians	250	0.1	(nc)
Audio and video equipment technicians	250	0.1	23
Periodicals (SIC 2720)			
Scientific and technical personnel	6,130	4.2	(nc)
Managers of scientific and technical personnel	740	0.5	(nc)
Computer and information systems managers	740	0.5	6
Scientists	3,590	2.4	(nc)
Computer scientists	2,580	1.8	(nc)
Computer software, applications	230	0.2	27
Computer systems analysts	1,100	0.7	13
Network and computer systems administrators	900	0.6	8
Network systems/data communications analysts	350	0.2	16
Social scientists	1,010	0.7	(nc)
Market research analysts	1,010	0.7	21
Engineers	90	0.1	(nc)
Industrial	90	0.1	42
Technicians	1,710	1.2	(nc)
Computer, numerical tool, and process control programmers	1,650	1.1	(nc)
Computer programmers	1,650	1.1	11
Engineering technicians	60	<	(nc)
All other engineering technicians	60	<	(nc)
Audio and video equipment technicians	60	<	38
Books (SIC 2730)			
Scientific and technical personnel	3,660	3.0	(nc)
Managers of scientific and technical personnel	750	0.6	(nc)
Computer and information systems managers	670	0.5	8
Engineering managers	50	<	27
Natural sciences managers	30	<	49
Scientists	2,040	1.7	(nc)
Computer scientists	1,190	1.0	(nc)
Computer systems analysts	440	0.4	11
Network and computer systems administrators	570	0.5	12
Network systems/data communications analysts	180	0.2	14
Social scientists	850	0.7	(nc)
Market research analysts	850	0.7	18

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Books (SIC 2730) -- continued:			
Engineers	180	0.2	(nc)
Industrial	180	0.2	23
Technicians	690	0.6	(nc)
Computer, numerical tool, and process control programmers	660	0.5	(nc)
Computer programmers	660	0.5	11
Engineering technicians	30	<	(nc)
All other engineering technicians	30	<	(nc)
Audio and video equipment technicians	30	<	32
Miscellaneous publishing (SIC 2740)			
Scientific and technical personnel	6,000	6.3	(nc)
Managers of scientific and technical personnel	690	0.7	(nc)
Computer and information systems managers	590	0.6	13
Engineering managers	100	0.1	33
Scientists	3,460	3.6	(nc)
Computer scientists	2,900	3.0	(nc)
Computer software, applications	1,050	1.1	30
Computer software, systems	480	0.5	35
Computer systems analysts	440	0.5	19
Network and computer systems administrators	770	0.8	13
Network systems/data communications analysts	160	0.2	24
Mathematical scientists	30	<	(nc)
Statisticians	30	<	46
Social scientists	530	0.6	(nc)
Market research analysts	530	0.6	16
Engineers	150	0.2	(nc)
Electrical/electronics	150	0.2	(nc)
Electrical	100	0.1	36
Electronics	50	0.1	46
Technicians	1,700	1.8	(nc)
Computer, numerical tool, and process control programmers	1,220	1.3	(nc)
Computer programmers	1,220	1.3	11
Engineering technicians	60	0.1	(nc)
All other engineering technicians	60	0.1	(nc)
Audio and video equipment technicians	60	0.1	22
Surveying, cartographic, photogrammetric, and mapping technicians	420	0.4	(nc)
Cartographers and photogrammetrists	240	0.3	26
Surveying and mapping technicians	180	0.2	42

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Commercial printing (SIC 2750)			
Scientific and technical personnel	5,490	1.0	(nc)
Managers of scientific and technical personnel	1,110	0.2	(nc)
Computer and information systems managers	870	0.2	4
Engineering managers	240	<	11
Scientists	1,860	0.3	(nc)
Computer scientists	1,700	0.3	(nc)
Computer software, applications	110	<	22
Computer systems analysts	740	0.1	13
Network and computer systems administrators	710	0.1	5
Network systems/data communications analysts	140	<	26
Social scientists	160	<	(nc)
Market research analysts	160	<	18
Engineers	510	0.1	(nc)
Industrial	290	0.1	9
Mechanical	150	<	16
Other engineers	70	<	(nc)
Metallurgical/metallurgists	70	<	17
Technicians	2,010	0.4	(nc)
Computer, numerical tool, and process control programmers	1,690	0.3	(nc)
Computer programmers	1,660	0.3	9
Numerical tool and process control programmers	30	<	34
Engineering technicians	320	0.1	(nc)
Electronical/electronics engineering technicians	140	<	16
Industrial engineering technicians	180	<	16
Manifold business forms (SIC 2760)			
Scientific and technical personnel	770	1.8	(nc)
Managers of scientific and technical personnel	120	0.3	(nc)
Computer and information systems managers	90	0.2	14
Engineering managers	30	0.1	23
Scientists	300	0.7	(nc)
Computer scientists	300	0.7	(nc)
Computer systems analysts	210	0.5	18
Network and computer systems administrators	90	0.2	19
Technicians	350	0.8	(nc)
Computer, numerical tool, and process control programmers	310	0.7	(nc)
Computer programmers	310	0.7	23
Engineering technicians	40	0.1	(nc)
Electronical/electronics engineering technicians	40	0.1	33

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Greeting cards (SIC 2770)			
Scientific and technical personnel	490	2.0	(nc)
Managers of scientific and technical personnel	100	0.4	(nc)
Computer and information systems managers	100	0.4	34
Scientists	390	1.6	(nc)
Computer scientists	390	1.6	(nc)
Computer systems analysts	110	0.5	32
Network and computer systems administrators	280	1.1	37
Blankbooks and bookbinding (SIC 2780)			
Scientific and technical personnel	800	1.4	(nc)
Managers of scientific and technical personnel	120	0.2	(nc)
Computer and information systems managers	120	0.2	37
Scientists	390	0.7	(nc)
Computer scientists	390	0.7	(nc)
Computer systems analysts	280	0.5	40
Network and computer systems administrators	110	0.2	14
Engineers	50	0.1	(nc)
Mechanical	50	0.1	32
Technicians	240	0.4	(nc)
Computer, numerical tool, and process control programmers	110	0.2	(nc)
Computer programmers	110	0.2	24
Engineering technicians	130	0.2	(nc)
Electronical/electronics engineering technicians	70	0.1	33
Industrial engineering technicians	60	0.1	37
Printing trade services (SIC 2790)			
Scientific and technical personnel	820	1.8	(nc)
Managers of scientific and technical personnel	150	0.3	(nc)
Computer and information systems managers	150	0.3	10
Scientists	280	0.6	(nc)
Computer scientists	280	0.6	(nc)
Computer software, systems	50	0.1	35
Computer systems analysts	100	0.2	34
Network and computer systems administrators	130	0.3	13
Technicians	390	0.9	(nc)
Computer, numerical tool, and process control programmers	390	0.9	(nc)
Computer programmers	390	0.9	16

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Industrial inorganic chemicals (SIC 2810)			
Scientific and technical personnel	12,500	13.1	(nc)
Managers of scientific and technical personnel	1,150	1.2	(nc)
Computer and information systems managers	300	0.3	19
Engineering managers	660	0.7	11
Natural sciences managers	190	0.2	25
Scientists	3,010	3.2	(nc)
Computer scientists	620	0.7	(nc)
Computer systems analysts	470	0.5	28
Network and computer systems administrators	150	0.2	12
Physical scientists	2,390	2.5	(nc)
Chemists	2,260	2.4	10
Environmental scientists and specialists, including health	70	0.1	23
Materials scientists	60	0.1	50
Engineers	4,700	4.9	(nc)
Civil	50	0.1	37
Electrical/electronics	80	0.1	(nc)
Electrical	80	0.1	15
Industrial	230	0.2	13
Mechanical	440	0.5	14
Sales	390	0.4	24
Other engineers	3,510	3.7	(nc)
Chemical	2,970	3.1	25
Environmental	200	0.2	15
Metallurgical/metallurgists	40	<	45
Safety	300	0.3	17
Technicians	3,640	3.8	(nc)
Computer, numerical tool, and process control programmers	120	0.1	(nc)
Computer programmers	120	0.1	16
Drafters	80	0.1	(nc)
Mechanical drafters	80	0.1	18
Engineering technicians	720	0.8	(nc)
Electronical/electronics engineering technicians	180	0.2	19
Environmental engineering technicians	40	<	23
Industrial engineering technicians	500	0.5	27
Physical and life science technicians	2,720	2.9	(nc)
Chemical technicians, except health	2,570	2.7	8
Environmental science and protection technicians, including health	150	0.2	15
Plastics materials and synthetics (SIC 2820)			
Scientific and technical personnel	20,930	13.9	(nc)
Managers of scientific and technical personnel	1,350	0.9	(nc)
Computer and information systems managers	330	0.2	10
Engineering managers	810	0.5	10
Natural sciences managers	210	0.1	19

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Plastics materials and synthetics (SIC 2820) -- continued:			
Scientists	4,700	3.1	(nc)
Computer scientists	1,390	0.9	(nc)
Computer software, applications	90	0.1	45
Computer software, systems	190	0.1	14
Computer systems analysts	830	0.6	20
Network and computer systems administrators	200	0.1	8
Network systems/data communications analysts	80	0.1	41
Mathematical scientists	330	0.2	(nc)
Operations and systems researchers and analysts	330	0.2	37
Physical scientists	2,900	1.9	(nc)
Chemists	2,470	1.6	18
Environmental scientists and specialists, including health	130	0.1	22
Materials scientists	300	0.2	25
Social scientists	80	0.1	(nc)
Market research analysts	80	0.1	29
Engineers	7,230	4.8	(nc)
Civil	120	0.1	24
Computer	50	<	41
Electrical/electronics	240	0.2	(nc)
Electrical	200	0.1	15
Electronics	40	<	31
Industrial	1,010	0.7	12
Mechanical	1,460	1.0	15
Sales	180	0.1	18
Other engineers	4,170	2.8	(nc)
Chemical	3,060	2.0	11
Environmental	420	0.3	13
Metallurgical/metallurgists	220	0.2	24
Safety	470	0.3	10
Technicians	7,650	5.1	(nc)
Computer, numerical tool, and process control programmers	110	0.1	(nc)
Computer programmers	110	0.1	34
Drafters	80	0.1	(nc)
Mechanical drafters	80	0.1	14
Engineering technicians	1,290	0.9	(nc)
Electronical/electronics engineering technicians	260	0.2	17
Environmental engineering technicians	120	0.1	21
Industrial engineering technicians	580	0.4	25
Mechanical engineering technicians	330	0.2	37
Physical and life science technicians	6,170	4.1	(nc)
Chemical technicians, except health	6,040	4.0	10
Environmental science and protection technicians, including health	130	0.1	23

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Drugs (SIC 2830)			
Scientific and technical personnel	65,400	20.9	(nc)
Managers of scientific and technical personnel	6,230	2.0	(nc)
Computer and information systems managers	1,590	0.5	16
Engineering managers	1,850	0.6	10
Natural sciences managers	2,790	0.9	11
Scientists	31,670	10.1	(nc)
Computer scientists	2,750	0.9	(nc)
Computer and information scientists, research	30	<	32
Computer software, applications	330	0.1	19
Computer systems analysts	1,460	0.5	8
Network and computer systems administrators	860	0.3	8
Network systems/data communications analysts	70	<	15
Life scientists	11,640	3.7	(nc)
Agricultural scientists	80	<	46
Biochemists and biophysicists	4,940	1.6	17
Medical scientists, except epidemiologists	3,110	1.0	17
Microbiologists	3,510	1.1	10
Mathematical scientists	290	0.1	(nc)
Mathematicians	40	<	25
Statisticians	250	0.1	32
Physical scientists	16,420	5.3	(nc)
Chemists	15,950	5.1	8
Environmental scientists and specialists, including health	260	0.1	29
Materials scientists	210	0.1	21
Social scientists	570	0.2	(nc)
Market research analysts	570	0.2	30
Engineers	8,400	2.7	(nc)
Civil	70	<	19
Electrical/electronics	730	0.2	(nc)
Electrical	180	0.1	18
Electronics	550	0.2	32
Industrial	1,660	0.5	8
Mechanical	560	0.2	12
Sales	30	<	37
Other engineers	5,350	1.7	(nc)
Biomedical	770	0.3	27
Chemical	3,070	1.0	19
Environmental	550	0.2	24
Metallurgical/metallurgists	100	<	29
Safety	860	0.3	19

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Drugs (SIC 2830) -- continued:			
Technicians	19,100	6.1	(nc)
Computer, numerical tool, and process control programmers	900	0.3	(nc)
Computer programmers	900	0.3	11
Drafters	420	0.1	(nc)
Electrical and electronics drafters	70	<	36
Mechanical drafters	350	0.1	24
Engineering technicians	2,510	0.8	(nc)
Electronical/electronics engineering technicians	1,020	0.3	20
Environmental engineering technicians	40	<	23
Industrial engineering technicians	910	0.3	14
Mechanical engineering technicians	540	0.2	22
Physical and life science technicians	15,270	4.9	(nc)
Agricultural and food science technicians	90	<	44
Biological technicians	6,150	2.0	13
Chemical technicians, except health	8,670	2.8	10
Environmental science and protection technicians, including health	270	0.1	26
Nuclear technicians	90	<	34
Soap, cleaners, and toilet goods (SIC 2840)			
Scientific and technical personnel	12,310	7.9	(nc)
Managers of scientific and technical personnel	1,110	0.7	(nc)
Computer and information systems managers	320	0.2	14
Engineering managers	360	0.2	10
Natural sciences managers	430	0.3	19
Scientists	5,870	3.8	(nc)
Computer scientists	1,150	0.7	(nc)
Computer software, applications	120	0.1	34
Computer software, systems	30	<	36
Computer systems analysts	590	0.4	37
Network and computer systems administrators	360	0.2	19
Network systems/data communications analysts	50	<	45
Life scientists	260	0.2	(nc)
Microbiologists	260	0.2	23
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	45
Physical scientists	4,210	2.7	(nc)
Chemists	4,010	2.6	18
Environmental scientists and specialists, including health	40	<	33
Materials scientists	160	0.1	26
Social scientists	200	0.1	(nc)
Market research analysts	200	0.1	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Soap, cleaners, and toilet goods (SIC 2840) -- continued:			
Engineers	1,620	1.0	(nc)
Civil	60	<	37
Electrical/electronics	60	<	(nc)
Electrical	60	<	32
Industrial	460	0.3	13
Mechanical	220	0.1	21
Sales	50	<	35
Other engineers	770	0.5	(nc)
Chemical	520	0.3	11
Environmental	70	<	21
Metallurgical/metallurgists	40	<	27
Safety	140	0.1	12
Technicians	3,710	2.4	(nc)
Computer, numerical tool, and process control programmers	540	0.4	(nc)
Computer programmers	540	0.4	21
Engineering technicians	430	0.3	(nc)
Electronical/electronics engineering technicians	120	0.1	25
Environmental engineering technicians	30	<	37
Industrial engineering technicians	180	0.1	27
Mechanical engineering technicians	100	0.1	31
Physical and life science technicians	2,740	1.8	(nc)
Biological technicians	150	0.1	39
Chemical technicians, except health	2,520	1.6	14
Environmental science and protection technicians, including health	70	<	12
Paints and allied products (SIC 2850)			
Scientific and technical personnel	5,270	10.4	(nc)
Managers of scientific and technical personnel	350	0.7	(nc)
Computer and information systems managers	80	0.2	11
Engineering managers	190	0.4	14
Natural sciences managers	80	0.2	16
Scientists	2,210	4.4	(nc)
Computer scientists	110	0.2	(nc)
Computer systems analysts	40	0.1	15
Network and computer systems administrators	70	0.1	12
Physical scientists	2,100	4.1	(nc)
Chemists	1,970	3.9	12
Environmental scientists and specialists, including health	90	0.2	21
Materials scientists	40	0.1	22

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Paints and allied products (SIC 2850) -- continued:			
Engineers	880	1.7	(nc)
Industrial	130	0.3	23
Mechanical	30	0.1	28
Sales	170	0.3	23
Other engineers	550	1.1	(nc)
Chemical	270	0.5	12
Environmental	180	0.4	23
Metallurgical/metallurgists	50	0.1	41
Safety	50	0.1	16
Technicians	1,830	3.6	(nc)
Computer, numerical tool, and process control programmers	90	0.2	(nc)
Computer programmers	90	0.2	19
Engineering technicians	80	0.2	(nc)
Environmental engineering technicians	50	0.1	44
Industrial engineering technicians	30	0.1	28
Physical and life science technicians	1,660	3.3	(nc)
Biological technicians	60	0.1	42
Chemical technicians, except health	1,600	3.2	7
Industrial organic chemicals (SIC 2860)			
Scientific and technical personnel	23,800	20.1	(nc)
Managers of scientific and technical personnel	1,780	1.5	(nc)
Computer and information systems managers	630	0.5	15
Engineering managers	830	0.7	17
Natural sciences managers	320	0.3	25
Scientists	6,190	5.2	(nc)
Computer scientists	960	0.8	(nc)
Computer and information scientists, research	60	0.1	35
Computer software, applications	30	<	31
Computer software, systems	50	<	35
Computer systems analysts	480	0.4	15
Network and computer systems administrators	180	0.2	17
Network systems/data communications analysts	160	0.1	25
Life scientists	1,250	1.1	(nc)
Biochemists and biophysicists	700	0.6	32
Microbiologists	550	0.5	46
Mathematical scientists	120	0.1	(nc)
Operations and systems researchers and analysts	80	0.1	32
Statisticians	40	<	42
Physical scientists	3,820	3.2	(nc)
Chemists	3,550	3.0	16
Environmental scientists and specialists, including health	240	0.2	24
Physicists	30	<	42
Social scientists	40	<	(nc)
Market research analysts	40	<	27

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Industrial organic chemicals (SIC 2860) -- continued:			
Engineers	6,240	5.3	(nc)
Civil	170	0.1	23
Electrical/electronics	310	0.3	(nc)
Electrical	280	0.2	23
Electronics	30	<	35
Industrial	1,000	0.8	13
Mechanical	620	0.5	16
Sales	60	0.1	18
Other engineers	4,080	3.4	(nc)
Chemical	3,030	2.6	9
Environmental	420	0.4	21
Metallurgical/metallurgists	190	0.2	24
Safety	440	0.4	14
Technicians	9,590	8.1	(nc)
Computer, numerical tool, and process control programmers	760	0.6	(nc)
Computer programmers	760	0.6	27
Drafters	210	0.2	(nc)
Mechanical drafters	210	0.2	32
Engineering technicians	1,140	1.0	(nc)
Electronical/electronics engineering technicians	220	0.2	38
Environmental engineering technicians	70	0.1	36
Industrial engineering technicians	360	0.3	37
Mechanical engineering technicians	490	0.4	41
Physical and life science technicians	7,480	6.3	(nc)
Biological technicians	870	0.7	45
Chemical technicians, except health	6,390	5.4	14
Environmental science and protection technicians, including health	130	0.1	17
Geological and petroleum technicians	90	0.1	35
Agricultural chemicals (SIC 2870)			
Scientific and technical personnel	4,990	10.2	(nc)
Managers of scientific and technical personnel	320	0.7	(nc)
Computer and information systems managers	60	0.1	21
Engineering managers	120	0.3	13
Natural sciences managers	140	0.3	44
Scientists	1,270	2.6	(nc)
Computer scientists	340	0.7	(nc)
Computer systems analysts	60	0.1	15
Network and computer systems administrators	60	0.1	15
Network systems/data communications analysts	220	0.5	17
Life scientists	30	0.1	(nc)
Agricultural scientists	30	0.1	30
Physical scientists	900	1.9	(nc)
Chemists	860	1.8	45
Environmental scientists and specialists, including health	40	0.1	24

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Agricultural chemicals (SIC 2870) -- continued:			
Engineers	1,890	3.9	(nc)
Electrical/electronics	60	0.1	(nc)
Electrical	30	0.1	16
Electronics	30	0.1	15
Industrial	70	0.1	20
Mechanical	540	1.1	15
Sales	150	0.3	49
Other engineers	1,070	2.2	(nc)
Chemical	660	1.4	11
Environmental	70	0.1	11
Safety	340	0.7	14
Technicians	1,510	3.1	(nc)
Computer, numerical tool, and process control programmers	70	0.1	(nc)
Computer programmers	70	0.1	38
Drafters	40	0.1	(nc)
Mechanical drafters	40	0.1	17
Engineering technicians	170	0.4	(nc)
Environmental engineering technicians	30	0.1	21
Industrial engineering technicians	140	0.3	24
Physical and life science technicians	1,230	2.5	(nc)
Agricultural and food science technicians	70	0.1	32
Chemical technicians, except health	900	1.9	13
Environmental science and protection technicians, including health	260	0.5	29
Miscellaneous chemical products (SIC 2890)			
Scientific and technical personnel	10,890	11.8	(nc)
Managers of scientific and technical personnel	890	1.0	(nc)
Computer and information systems managers	260	0.3	11
Engineering managers	480	0.5	14
Natural sciences managers	150	0.2	17
Scientists	3,030	3.3	(nc)
Computer scientists	330	0.4	(nc)
Computer systems analysts	130	0.1	19
Network and computer systems administrators	200	0.2	11
Physical scientists	2,670	2.9	(nc)
Chemists	2,540	2.8	8
Environmental scientists and specialists, including health	40	<	21
Materials scientists	90	0.1	23
Social scientists	30	<	(nc)
Market research analysts	30	<	33

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous chemical products (SIC 2890) -- continued:			
Engineers	2,470	2.7	(nc)
Electrical/electronics	100	0.1	(nc)
Electrical	70	0.1	20
Electronics	30	<	36
Industrial	430	0.5	13
Mechanical	250	0.3	14
Sales	470	0.5	17
Other engineers	1,220	1.3	(nc)
Chemical	760	0.8	12
Environmental	100	0.1	15
Metallurgical/metallurgists	210	0.2	18
Safety	150	0.2	14
Technicians	4,500	4.9	(nc)
Computer, numerical tool, and process control programmers	110	0.1	(nc)
Computer programmers	110	0.1	18
Drafters	50	0.1	(nc)
Mechanical drafters	50	0.1	21
Engineering technicians	1,030	1.1	(nc)
Electronical/electronics engineering technicians	130	0.1	25
Environmental engineering technicians	70	0.1	47
Industrial engineering technicians	710	0.8	36
Mechanical engineering technicians	120	0.1	30
Physical and life science technicians	3,310	3.6	(nc)
Chemical technicians, except health	3,140	3.4	7
Environmental science and protection technicians, including health	170	0.2	32
Petroleum refining (SIC 2910)			
Scientific and technical personnel	11,460	14.2	(nc)
Managers of scientific and technical personnel	890	1.1	(nc)
Computer and information systems managers	200	0.3	15
Engineering managers	660	0.8	18
Natural sciences managers	30	<	15
Scientists	3,860	4.8	(nc)
Computer scientists	2,610	3.2	(nc)
Computer software, applications	30	<	23
Computer systems analysts	2,360	2.9	19
Network and computer systems administrators	120	0.2	17
Network systems/data communications analysts	100	0.1	13
Physical scientists	1,250	1.5	(nc)
Chemists	630	0.8	10
Environmental scientists and specialists, including health	310	0.4	31
Geoscientists, except hydrologists and geographers	310	0.4	22

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Petroleum refining (SIC 2910) -- continued:			
Engineers	3,650	4.5	(nc)
Civil	200	0.3	17
Electrical/electronics	180	0.2	(nc)
Electrical	180	0.2	20
Industrial	940	1.2	18
Mechanical	370	0.5	15
Other engineers	1,960	2.4	(nc)
Chemical	700	0.9	23
Environmental	270	0.3	15
Metallurgical/metallurgists	70	0.1	19
Petroleum	720	0.9	16
Safety	200	0.3	11
Technicians	3,060	3.8	(nc)
Computer, numerical tool, and process control programmers	570	0.7	(nc)
Computer programmers	570	0.7	20
Drafters	70	0.1	(nc)
Mechanical drafters	70	0.1	25
Engineering technicians	210	0.3	(nc)
Environmental engineering technicians	100	0.1	22
Industrial engineering technicians	110	0.1	17
Physical and life science technicians	2,210	2.7	(nc)
Biological technicians	50	0.1	26
Chemical technicians, except health	1,640	2.0	26
Environmental science and protection technicians, including health	160	0.2	17
Geological and petroleum technicians	360	0.5	44
Asphalt paving and roofing materials (SIC 2950)			
Scientific and technical personnel	460	1.5	(nc)
Managers of scientific and technical personnel	120	0.4	(nc)
Computer and information systems managers	40	0.1	16
Engineering managers	80	0.3	12
Scientists	70	0.2	(nc)
Computer scientists	40	0.1	(nc)
Computer systems analysts	40	0.1	9
Physical scientists	30	0.1	(nc)
Chemists	30	0.1	24
Engineers	150	0.5	(nc)
Civil	40	0.1	17
Industrial	50	0.2	30
Sales	30	0.1	9
Other engineers	30	0.1	(nc)
Safety	30	0.1	21
Technicians	120	0.4	(nc)
Physical and life science technicians	120	0.4	(nc)
Chemical technicians, except health	120	0.4	17

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. petroleum and coal products (SIC 2990)			
Scientific and technical personnel	910	6.9	(nc)
Managers of scientific and technical personnel	30	0.2	(nc)
Engineering managers	30	0.2	16
Scientists	340	2.6	(nc)
Physical scientists	340	2.6	(nc)
Chemists	340	2.6	12
Engineers	150	1.1	(nc)
Sales	120	0.9	28
Other engineers	30	0.2	(nc)
Safety	30	0.2	20
Technicians	390	3.0	(nc)
Physical and life science technicians	390	3.0	(nc)
Chemical technicians, except health	390	3.0	12
Tires and inner tubes (SIC 3010)			
Scientific and technical personnel	2,430	3.3	(nc)
Managers of scientific and technical personnel	250	0.3	(nc)
Computer and information systems managers	50	0.1	23
Engineering managers	200	0.3	15
Scientists	200	0.3	(nc)
Computer scientists	100	0.1	(nc)
Computer systems analysts	60	0.1	19
Network and computer systems administrators	40	0.1	13
Physical scientists	100	0.1	(nc)
Chemists	100	0.1	19
Engineers	1,110	1.5	(nc)
Electrical/electronics	320	0.4	(nc)
Electrical	320	0.4	13
Industrial	350	0.5	11
Mechanical	380	0.5	13
Other engineers	60	0.1	(nc)
Chemical	30	<	12
Safety	30	<	10

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Tires and inner tubes (SIC 3010) -- continued:			
Technicians	870	1.2	(nc)
Computer, numerical tool, and process control programmers	40	0.1	(nc)
Computer programmers	40	0.1	15
Engineering technicians	760	1.0	(nc)
Electronical/electronics engineering technicians	310	0.4	16
Electro-mechanical technicians	50	0.1	29
Industrial engineering technicians	30	<	26
Mechanical engineering technicians	370	0.5	16
Physical and life science technicians	70	0.1	(nc)
Chemical technicians, except health	70	0.1	29
Hose & belting & gaskets & packing (SIC 3050)			
Scientific and technical personnel	3,110	4.2	(nc)
Managers of scientific and technical personnel	310	0.4	(nc)
Computer and information systems managers	80	0.1	11
Engineering managers	230	0.3	8
Scientists	230	0.3	(nc)
Computer scientists	140	0.2	(nc)
Computer systems analysts	50	0.1	17
Network and computer systems administrators	90	0.1	12
Physical scientists	90	0.1	(nc)
Chemists	90	0.1	13
Engineers	1,640	2.2	(nc)
Electrical/electronics	40	0.1	(nc)
Electrical	40	0.1	14
Industrial	650	0.9	8
Mechanical	410	0.6	20
Sales	230	0.3	21
Other engineers	310	0.4	(nc)
Chemical	90	0.1	15
Environmental	30	<	22
Metallurgical/metallurgists	130	0.2	16
Safety	60	0.1	25
Technicians	930	1.3	(nc)
Computer, numerical tool, and process control programmers	200	0.3	(nc)
Computer programmers	60	0.1	17
Numerical tool and process control programmers	140	0.2	38
Drafters	100	0.1	(nc)
Mechanical drafters	100	0.1	12
Engineering technicians	380	0.5	(nc)
Electronical/electronics engineering technicians	30	<	14
Industrial engineering technicians	250	0.3	21
Mechanical engineering technicians	100	0.1	14
Physical and life science technicians	250	0.3	(nc)
Chemical technicians, except health	250	0.3	18

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Fabricated rubber products, n.e.c. (SIC 3060)			
Scientific and technical personnel	4,070	3.8	(nc)
Managers of scientific and technical personnel	530	0.5	(nc)
Computer and information systems managers	140	0.1	9
Engineering managers	390	0.4	11
Scientists	530	0.5	(nc)
Computer scientists	110	0.1	(nc)
Network and computer systems administrators	110	0.1	11
Physical scientists	420	0.4	(nc)
Chemists	420	0.4	13
Engineers	1,720	1.6	(nc)
Industrial	670	0.6	7
Mechanical	630	0.6	6
Sales	120	0.1	9
Other engineers	300	0.3	(nc)
Chemical	210	0.2	9
Safety	90	0.1	10
Technicians	1,290	1.2	(nc)
Computer, numerical tool, and process control programmers	160	0.2	(nc)
Computer programmers	160	0.2	9
Engineering technicians	670	0.6	(nc)
Industrial engineering technicians	370	0.4	9
Mechanical engineering technicians	300	0.3	11
Physical and life science technicians	460	0.4	(nc)
Chemical technicians, except health	460	0.4	11
Miscellaneous plastics products, n.e.c. (SIC 3080)			
Scientific and technical personnel	24,410	3.3	(nc)
Managers of scientific and technical personnel	3,270	0.4	(nc)
Computer and information systems managers	1,020	0.1	5
Engineering managers	2,190	0.3	4
Natural sciences managers	60	<	21
Scientists	2,400	0.3	(nc)
Computer scientists	1,550	0.2	(nc)
Computer software, applications	240	<	28
Computer software, systems	40	<	40
Computer systems analysts	480	0.1	11
Network and computer systems administrators	630	0.1	6
Network systems/data communications analysts	160	<	17
Physical scientists	720	0.1	(nc)
Chemists	490	0.1	11
Materials scientists	230	<	28
Social scientists	130	<	(nc)
Market research analysts	130	<	26

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous plastics products, n.e.c. (SIC 3080) -- continued:			
Engineers	11,650	1.6	(nc)
Civil	70	<	28
Computer	40	<	29
Electrical/electronics	460	0.1	(nc)
Electrical	390	0.1	9
Electronics	70	<	17
Industrial	5,130	0.7	7
Mechanical	3,060	0.4	6
Sales	1,150	0.2	13
Other engineers	1,740	0.2	(nc)
Chemical	570	0.1	10
Environmental	110	<	12
Metallurgical/metallurgists	700	0.1	8
Safety	360	0.1	7
Technicians	7,090	1.0	(nc)
Computer, numerical tool, and process control programmers	1,550	0.2	(nc)
Computer programmers	520	0.1	12
Numerical tool and process control programmers	1,030	0.1	17
Drafters	860	0.1	(nc)
Architectural and civil drafters	60	<	38
Electrical and electronics drafters	40	<	27
Mechanical drafters	760	0.1	7
Engineering technicians	3,570	0.5	(nc)
Electronical/electronics engineering technicians	430	0.1	13
Electro-mechanical technicians	410	0.1	25
Environmental engineering technicians	80	<	21
Industrial engineering technicians	1,800	0.2	6
Mechanical engineering technicians	850	0.1	15
Physical and life science technicians	1,110	0.2	(nc)
Chemical technicians, except health	1,050	0.1	14
Environmental science and protection technicians, including health	60	<	15
Leather tanning and finishing (SIC 3110)			
Scientific and technical personnel	50	0.6	(nc)
Technicians	50	0.6	(nc)
Physical and life science technicians	50	0.6	(nc)
Chemical technicians, except health	50	0.6	21
Footwear, except rubber (SIC 3140)			
Scientific and technical personnel	240	0.9	(nc)
Managers of scientific and technical personnel	50	0.2	(nc)
Computer and information systems managers	50	0.2	23
Scientists	90	0.3	(nc)
Computer scientists	90	0.3	(nc)
Computer systems analysts	90	0.3	36

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Footwear, except rubber (SIC 3140) -- continued:			
Engineers	40	0.1	(nc)
Industrial	40	0.1	12
Technicians	60	0.2	(nc)
Computer, numerical tool, and process control programmers	60	0.2	(nc)
Computer programmers	60	0.2	4
Luggage (SIC 3160)			
Scientific and technical personnel	100	1.1	(nc)
Scientists	40	0.4	(nc)
Social scientists	40	0.4	(nc)
Market research analysts	40	0.4	33
Engineers	30	0.3	(nc)
Industrial	30	0.3	22
Technicians	30	0.3	(nc)
Computer, numerical tool, and process control programmers	30	0.3	(nc)
Computer programmers	30	0.3	20
Flat glass (SIC 3210)			
Scientific and technical personnel	200	1.5	(nc)
Managers of scientific and technical personnel	40	0.3	(nc)
Engineering managers	40	0.3	13
Engineers	120	0.9	(nc)
Electrical/electronics	40	0.3	(nc)
Electrical	40	0.3	19
Mechanical	50	0.4	15
Other engineers	30	0.2	(nc)
Metallurgical/metallurgists	30	0.2	28
Technicians	40	0.3	(nc)
Engineering technicians	40	0.3	(nc)
Electronical/electronics engineering technicians	40	0.3	23
Glass and glassware, pressed or blown (SIC 3220)			
Scientific and technical personnel	2,940	4.4	(nc)
Managers of scientific and technical personnel	350	0.5	(nc)
Computer and information systems managers	90	0.1	8
Engineering managers	260	0.4	8
Scientists	240	0.4	(nc)
Computer scientists	240	0.4	(nc)
Computer software, applications	150	0.2	8
Computer systems analysts	50	0.1	33
Network and computer systems administrators	40	0.1	14

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Glass and glassware, pressed or blown (SIC 3220) -- continued:			
Engineers	1,230	1.8	(nc)
Electrical/electronics	230	0.3	(nc)
Electrical	180	0.3	13
Electronics	50	0.1	43
Industrial	220	0.3	9
Mechanical	380	0.6	6
Sales	40	0.1	20
Other engineers	360	0.5	(nc)
Chemical	250	0.4	2
Environmental	50	0.1	16
Metallurgical/metallurgists	60	0.1	20
Technicians	1,120	1.7	(nc)
Computer, numerical tool, and process control programmers	110	0.2	(nc)
Computer programmers	110	0.2	15
Drafters	60	0.1	(nc)
Mechanical drafters	60	0.1	23
Engineering technicians	770	1.2	(nc)
Electronical/electronics engineering technicians	60	0.1	13
Electro-mechanical technicians	290	0.4	37
Industrial engineering technicians	200	0.3	9
Mechanical engineering technicians	220	0.3	19
Physical and life science technicians	180	0.3	(nc)
Chemical technicians, except health	180	0.3	1
Products of purchased glass (SIC 3230)			
Scientific and technical personnel	1,410	2.2	(nc)
Managers of scientific and technical personnel	300	0.5	(nc)
Computer and information systems managers	80	0.1	14
Engineering managers	220	0.3	13
Scientists	130	0.2	(nc)
Computer scientists	130	0.2	(nc)
Computer systems analysts	60	0.1	18
Network and computer systems administrators	70	0.1	18
Engineers	680	1.1	(nc)
Electrical/electronics	80	0.1	(nc)
Electrical	80	0.1	23
Industrial	240	0.4	16
Mechanical	270	0.4	12
Other engineers	90	0.1	(nc)
Metallurgical/metallurgists	90	0.1	17

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Products of purchased glass (SIC 3230) -- continued:			
Technicians	300	0.5	(nc)
Computer, numerical tool, and process control programmers	80	0.1	(nc)
Computer programmers	80	0.1	34
Drafters	40	0.1	(nc)
Mechanical drafters	40	0.1	24
Engineering technicians	180	0.3	(nc)
Electronical/electronics engineering technicians	60	0.1	44
Electro-mechanical technicians	30	0.1	48
Industrial engineering technicians	60	0.1	17
Mechanical engineering technicians	30	0.1	31
Cement, hydraulic (SIC 3240)			
Scientific and technical personnel	1,180	6.8	(nc)
Managers of scientific and technical personnel	90	0.5	(nc)
Computer and information systems managers	50	0.3	19
Engineering managers	40	0.2	18
Scientists	240	1.4	(nc)
Physical scientists	240	1.4	(nc)
Chemists	210	1.2	18
Materials scientists	30	0.2	33
Engineers	390	2.2	(nc)
Electrical/electronics	70	0.4	(nc)
Electrical	70	0.4	13
Industrial	120	0.7	15
Mechanical	70	0.4	19
Other engineers	130	0.8	(nc)
Chemical	40	0.2	20
Environmental	60	0.4	14
Mining and geological	30	0.2	16
Technicians	460	2.7	(nc)
Engineering technicians	100	0.6	(nc)
Electronical/electronics engineering technicians	100	0.6	24
Physical and life science technicians	360	2.1	(nc)
Chemical technicians, except health	360	2.1	14
Structural clay products (SIC 3250)			
Scientific and technical personnel	310	0.9	(nc)
Managers of scientific and technical personnel	80	0.2	(nc)
Computer and information systems managers	40	0.1	21
Engineering managers	40	0.1	17

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Structural clay products (SIC 3250) -- continued:			
Engineers	140	0.4	(nc)
Industrial	60	0.2	20
Mechanical	40	0.1	26
Other engineers	40	0.1	(nc)
Metallurgical/metallurgists	40	0.1	14
Technicians	90	0.3	(nc)
Engineering technicians	30	0.1	(nc)
Industrial engineering technicians	30	0.1	25
Physical and life science technicians	60	0.2	(nc)
Chemical technicians, except health	60	0.2	41
Pottery and related products (SIC 3260)			
Scientific and technical personnel	840	2.2	(nc)
Managers of scientific and technical personnel	150	0.4	(nc)
Computer and information systems managers	40	0.1	16
Engineering managers	110	0.3	12
Engineers	470	1.2	(nc)
Electrical/electronics	50	0.1	(nc)
Electrical	50	0.1	29
Industrial	80	0.2	14
Mechanical	90	0.2	27
Sales	30	0.1	26
Other engineers	220	0.6	(nc)
Chemical	60	0.2	23
Metallurgical/metallurgists	160	0.4	10
Technicians	220	0.6	(nc)
Computer, numerical tool, and process control programmers	40	0.1	(nc)
Computer programmers	40	0.1	28
Drafters	30	0.1	(nc)
Mechanical drafters	30	0.1	15
Engineering technicians	110	0.3	(nc)
Electronical/electronics engineering technicians	40	0.1	36
Industrial engineering technicians	70	0.2	22
Physical and life science technicians	40	0.1	(nc)
Chemical technicians, except health	40	0.1	17
Concrete, gypsum, and plaster products (SIC 3270)			
Scientific and technical personnel	3,690	1.5	(nc)
Managers of scientific and technical personnel	610	0.3	(nc)
Computer and information systems managers	150	0.1	12
Engineering managers	460	0.2	10

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Concrete, gypsum, and plaster products (SIC 3270) -- continued:			
Scientists	310	0.1	(nc)
Computer scientists	190	0.1	(nc)
Computer software, applications	40	<	26
Computer systems analysts	70	<	20
Network and computer systems administrators	80	<	13
Physical scientists	40	<	(nc)
Chemists	40	<	35
Social scientists	80	<	(nc)
Market research analysts	80	<	30
Engineers	1,390	0.6	(nc)
Civil	440	0.2	18
Industrial	340	0.1	12
Mechanical	170	0.1	15
Sales	230	0.1	19
Other engineers	210	0.1	(nc)
Chemical	40	<	19
Environmental	50	<	17
Metallurgical/metallurgists	50	<	26
Mining and geological	70	<	28
Technicians	1,380	0.6	(nc)
Computer, numerical tool, and process control programmers	60	<	(nc)
Computer programmers	60	<	17
Drafters	350	0.1	(nc)
Architectural and civil drafters	170	0.1	29
Mechanical drafters	180	0.1	19
Engineering technicians	750	0.3	(nc)
Civil engineering technicians	210	0.1	19
Electronical/electronics engineering technicians	120	0.1	26
Electro-mechanical technicians	70	<	49
Industrial engineering technicians	350	0.1	11
Physical and life science technicians	220	0.1	(nc)
Chemical technicians, except health	220	0.1	17
Cut stone and stone products (SIC 3280)			
Scientific and technical personnel	30	0.2	(nc)
Technicians	30	0.2	(nc)
Drafters	30	0.2	(nc)
Architectural and civil drafters	30	0.2	25
Misc. nonmetallic mineral products (SIC 3290)			
Scientific and technical personnel	2,800	3.8	(nc)
Managers of scientific and technical personnel	500	0.7	(nc)
Computer and information systems managers	150	0.2	26
Engineering managers	300	0.4	9
Natural sciences managers	50	0.1	25

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. nonmetallic mineral products (SIC 3290) -- continued:			
Scientists	360	0.5	(nc)
Computer scientists	190	0.3	(nc)
Computer software, applications	30	<	32
Computer systems analysts	50	0.1	12
Network and computer systems administrators	110	0.2	30
Physical scientists	170	0.2	(nc)
Chemists	90	0.1	15
Materials scientists	80	0.1	22
Engineers	1,070	1.4	(nc)
Electrical/electronics	40	0.1	(nc)
Electrical	40	0.1	16
Industrial	260	0.4	10
Mechanical	220	0.3	11
Sales	200	0.3	25
Other engineers	350	0.5	(nc)
Chemical	140	0.2	20
Environmental	40	0.1	17
Metallurgical/metallurgists	170	0.2	14
Technicians	870	1.2	(nc)
Computer, numerical tool, and process control programmers	110	0.2	(nc)
Computer programmers	110	0.2	28
Drafters	180	0.2	(nc)
Electrical and electronics drafters	110	0.2	37
Mechanical drafters	70	0.1	14
Engineering technicians	280	0.4	(nc)
Electronical/electronics engineering technicians	50	0.1	21
Industrial engineering technicians	190	0.3	17
Mechanical engineering technicians	40	0.1	36
Physical and life science technicians	300	0.4	(nc)
Chemical technicians, except health	300	0.4	13

[1]SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2]Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY: nc = Not computed
< = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Blast furnace and basic steel products (SIC 3310)			
Scientific and technical personnel	9,290	4.2	(nc)
Managers of scientific and technical personnel	970	0.4	(nc)
Computer and information systems managers	450	0.2	13
Engineering managers	480	0.2	8
Natural sciences managers	40	<	19
Scientists	1,600	0.7	(nc)
Computer scientists	1,100	0.5	(nc)
Computer software, applications	240	0.1	21
Computer software, systems	160	0.1	29
Computer systems analysts	420	0.2	33
Network and computer systems administrators	210	0.1	23
Network systems/data communications analysts	70	<	27
Mathematical scientists	220	0.1	(nc)
Operations and systems researchers and analysts	220	0.1	16
Physical scientists	240	0.1	(nc)
Chemists	210	0.1	21
Materials scientists	30	<	22
Social scientists	40	<	(nc)
Market research analysts	40	<	46
Engineers	3,860	1.7	(nc)
Civil	30	<	39
Electrical/electronics	310	0.1	(nc)
Electrical	270	0.1	11
Electronics	40	<	17
Industrial	1,110	0.5	10
Mechanical	610	0.3	10
Sales	70	<	21
Other engineers	1,730	0.8	(nc)
Environmental	160	0.1	8
Metallurgical/metallurgists	1,350	0.6	19
Safety	220	0.1	16
Technicians	2,860	1.3	(nc)
Computer, numerical tool, and process control programmers	580	0.3	(nc)
Computer programmers	360	0.2	10
Numerical tool and process control programmers	220	0.1	45
Drafters	450	0.2	(nc)
Electrical and electronics drafters	140	0.1	46
Mechanical drafters	310	0.1	21
Engineering technicians	1,120	0.5	(nc)
Electronical/electronics engineering technicians	310	0.1	8
Electro-mechanical technicians	140	0.1	10
Environmental engineering technicians	50	<	24
Industrial engineering technicians	160	0.1	23
Mechanical engineering technicians	460	0.2	24

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Blast furnace and basic steel products (SIC 3310) -- continued:			
Physical and life science technicians	710	0.3	(nc)
Chemical technicians, except health	680	0.3	15
Environmental science and protection technicians, including health	30	<	18
Iron and steel foundries (SIC 3320)			
Scientific and technical personnel	4,350	3.5	(nc)
Managers of scientific and technical personnel	630	0.5	(nc)
Computer and information systems managers	210	0.2	14
Engineering managers	420	0.3	13
Scientists	380	0.3	(nc)
Computer scientists	310	0.3	(nc)
Computer software, applications	120	0.1	41
Computer systems analysts	100	0.1	28
Network and computer systems administrators	90	0.1	28
Physical scientists	70	0.1	(nc)
Chemists	30	<	20
Materials scientists	40	<	18
Engineers	2,510	2.1	(nc)
Electrical/electronics	80	0.1	(nc)
Electrical	80	0.1	12
Industrial	1,030	0.8	17
Mechanical	450	0.4	15
Sales	200	0.2	16
Other engineers	750	0.6	(nc)
Environmental	100	0.1	9
Metallurgical/metallurgists	490	0.4	15
Safety	160	0.1	8
Technicians	830	0.7	(nc)
Computer, numerical tool, and process control programmers	130	0.1	(nc)
Computer programmers	90	0.1	14
Numerical tool and process control programmers	40	<	26
Drafters	190	0.2	(nc)
Architectural and civil drafters	50	<	20
Mechanical drafters	140	0.1	14
Engineering technicians	370	0.3	(nc)
Electronical/electronics engineering technicians	90	0.1	19
Industrial engineering technicians	200	0.2	15
Mechanical engineering technicians	80	0.1	34
Physical and life science technicians	140	0.1	(nc)
Chemical technicians, except health	140	0.1	25

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Primary nonferrous metals (SIC 3330)			
Scientific and technical personnel	2,860	9.0	(nc)
Managers of scientific and technical personnel	160	0.5	(nc)
Computer and information systems managers	30	0.1	23
Engineering managers	130	0.4	15
Scientists	550	1.7	(nc)
Computer scientists	130	0.4	(nc)
Computer systems analysts	80	0.3	21
Network and computer systems administrators	50	0.2	17
Physical scientists	420	1.3	(nc)
Chemists	420	1.3	18
Engineers	880	2.8	(nc)
Electrical/electronics	90	0.3	(nc)
Electrical	90	0.3	23
Industrial	110	0.4	22
Mechanical	160	0.5	17
Sales	60	0.2	23
Other engineers	460	1.5	(nc)
Chemical	180	0.6	23
Environmental	70	0.2	19
Metallurgical/metallurgists	160	0.5	15
Safety	50	0.2	20
Technicians	1,270	4.0	(nc)
Computer, numerical tool, and process control programmers	60	0.2	(nc)
Computer programmers	60	0.2	11
Drafters	110	0.4	(nc)
Mechanical drafters	110	0.4	25
Engineering technicians	700	2.2	(nc)
Electronical/electronics engineering technicians	90	0.3	27
Environmental engineering technicians	30	0.1	32
Industrial engineering technicians	100	0.3	18
Mechanical engineering technicians	480	1.5	36
Physical and life science technicians	400	1.3	(nc)
Chemical technicians, except health	280	0.9	16
Environmental science and protection technicians, including health	120	0.4	11
Secondary nonferrous metals (SIC 3340)			
Scientific and technical personnel	420	2.8	(nc)
Scientists	120	0.8	(nc)
Physical scientists	120	0.8	(nc)
Chemists	120	0.8	16

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Secondary nonferrous metals (SIC 3340) -- continued:			
Engineers	120	0.8	(nc)
Industrial	60	0.4	14
Other engineers	60	0.4	(nc)
Metallurgical/metallurgists	60	0.4	8
Technicians	180	1.2	(nc)
Physical and life science technicians	180	1.2	(nc)
Chemical technicians, except health	120	0.8	8
Environmental science and protection technicians, including health	60	0.4	29
Nonferrous rolling and drawing (SIC 3350)			
Scientific and technical personnel	10,690	5.9	(nc)
Managers of scientific and technical personnel	1,400	0.8	(nc)
Computer and information systems managers	470	0.3	6
Engineering managers	840	0.5	4
Natural sciences managers	90	0.1	28
Scientists	1,490	0.8	(nc)
Computer scientists	1,060	0.6	(nc)
Computer software, applications	170	0.1	15
Computer systems analysts	530	0.3	10
Network and computer systems administrators	290	0.2	10
Network systems/data communications analysts	70	<	17
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	28
Physical scientists	390	0.2	(nc)
Chemists	200	0.1	20
Materials scientists	190	0.1	25
Engineers	4,340	2.4	(nc)
Civil	40	<	24
Electrical/electronics	740	0.4	(nc)
Electrical	530	0.3	10
Electronics	210	0.1	24
Industrial	1,400	0.8	6
Mechanical	1,040	0.6	9
Sales	240	0.1	18
Other engineers	880	0.5	(nc)
Chemical	50	<	27
Environmental	130	0.1	10
Metallurgical/metallurgists	550	0.3	16
Safety	150	0.1	13

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Nonferrous rolling and drawing (SIC 3350) -- continued:			
Technicians	3,460	1.9	(nc)
Computer, numerical tool, and process control programmers	460	0.3	(nc)
Computer programmers	320	0.2	16
Numerical tool and process control programmers	140	0.1	29
Drafters	500	0.3	(nc)
Architectural and civil drafters	30	<	29
Mechanical drafters	470	0.3	15
Engineering technicians	1,700	0.9	(nc)
Electronical/electronics engineering technicians	620	0.3	12
Electro-mechanical technicians	170	0.1	30
Environmental engineering technicians	50	<	16
Industrial engineering technicians	490	0.3	23
Mechanical engineering technicians	370	0.2	17
Physical and life science technicians	800	0.4	(nc)
Chemical technicians, except health	720	0.4	28
Environmental science and protection technicians, including health	80	<	25
Nonferrous foundries (castings0) (SIC 3360)			
Scientific and technical personnel	2,650	2.8	(nc)
Managers of scientific and technical personnel	420	0.5	(nc)
Computer and information systems managers	90	0.1	10
Engineering managers	330	0.4	8
Scientists	120	0.1	(nc)
Computer scientists	120	0.1	(nc)
Computer systems analysts	50	0.1	14
Network and computer systems administrators	70	0.1	20
Engineers	1,470	1.6	(nc)
Electrical/electronics	30	<	(nc)
Electrical	30	<	18
Industrial	520	0.6	10
Mechanical	590	0.6	9
Sales	90	0.1	18
Other engineers	240	0.3	(nc)
Metallurgical/metallurgists	180	0.2	16
Safety	60	0.1	17
Technicians	640	0.7	(nc)
Computer, numerical tool, and process control programmers	260	0.3	(nc)
Computer programmers	80	0.1	20
Numerical tool and process control programmers	180	0.2	27
Drafters	140	0.2	(nc)
Mechanical drafters	140	0.2	12
Engineering technicians	190	0.2	(nc)
Industrial engineering technicians	120	0.1	15
Mechanical engineering technicians	70	0.1	23
Physical and life science technicians	50	0.1	(nc)
Chemical technicians, except health	50	0.1	24

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous primary metal products (SIC 3390)			
Scientific and technical personnel	890	3.3	(nc)
Managers of scientific and technical personnel	160	0.6	(nc)
Computer and information systems managers	40	0.2	16
Engineering managers	120	0.5	21
Scientists	40	0.2	(nc)
Physical scientists	40	0.2	(nc)
Chemists	40	0.2	32
Engineers	480	1.8	(nc)
Industrial	140	0.5	13
Mechanical	90	0.3	17
Sales	40	0.2	12
Other engineers	210	0.8	(nc)
Metallurgical/metallurgists	180	0.7	11
Safety	30	0.1	18
Technicians	210	0.8	(nc)
Drafters	30	0.1	(nc)
Mechanical drafters	30	0.1	24
Engineering technicians	90	0.3	(nc)
Electro-mechanical technicians	30	0.1	43
Industrial engineering technicians	60	0.2	32
Physical and life science technicians	90	0.3	(nc)
Chemical technicians, except health	90	0.3	15
Metal cans and shipping containers (SIC 3410)			
Scientific and technical personnel	1,280	3.7	(nc)
Managers of scientific and technical personnel	280	0.8	(nc)
Engineering managers	280	0.8	33
Scientists	140	0.4	(nc)
Physical scientists	140	0.4	(nc)
Chemists	80	0.2	20
Materials scientists	60	0.2	41
Engineers	640	1.9	(nc)
Electrical/electronics	50	0.1	(nc)
Electrical	50	0.1	34
Industrial	130	0.4	26
Mechanical	320	0.9	42
Other engineers	140	0.4	(nc)
Environmental	60	0.2	32
Metallurgical/metallurgists	50	0.1	46
Safety	30	0.1	30

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metal cans and shipping containers (SIC 3410) -- continued:			
Technicians	220	0.6	(nc)
Computer, numerical tool, and process control programmers	30	0.1	(nc)
Computer programmers	30	0.1	4
Drafters	30	0.1	(nc)
Mechanical drafters	30	0.1	23
Engineering technicians	160	0.5	(nc)
Electronical/electronics engineering technicians	100	0.3	18
Industrial engineering technicians	60	0.2	17
Cutlery, hand tools, and hardware (SIC 3420)			
Scientific and technical personnel	4,640	3.9	(nc)
Managers of scientific and technical personnel	780	0.7	(nc)
Computer and information systems managers	250	0.2	12
Engineering managers	530	0.5	9
Scientists	350	0.3	(nc)
Computer scientists	350	0.3	(nc)
Computer software, applications	70	0.1	32
Computer systems analysts	110	0.1	9
Network and computer systems administrators	130	0.1	10
Network systems/data communications analysts	40	<	18
Engineers	2,140	1.8	(nc)
Electrical/electronics	40	<	(nc)
Electrical	40	<	22
Industrial	880	0.8	15
Mechanical	890	0.8	9
Sales	80	0.1	35
Other engineers	250	0.2	(nc)
Environmental	30	<	14
Metallurgical/metallurgists	160	0.1	23
Safety	60	0.1	13
Technicians	1,370	1.2	(nc)
Computer, numerical tool, and process control programmers	450	0.4	(nc)
Computer programmers	240	0.2	19
Numerical tool and process control programmers	210	0.2	10
Drafters	440	0.4	(nc)
Mechanical drafters	440	0.4	9
Engineering technicians	480	0.4	(nc)
Environmental engineering technicians	40	<	17
Industrial engineering technicians	170	0.1	29
Mechanical engineering technicians	270	0.2	15

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Plumbing and heating, except electric (SIC 3430)			
Scientific and technical personnel	1,930	3.3	(nc)
Managers of scientific and technical personnel	290	0.5	(nc)
Computer and information systems managers	80	0.1	10
Engineering managers	210	0.4	7
Scientists	40	0.1	(nc)
Computer scientists	40	0.1	(nc)
Network and computer systems administrators	40	0.1	12
Engineers	860	1.5	(nc)
Electrical/electronics	50	0.1	(nc)
Electrical	50	0.1	13
Industrial	380	0.6	16
Mechanical	330	0.6	6
Sales	30	0.1	17
Other engineers	70	0.1	(nc)
Metallurgical/metallurgists	40	0.1	13
Safety	30	0.1	15
Technicians	740	1.3	(nc)
Computer, numerical tool, and process control programmers	140	0.2	(nc)
Computer programmers	70	0.1	9
Numerical tool and process control programmers	70	0.1	16
Drafters	230	0.4	(nc)
Mechanical drafters	230	0.4	8
Engineering technicians	370	0.6	(nc)
Electronical/electronics engineering technicians	40	0.1	22
Electro-mechanical technicians	90	0.2	46
Environmental engineering technicians	50	0.1	23
Industrial engineering technicians	80	0.1	9
Mechanical engineering technicians	110	0.2	29
Fabricated structural metal products (SIC 3440)			
Scientific and technical personnel	24,330	4.8	(nc)
Managers of scientific and technical personnel	3,210	0.6	(nc)
Computer and information systems managers	740	0.2	6
Engineering managers	2,470	0.5	11
Scientists	1,340	0.3	(nc)
Computer scientists	1,170	0.2	(nc)
Computer software, applications	350	0.1	16
Computer software, systems	40	<	47
Computer systems analysts	260	0.1	13
Network and computer systems administrators	380	0.1	6
Network systems/data communications analysts	140	<	22
Social scientists	170	<	(nc)
Market research analysts	170	<	18

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Fabricated structural metal products (SIC 3440) -- continued:			
Engineers	8,130	1.6	(nc)
Civil	750	0.2	9
Computer	50	<	50
Electrical/electronics	390	0.1	(nc)
Electrical	390	0.1	21
Industrial	2,360	0.5	8
Mechanical	2,990	0.6	6
Sales	770	0.2	10
Other engineers	820	0.2	(nc)
Chemical	70	<	26
Environmental	40	<	11
Metallurgical/metallurgists	470	0.1	13
Safety	240	0.1	8
Technicians	11,650	2.3	(nc)
Computer, numerical tool, and process control programmers	1,550	0.3	(nc)
Computer programmers	620	0.1	11
Numerical tool and process control programmers	930	0.2	17
Drafters	7,810	1.6	(nc)
Architectural and civil drafters	3,090	0.6	10
Electrical and electronics drafters	330	0.1	42
Mechanical drafters	4,390	0.9	8
Engineering technicians	2,180	0.4	(nc)
Civil engineering technicians	70	<	47
Electronical/electronics engineering technicians	190	<	14
Electro-mechanical technicians	430	0.1	28
Environmental engineering technicians	50	<	26
Industrial engineering technicians	1,000	0.2	13
Mechanical engineering technicians	440	0.1	14
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	17
Surveying, cartographic, photogrammetric, and mapping technicians	80	<	(nc)
Surveying and mapping technicians	80	<	38
Screw machine products, bolts, etc. (SIC 3450)			
Scientific and technical personnel	3,180	3.0	(nc)
Managers of scientific and technical personnel	500	0.5	(nc)
Computer and information systems managers	130	0.1	9
Engineering managers	370	0.4	8
Scientists	190	0.2	(nc)
Computer scientists	190	0.2	(nc)
Computer systems analysts	90	0.1	17
Network and computer systems administrators	100	0.1	14

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Screw machine products, bolts, etc. (SIC 3450) -- continued:			
Engineers	1,400	1.3	(nc)
Industrial	600	0.6	10
Mechanical	570	0.5	8
Sales	110	0.1	14
Other engineers	120	0.1	(nc)
Metallurgical/metallurgists	90	0.1	18
Safety	30	<	19
Technicians	1,090	1.0	(nc)
Computer, numerical tool, and process control programmers	500	0.5	(nc)
Computer programmers	80	0.1	25
Numerical tool and process control programmers	420	0.4	22
Drafters	160	0.2	(nc)
Mechanical drafters	160	0.2	17
Engineering technicians	400	0.4	(nc)
Electronical/electronics engineering technicians	70	0.1	40
Industrial engineering technicians	150	0.1	22
Mechanical engineering technicians	180	0.2	20
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	26
Metal forgings and stampings (SIC 3460)			
Scientific and technical personnel	9,990	3.9	(nc)
Managers of scientific and technical personnel	1,450	0.6	(nc)
Computer and information systems managers	400	0.2	9
Engineering managers	1,050	0.4	9
Scientists	610	0.2	(nc)
Computer scientists	580	0.2	(nc)
Computer software, applications	110	<	13
Computer systems analysts	190	0.1	10
Network and computer systems administrators	240	0.1	8
Network systems/data communications analysts	40	<	18
Physical scientists	30	<	(nc)
Materials scientists	30	<	21
Engineers	5,000	2.0	(nc)
Computer	140	0.1	46
Electrical/electronics	270	0.1	(nc)
Electrical	220	0.1	33
Electronics	50	<	25
Industrial	2,010	0.8	10
Mechanical	1,820	0.7	7
Sales	320	0.1	15
Other engineers	440	0.2	(nc)
Environmental	40	<	24
Metallurgical/metallurgists	250	0.1	12
Safety	150	0.1	13

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metal forgings and stampings (SIC 3460) -- continued:			
Technicians	2,930	1.2	(nc)
Computer, numerical tool, and process control programmers	790	0.3	(nc)
Computer programmers	330	0.1	12
Numerical tool and process control programmers	460	0.2	9
Drafters	1,010	0.4	(nc)
Architectural and civil drafters	30	<	32
Electrical and electronics drafters	50	<	16
Mechanical drafters	930	0.4	12
Engineering technicians	1,100	0.4	(nc)
Electronical/electronics engineering technicians	130	0.1	13
Electro-mechanical technicians	30	<	27
Industrial engineering technicians	500	0.2	14
Mechanical engineering technicians	440	0.2	30
Physical and life science technicians	30	<	(nc)
Chemical technicians, except health	30	<	12
Metal services, n.e.c. (SIC 3470)			
Scientific and technical personnel	2,970	2.0	(nc)
Managers of scientific and technical personnel	390	0.3	(nc)
Computer and information systems managers	130	0.1	10
Engineering managers	260	0.2	9
Scientists	360	0.2	(nc)
Computer scientists	70	0.1	(nc)
Computer systems analysts	30	<	25
Network and computer systems administrators	40	<	13
Physical scientists	290	0.2	(nc)
Chemists	260	0.2	10
Materials scientists	30	<	20
Engineers	1,370	0.9	(nc)
Electrical/electronics	60	<	(nc)
Electrical	60	<	18
Industrial	310	0.2	11
Mechanical	440	0.3	20
Sales	90	0.1	11
Other engineers	470	0.3	(nc)
Chemical	150	0.1	46
Environmental	90	0.1	18
Metallurgical/metallurgists	150	0.1	13
Safety	80	0.1	13

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metal services, n.e.c. (SIC 3470) -- continued:			
Technicians	850	0.6	(nc)
Computer, numerical tool, and process control programmers	60	<	(nc)
Computer programmers	60	<	15
Drafters	80	0.1	(nc)
Mechanical drafters	80	0.1	19
Engineering technicians	390	0.3	(nc)
Electro-mechanical technicians	40	<	40
Environmental engineering technicians	130	0.1	19
Industrial engineering technicians	140	0.1	35
Mechanical engineering technicians	80	0.1	16
Physical and life science technicians	320	0.2	(nc)
Chemical technicians, except health	250	0.2	12
Environmental science and protection technicians, including health	70	0.1	13
Ordnance and accessories, n.e.c. (SIC 3480)			
Scientific and technical personnel	2,530	7.3	(nc)
Managers of scientific and technical personnel	430	1.3	(nc)
Computer and information systems managers	100	0.3	11
Engineering managers	330	1.0	14
Scientists	270	0.8	(nc)
Computer scientists	270	0.8	(nc)
Computer software, applications	50	0.1	<
Computer systems analysts	120	0.4	13
Network and computer systems administrators	70	0.2	13
Network systems/data communications analysts	30	0.1	12
Engineers	1,010	2.9	(nc)
Industrial	350	1.0	10
Mechanical	520	1.5	15
Other engineers	140	0.4	(nc)
Environmental	140	0.4	9
Technicians	820	2.4	(nc)
Drafters	110	0.3	(nc)
Mechanical drafters	110	0.3	10
Engineering technicians	710	2.1	(nc)
Electronical/electronics engineering technicians	250	0.7	31
Electro-mechanical technicians	40	0.1	22
Industrial engineering technicians	200	0.6	9
Mechanical engineering technicians	220	0.6	7
Misc. fabricated metal products (SIC 3490)			
Scientific and technical personnel	12,790	4.6	(nc)
Managers of scientific and technical personnel	1,940	0.7	(nc)
Computer and information systems managers	460	0.2	6
Engineering managers	1,480	0.5	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. fabricated metal products (SIC 3490) -- continued:			
Scientists	920	0.3	(nc)
Computer scientists	780	0.3	(nc)
Computer software, applications	130	0.1	20
Computer systems analysts	200	0.1	11
Network and computer systems administrators	350	0.1	7
Network systems/data communications analysts	100	<	15
Physical scientists	90	<	(nc)
Chemists	90	<	24
Social scientists	50	<	(nc)
Market research analysts	50	<	20
Engineers	5,730	2.1	(nc)
Computer	30	<	22
Electrical/electronics	280	0.1	(nc)
Electrical	170	0.1	13
Electronics	110	<	23
Industrial	1,750	0.6	6
Mechanical	2,440	0.9	6
Sales	620	0.2	20
Other engineers	610	0.2	(nc)
Chemical	40	<	20
Environmental	80	<	17
Metallurgical/metallurgists	340	0.1	12
Safety	150	0.1	8
Technicians	4,200	1.5	(nc)
Computer, numerical tool, and process control programmers	1,180	0.4	(nc)
Computer programmers	480	0.2	12
Numerical tool and process control programmers	700	0.3	13
Drafters	1,320	0.5	(nc)
Architectural and civil drafters	40	<	28
Electrical and electronics drafters	60	<	17
Mechanical drafters	1,220	0.4	6
Engineering technicians	1,550	0.6	(nc)
Electronical/electronics engineering technicians	200	0.1	17
Electro-mechanical technicians	160	0.1	16
Industrial engineering technicians	590	0.2	11
Mechanical engineering technicians	600	0.2	9
Physical and life science technicians	150	0.1	(nc)
Chemical technicians, except health	110	<	14
Environmental science and protection technicians, including health	40	<	21
Engines and turbines (SIC 3510)			
Scientific and technical personnel	10,610	13.8	(nc)
Managers of scientific and technical personnel	1,110	1.4	(nc)
Computer and information systems managers	130	0.2	15
Engineering managers	980	1.3	19

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Engines and turbines (SIC 3510) -- continued:			
Scientists	710	0.9	(nc)
Computer scientists	710	0.9	(nc)
Computer software, systems	230	0.3	42
Computer systems analysts	390	0.5	22
Network and computer systems administrators	90	0.1	49
Engineers	6,760	8.8	(nc)
Computer	30	<	18
Electrical/electronics	350	0.5	(nc)
Electrical	290	0.4	44
Electronics	60	0.1	25
Industrial	1,590	2.1	28
Mechanical	4,150	5.4	30
Sales	170	0.2	16
Other engineers	470	0.6	(nc)
Metallurgical/metallurgists	350	0.5	36
Safety	120	0.2	32
Technicians	2,030	2.6	(nc)
Computer, numerical tool, and process control programmers	260	0.3	(nc)
Computer programmers	50	0.1	33
Numerical tool and process control programmers	210	0.3	13
Drafters	490	0.6	(nc)
Mechanical drafters	490	0.6	20
Engineering technicians	1,280	1.7	(nc)
Electronical/electronics engineering technicians	300	0.4	46
Electro-mechanical technicians	110	0.1	18
Industrial engineering technicians	530	0.7	29
Mechanical engineering technicians	340	0.4	42
Farm and garden machinery (SIC 3520)			
Scientific and technical personnel	6,320	6.5	(nc)
Managers of scientific and technical personnel	890	0.9	(nc)
Computer and information systems managers	210	0.2	12
Engineering managers	680	0.7	8
Scientists	590	0.6	(nc)
Computer scientists	530	0.5	(nc)
Computer software, applications	80	0.1	15
Computer systems analysts	410	0.4	9
Network systems/data communications analysts	40	<	23
Social scientists	60	0.1	(nc)
Market research analysts	60	0.1	22

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Farm and garden machinery (SIC 3520) -- continued:			
Engineers	2,940	3.0	(nc)
Electrical/electronics	170	0.2	(nc)
Electrical	110	0.1	13
Electronics	60	0.1	30
Industrial	750	0.8	16
Mechanical	1,570	1.6	14
Sales	80	0.1	19
Other engineers	370	0.4	(nc)
Agricultural	40	<	39
Chemical	190	0.2	38
Metallurgical/metallurgists	110	0.1	27
Safety	30	<	18
Technicians	1,900	1.9	(nc)
Computer, numerical tool, and process control programmers	140	0.1	(nc)
Computer programmers	100	0.1	13
Numerical tool and process control programmers	40	<	29
Drafters	770	0.8	(nc)
Electrical and electronics drafters	50	0.1	33
Mechanical drafters	720	0.7	19
Engineering technicians	990	1.0	(nc)
Electronical/electronics engineering technicians	100	0.1	18
Electro-mechanical technicians	120	0.1	25
Industrial engineering technicians	270	0.3	10
Mechanical engineering technicians	500	0.5	13
Construction and related machinery (SIC 3530)			
Scientific and technical personnel	28,130	11.8	(nc)
Managers of scientific and technical personnel	3,200	1.3	(nc)
Computer and information systems managers	840	0.4	13
Engineering managers	2,360	1.0	5
Scientists	1,540	0.7	(nc)
Computer scientists	1,420	0.6	(nc)
Computer and information scientists, research	70	<	31
Computer software, applications	250	0.1	12
Computer software, systems	280	0.1	17
Computer systems analysts	740	0.3	12
Network and computer systems administrators	80	<	15
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	21
Social scientists	80	<	(nc)
Market research analysts	80	<	14

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Construction and related machinery (SIC 3530) -- continued:			
Engineers	15,300	6.5	(nc)
Computer	140	0.1	23
Electrical/electronics	1,290	0.6	(nc)
Electrical	1,060	0.5	9
Electronics	230	0.1	21
Industrial	3,000	1.3	10
Mechanical	8,770	3.7	6
Sales	1,440	0.6	11
Other engineers	660	0.3	(nc)
Chemical	90	<	43
Metallurgical/metallurgists	420	0.2	11
Safety	150	0.1	8
Technicians	8,090	3.4	(nc)
Computer, numerical tool, and process control programmers	1,270	0.5	(nc)
Computer programmers	620	0.3	10
Numerical tool and process control programmers	650	0.3	13
Drafters	3,600	1.5	(nc)
Electrical and electronics drafters	240	0.1	14
Mechanical drafters	3,360	1.4	9
Engineering technicians	3,050	1.3	(nc)
Aerospace engineering and operations technicians	30	<	35
Electronical/electronics engineering technicians	670	0.3	12
Electro-mechanical technicians	250	0.1	19
Industrial engineering technicians	1,040	0.4	14
Mechanical engineering technicians	1,060	0.5	11
Physical and life science technicians	170	0.1	(nc)
Chemical technicians, except health	100	<	10
Geological and petroleum technicians	70	<	37
Metalworking machinery (SIC 3540)			
Scientific and technical personnel	29,040	8.8	(nc)
Managers of scientific and technical personnel	2,890	0.9	(nc)
Computer and information systems managers	810	0.2	8
Engineering managers	2,080	0.6	5
Scientists	1,530	0.5	(nc)
Computer scientists	1,370	0.4	(nc)
Computer and information scientists, research	30	<	42
Computer software, applications	600	0.2	18
Computer software, systems	330	0.1	14
Computer systems analysts	300	0.1	9
Network and computer systems administrators	80	<	16
Network systems/data communications analysts	30	<	28

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metalworking machinery (SIC 3540) -- continued:			
Physical scientists	90	<	(nc)
Chemists	40	<	27
Materials scientists	50	<	32
Social scientists	70	<	(nc)
Market research analysts	70	<	20
Engineers	12,660	3.8	(nc)
Electrical/electronics	1,550	0.5	(nc)
Electrical	1,010	0.3	10
Electronics	540	0.2	20
Industrial	2,020	0.6	9
Mechanical	6,870	2.1	5
Sales	1,830	0.6	11
Other engineers	390	0.1	(nc)
Metallurgical/metallurgists	310	0.1	13
Safety	80	<	8
Technicians	11,960	3.6	(nc)
Computer, numerical tool, and process control programmers	4,810	1.5	(nc)
Computer programmers	1,080	0.3	10
Numerical tool and process control programmers	3,730	1.1	6
Drafters	4,890	1.5	(nc)
Electrical and electronics drafters	300	0.1	19
Mechanical drafters	4,590	1.4	7
Engineering technicians	2,170	0.7	(nc)
Electronical/electronics engineering technicians	610	0.2	13
Electro-mechanical technicians	260	0.1	46
Industrial engineering technicians	570	0.2	12
Mechanical engineering technicians	730	0.2	14
Physical and life science technicians	90	<	(nc)
Chemical technicians, except health	60	<	31
Environmental science and protection technicians, including health	30	<	44
Special industry machinery (SIC 3550)			
Scientific and technical personnel	29,870	17.5	(nc)
Managers of scientific and technical personnel	2,900	1.7	(nc)
Computer and information systems managers	580	0.3	8
Engineering managers	2,320	1.4	6
Scientists	2,650	1.5	(nc)
Computer scientists	2,280	1.3	(nc)
Computer and information scientists, research	40	<	21
Computer software, applications	1,100	0.6	12
Computer software, systems	650	0.4	16
Computer systems analysts	380	0.2	17
Network and computer systems administrators	70	<	16
Network systems/data communications analysts	40	<	21

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Special industry machinery (SIC 3550) -- continued:			
Mathematical scientists	90	0.1	(nc)
Operations and systems researchers and analysts	90	0.1	34
Physical scientists	190	0.1	(nc)
Materials scientists	190	0.1	44
Social scientists	90	0.1	(nc)
Market research analysts	90	0.1	19
Engineers	14,710	8.6	(nc)
Computer	360	0.2	19
Electrical/electronics	4,020	2.4	(nc)
Electrical	2,660	1.6	16
Electronics	1,360	0.8	35
Industrial	1,830	1.1	8
Mechanical	6,440	3.8	6
Sales	1,570	0.9	8
Other engineers	490	0.3	(nc)
Chemical	130	0.1	48
Metallurgical/metallurgists	270	0.2	22
Safety	90	0.1	16
Technicians	9,610	5.6	(nc)
Computer, numerical tool, and process control programmers	1,170	0.7	(nc)
Computer programmers	630	0.4	15
Numerical tool and process control programmers	540	0.3	19
Drafters	3,320	1.9	(nc)
Electrical and electronics drafters	520	0.3	15
Mechanical drafters	2,800	1.6	9
Engineering technicians	5,030	3.0	(nc)
Aerospace engineering and operations technicians	60	<	31
Electronical/electronics engineering technicians	1,770	1.0	17
Electro-mechanical technicians	540	0.3	22
Industrial engineering technicians	1,370	0.8	24
Mechanical engineering technicians	1,290	0.8	13
Physical and life science technicians	90	0.1	(nc)
Chemical technicians, except health	50	<	20
Environmental science and protection technicians, including health	40	<	42
General industrial machinery (SIC 3560)			
Scientific and technical personnel	28,240	11.3	(nc)
Managers of scientific and technical personnel	3,420	1.4	(nc)
Computer and information systems managers	770	0.3	6
Engineering managers	2,650	1.1	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
General industrial machinery (SIC 3560) -- continued:			
Scientists	1,690	0.7	(nc)
Computer scientists	1,460	0.6	(nc)
Computer and information scientists, research	50	<	25
Computer software, applications	600	0.2	15
Computer software, systems	230	0.1	13
Computer systems analysts	480	0.2	11
Network and computer systems administrators	70	<	10
Network systems/data communications analysts	30	<	14
Physical scientists	100	<	(nc)
Materials scientists	100	<	33
Social scientists	130	0.1	(nc)
Market research analysts	130	0.1	23
Engineers	15,460	6.2	(nc)
Computer	50	<	24
Electrical/electronics	2,430	1.0	(nc)
Electrical	1,780	0.7	13
Electronics	650	0.3	12
Industrial	3,730	1.5	17
Mechanical	6,040	2.4	5
Sales	2,600	1.0	9
Other engineers	610	0.3	(nc)
Chemical	150	0.1	20
Metallurgical/metallurgists	320	0.1	11
Safety	140	0.1	9
Technicians	7,670	3.1	(nc)
Computer, numerical tool, and process control programmers	1,400	0.6	(nc)
Computer programmers	570	0.2	14
Numerical tool and process control programmers	830	0.3	10
Drafters	2,930	1.2	(nc)
Architectural and civil drafters	70	<	29
Electrical and electronics drafters	330	0.1	12
Mechanical drafters	2,530	1.0	5
Engineering technicians	3,170	1.3	(nc)
Electronical/electronics engineering technicians	1,040	0.4	10
Electro-mechanical technicians	200	0.1	16
Industrial engineering technicians	690	0.3	10
Mechanical engineering technicians	1,240	0.5	8
Physical and life science technicians	170	0.1	(nc)
Chemical technicians, except health	120	0.1	27
Environmental science and protection technicians, including health	50	<	28

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Computer and office equipment (SIC 3570)			
Scientific and technical personnel	123,500	34.7	(nc)
Managers of scientific and technical personnel	9,440	2.7	(nc)
Computer and information systems managers	3,580	1.0	14
Engineering managers	5,860	1.7	7
Scientists	55,230	15.5	(nc)
Computer scientists	51,440	14.5	(nc)
Computer and information scientists, research	430	0.1	31
Computer software, applications	14,110	4.0	14
Computer software, systems	26,800	7.5	14
Computer systems analysts	7,200	2.0	10
Network and computer systems administrators	1,180	0.3	9
Network systems/data communications analysts	1,720	0.5	27
Mathematical scientists	790	0.2	(nc)
Operations and systems researchers and analysts	790	0.2	14
Social scientists	3,000	0.8	(nc)
Market research analysts	3,000	0.8	13
Engineers	34,570	9.7	(nc)
Civil	300	0.1	41
Computer	10,240	2.9	9
Electrical/electronics	12,920	3.6	(nc)
Electrical	7,640	2.2	13
Electronics	5,280	1.5	20
Industrial	5,610	1.6	8
Mechanical	2,530	0.7	30
Sales	1,260	0.4	15
Other engineers	1,710	0.5	(nc)
Chemical	300	0.1	46
Environmental	290	0.1	38
Metallurgical/metallurgists	790	0.2	35
Safety	330	0.1	11
Technicians	24,260	6.8	(nc)
Computer, numerical tool, and process control programmers	13,010	3.7	(nc)
Computer programmers	12,930	3.6	12
Numerical tool and process control programmers	80	<	39
Drafters	1,540	0.4	(nc)
Architectural and civil drafters	30	<	21
Electrical and electronics drafters	1,110	0.3	31
Mechanical drafters	400	0.1	16
Engineering technicians	9,470	2.7	(nc)
Electronical/electronics engineering technicians	6,340	1.8	12
Electro-mechanical technicians	1,220	0.3	25
Environmental engineering technicians	30	<	30
Industrial engineering technicians	1,880	0.5	16
Physical and life science technicians	240	0.1	(nc)
Chemical technicians, except health	240	0.1	41

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Refrigeration and service machinery (SIC 3580)			
Scientific and technical personnel	15,830	7.6	(nc)
Managers of scientific and technical personnel	1,710	0.8	(nc)
Computer and information systems managers	400	0.2	6
Engineering managers	1,310	0.6	9
Scientists	840	0.4	(nc)
Computer scientists	790	0.4	(nc)
Computer and information scientists, research	30	<	18
Computer software, applications	300	0.1	20
Computer systems analysts	420	0.2	14
Network and computer systems administrators	40	<	20
Social scientists	50	<	(nc)
Market research analysts	50	<	19
Engineers	7,740	3.7	(nc)
Electrical/electronics	830	0.4	(nc)
Electrical	480	0.2	13
Electronics	350	0.2	16
Industrial	2,410	1.2	34
Mechanical	3,070	1.5	11
Sales	910	0.4	13
Other engineers	520	0.3	(nc)
Chemical	100	0.1	31
Environmental	30	<	40
Metallurgical/metallurgists	210	0.1	13
Safety	180	0.1	9
Technicians	5,540	2.7	(nc)
Computer, numerical tool, and process control programmers	560	0.3	(nc)
Computer programmers	350	0.2	11
Numerical tool and process control programmers	210	0.1	20
Drafters	2,170	1.0	(nc)
Architectural and civil drafters	70	<	31
Electrical and electronics drafters	220	0.1	13
Mechanical drafters	1,880	0.9	10
Engineering technicians	2,700	1.3	(nc)
Electronical/electronics engineering technicians	390	0.2	10
Electro-mechanical technicians	110	0.1	24
Industrial engineering technicians	630	0.3	18
Mechanical engineering technicians	1,570	0.8	21
Physical and life science technicians	110	0.1	(nc)
Chemical technicians, except health	40	<	20
Environmental science and protection technicians, including health	70	<	4

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Industrial machinery, n.e.c. (SIC 3590)			
Scientific and technical personnel	20,400	5.4	(nc)
Managers of scientific and technical personnel	2,270	0.6	(nc)
Computer and information systems managers	580	0.2	7
Engineering managers	1,690	0.5	6
Scientists	760	0.2	(nc)
Computer scientists	670	0.2	(nc)
Computer and information scientists, research	100	<	32
Computer software, applications	270	0.1	28
Computer software, systems	120	<	15
Computer systems analysts	180	0.1	12
Social scientists	90	<	(nc)
Market research analysts	90	<	19
Engineers	8,190	2.2	(nc)
Aeronautical	80	<	35
Computer	70	<	23
Electrical/electronics	940	0.3	(nc)
Electrical	630	0.2	36
Electronics	310	0.1	21
Industrial	2,050	0.6	10
Mechanical	3,810	1.0	5
Sales	770	0.2	9
Other engineers	470	0.1	(nc)
Chemical	30	<	26
Metallurgical/metallurgists	290	0.1	19
Safety	150	<	23
Technicians	9,180	2.4	(nc)
Computer, numerical tool, and process control programmers	4,690	1.3	(nc)
Computer programmers	860	0.2	11
Numerical tool and process control programmers	3,830	1.0	8
Drafters	1,850	0.5	(nc)
Electrical and electronics drafters	300	0.1	25
Mechanical drafters	1,550	0.4	10
Engineering technicians	2,330	0.6	(nc)
Aerospace engineering and operations technicians	80	<	36
Electronical/electronics engineering technicians	720	0.2	17
Electro-mechanical technicians	170	0.1	13
Industrial engineering technicians	600	0.2	19
Mechanical engineering technicians	760	0.2	15
Physical and life science technicians	310	0.1	(nc)
Chemical technicians, except health	310	0.1	41

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electric distribution equipment (SIC 3610)			
Scientific and technical personnel	9,030	10.5	(nc)
Managers of scientific and technical personnel	1,100	1.3	(nc)
Computer and information systems managers	240	0.3	11
Engineering managers	860	1.0	6
Scientists	470	0.5	(nc)
Computer scientists	290	0.3	(nc)
Computer software, applications	160	0.2	20
Network and computer systems administrators	130	0.2	15
Physical scientists	30	<	(nc)
Chemists	30	<	7
Social scientists	150	0.2	(nc)
Market research analysts	150	0.2	38
Engineers	3,700	4.3	(nc)
Computer	30	<	22
Electrical/electronics	1,930	2.3	(nc)
Electrical	1,930	2.3	8
Industrial	870	1.0	9
Sales	720	0.8	11
Other engineers	150	0.2	(nc)
Metallurgical/metallurgists	70	0.1	13
Safety	80	0.1	17
Technicians	3,760	4.4	(nc)
Computer, numerical tool, and process control programmers	240	0.3	(nc)
Computer programmers	240	0.3	11
Drafters	1,190	1.4	(nc)
Electrical and electronics drafters	680	0.8	8
Mechanical drafters	510	0.6	9
Engineering technicians	2,290	2.7	(nc)
Electronical/electronics engineering technicians	1,540	1.8	9
Electro-mechanical technicians	350	0.4	10
Industrial engineering technicians	210	0.2	12
Mechanical engineering technicians	190	0.2	19
Physical and life science technicians	40	0.1	(nc)
Chemical technicians, except health	40	0.1	20
Electrical industrial apparatus (SIC 3620)			
Scientific and technical personnel	18,800	12.5	(nc)
Managers of scientific and technical personnel	1,660	1.1	(nc)
Computer and information systems managers	340	0.2	8
Engineering managers	1,320	0.9	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electrical industrial apparatus (SIC 3620) -- continued:			
Scientists	1,540	1.0	(nc)
Computer scientists	1,310	0.9	(nc)
Computer software, applications	530	0.4	12
Computer software, systems	310	0.2	23
Computer systems analysts	230	0.2	30
Network and computer systems administrators	170	0.1	8
Network systems/data communications analysts	70	0.1	43
Social scientists	230	0.2	(nc)
Market research analysts	230	0.2	47
Engineers	9,200	6.1	(nc)
Computer	70	0.1	15
Electrical/electronics	4,620	3.1	(nc)
Electrical	3,570	2.4	10
Electronics	1,050	0.7	26
Industrial	1,550	1.0	6
Mechanical	1,510	1.0	7
Sales	1,250	0.8	20
Other engineers	200	0.1	(nc)
Environmental	50	<	18
Metallurgical/metallurgists	90	0.1	13
Safety	60	<	14
Technicians	6,400	4.2	(nc)
Computer, numerical tool, and process control programmers	370	0.3	(nc)
Computer programmers	280	0.2	14
Numerical tool and process control programmers	90	0.1	19
Drafters	1,560	1.0	(nc)
Architectural and civil drafters	30	<	26
Electrical and electronics drafters	1,000	0.7	10
Mechanical drafters	530	0.4	10
Engineering technicians	4,400	2.9	(nc)
Electronical/electronics engineering technicians	2,960	2.0	15
Electro-mechanical technicians	300	0.2	16
Industrial engineering technicians	550	0.4	13
Mechanical engineering technicians	590	0.4	12
Physical and life science technicians	70	0.1	(nc)
Chemical technicians, except health	70	0.1	24
Household appliances (SIC 3630)			
Scientific and technical personnel	3,900	3.7	(nc)
Managers of scientific and technical personnel	690	0.7	(nc)
Computer and information systems managers	290	0.3	14
Engineering managers	400	0.4	12

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Household appliances (SIC 3630) -- continued:			
Scientists	600	0.6	(nc)
Computer scientists	490	0.5	(nc)
Computer software, applications	30	<	13
Computer systems analysts	350	0.3	31
Network and computer systems administrators	60	0.1	25
Network systems/data communications analysts	50	0.1	22
Social scientists	110	0.1	(nc)
Market research analysts	110	0.1	25
Engineers	1,900	1.8	(nc)
Electrical/electronics	100	0.1	(nc)
Electrical	100	0.1	19
Industrial	1,020	1.0	25
Mechanical	620	0.6	16
Other engineers	160	0.2	(nc)
Metallurgical/metallurgists	110	0.1	31
Safety	50	0.1	17
Technicians	710	0.7	(nc)
Computer, numerical tool, and process control programmers	190	0.2	(nc)
Computer programmers	150	0.1	16
Numerical tool and process control programmers	40	<	26
Drafters	190	0.2	(nc)
Mechanical drafters	190	0.2	19
Engineering technicians	330	0.3	(nc)
Electronical/electronics engineering technicians	130	0.1	13
Electro-mechanical technicians	50	0.1	32
Mechanical engineering technicians	150	0.1	29
Electric lighting and wiring equipment (SIC 3640)			
Scientific and technical personnel	12,300	6.6	(nc)
Managers of scientific and technical personnel	1,530	0.8	(nc)
Computer and information systems managers	430	0.2	8
Engineering managers	1,100	0.6	6
Scientists	1,190	0.6	(nc)
Computer scientists	890	0.5	(nc)
Computer software, systems	160	0.1	14
Computer systems analysts	380	0.2	6
Network and computer systems administrators	250	0.1	10
Network systems/data communications analysts	100	0.1	19
Mathematical scientists	80	<	(nc)
Operations and systems researchers and analysts	80	<	31
Physical scientists	50	<	(nc)
Chemists	50	<	25
Social scientists	170	0.1	(nc)
Market research analysts	170	0.1	14

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electric lighting and wiring equipment (SIC 3640) -- continued:			
Engineers	5,820	3.1	(nc)
Civil	30	<	19
Computer	150	0.1	34
Electrical/electronics	1,990	1.1	(nc)
Electrical	1,140	0.6	10
Electronics	850	0.5	13
Industrial	1,520	0.8	7
Mechanical	1,140	0.6	8
Sales	640	0.3	13
Other engineers	350	0.2	(nc)
Chemical	40	<	13
Environmental	30	<	14
Metallurgical/metallurgists	190	0.1	19
Safety	90	0.1	10
Technicians	3,760	2.0	(nc)
Computer, numerical tool, and process control programmers	600	0.3	(nc)
Computer programmers	330	0.2	10
Numerical tool and process control programmers	270	0.1	31
Drafters	1,010	0.5	(nc)
Electrical and electronics drafters	550	0.3	13
Mechanical drafters	460	0.3	10
Engineering technicians	2,090	1.1	(nc)
Electronical/electronics engineering technicians	1,190	0.6	11
Electro-mechanical technicians	280	0.2	24
Industrial engineering technicians	440	0.2	21
Mechanical engineering technicians	180	0.1	19
Physical and life science technicians	60	<	(nc)
Chemical technicians, except health	60	<	27
Household audio and video equipment (SIC 3650)			
Scientific and technical personnel	7,490	9.8	(nc)
Managers of scientific and technical personnel	640	0.8	(nc)
Engineering managers	640	0.8	16
Scientists	670	0.9	(nc)
Computer scientists	610	0.8	(nc)
Computer software, applications	210	0.3	15
Computer software, systems	150	0.2	14
Network and computer systems administrators	200	0.3	24
Network systems/data communications analysts	50	0.1	40
Social scientists	60	0.1	(nc)
Market research analysts	60	0.1	19

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Household audio and video equipment (SIC 3650) -- continued:			
Engineers	3,790	5.0	(nc)
Electrical/electronics	2,090	2.7	(nc)
Electrical	1,600	2.1	32
Electronics	490	0.6	15
Industrial	250	0.3	11
Mechanical	1,250	1.6	34
Sales	200	0.3	24
Technicians	2,390	3.1	(nc)
Computer, numerical tool, and process control programmers	190	0.3	(nc)
Computer programmers	190	0.3	22
Drafters	160	0.2	(nc)
Electrical and electronics drafters	130	0.2	24
Mechanical drafters	30	<	20
Engineering technicians	2,040	2.7	(nc)
Electronical/electronics engineering technicians	1,560	2.1	15
Industrial engineering technicians	160	0.2	26
Mechanical engineering technicians	60	0.1	35
All other engineering technicians	260	0.3	(nc)
Audio and video equipment technicians	220	0.3	44
Broadcast technicians	40	0.1	<
Communication equipment (SIC 3660)			
Scientific and technical personnel	71,530	25.1	(nc)
Managers of scientific and technical personnel	6,150	2.2	(nc)
Computer and information systems managers	1,400	0.5	15
Engineering managers	4,750	1.7	9
Scientists	20,910	7.4	(nc)
Computer scientists	19,300	6.8	(nc)
Computer and information scientists, research	1,140	0.4	41
Computer software, applications	7,370	2.6	31
Computer software, systems	6,400	2.3	14
Computer systems analysts	2,320	0.8	32
Network and computer systems administrators	1,440	0.5	12
Network systems/data communications analysts	630	0.2	20
Physical scientists	60	<	(nc)
Materials scientists	60	<	37
Social scientists	1,550	0.5	(nc)
Market research analysts	1,550	0.5	35

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Communication equipment (SIC 3660) -- continued:			
Engineers	24,870	8.7	(nc)
Civil	300	0.1	37
Computer	2,800	1.0	19
Electrical/electronics	13,330	4.7	(nc)
Electrical	7,290	2.6	19
Electronics	6,040	2.1	13
Industrial	3,460	1.2	14
Mechanical	2,470	0.9	18
Sales	2,120	0.8	22
Other engineers	390	0.1	(nc)
Environmental	30	<	22
Metallurgical/metallurgists	270	0.1	22
Safety	90	<	23
Technicians	19,600	6.9	(nc)
Computer, numerical tool, and process control programmers	2,810	1.0	(nc)
Computer programmers	2,660	0.9	44
Numerical tool and process control programmers	150	0.1	30
Drafters	1,950	0.7	(nc)
Electrical and electronics drafters	1,070	0.4	13
Mechanical drafters	880	0.3	21
Engineering technicians	14,840	5.2	(nc)
Civil engineering technicians	110	<	38
Electronical/electronics engineering technicians	10,930	3.8	10
Electro-mechanical technicians	1,350	0.5	23
Industrial engineering technicians	2,450	0.9	22
Electronic components and accessories (SIC 3670)			
Scientific and technical personnel	159,440	22.2	(nc)
Managers of scientific and technical personnel	14,080	2.0	(nc)
Computer and information systems managers	3,890	0.5	18
Engineering managers	10,190	1.4	6
Scientists	20,910	2.9	(nc)
Computer scientists	19,470	2.7	(nc)
Computer and information scientists, research	80	<	22
Computer software, applications	5,890	0.8	16
Computer software, systems	8,280	1.2	21
Computer systems analysts	2,980	0.4	16
Network and computer systems administrators	1,460	0.2	7
Network systems/data communications analysts	780	0.1	23
Mathematical scientists	100	<	(nc)
Operations and systems researchers and analysts	100	<	34
Physical scientists	460	0.1	(nc)
Chemists	460	0.1	14
Social scientists	880	0.1	(nc)
Market research analysts	880	0.1	10

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electronic components and accessories (SIC 3670) -- continued:			
Engineers	55,860	7.8	(nc)
Aeronautical	100	<	32
Civil	120	<	25
Computer	5,990	0.8	18
Electrical/electronics	24,220	3.4	(nc)
Electrical	10,050	1.4	11
Electronics	14,170	2.0	11
Industrial	12,580	1.8	10
Mechanical	6,780	0.9	18
Sales	2,660	0.4	15
Other engineers	3,410	0.5	(nc)
Environmental	350	0.1	12
Metallurgical/metallurgists	2,440	0.3	14
Safety	620	0.1	9
Technicians	68,590	9.6	(nc)
Computer, numerical tool, and process control programmers	3,310	0.5	(nc)
Computer programmers	3,310	0.5	16
Drafters	4,430	0.6	(nc)
Electrical and electronics drafters	3,270	0.5	27
Mechanical drafters	1,160	0.2	15
Engineering technicians	60,320	8.4	(nc)
Aerospace engineering and operations technicians	670	0.1	48
Electronical/electronics engineering technicians	46,340	6.5	13
Electro-mechanical technicians	3,930	0.6	18
Environmental engineering technicians	580	0.1	33
Industrial engineering technicians	6,650	0.9	12
Mechanical engineering technicians	2,150	0.3	17
Physical and life science technicians	530	0.1	(nc)
Chemical technicians, except health	530	0.1	17
Misc. electrical equipment & supplies (SIC 3690)			
Scientific and technical personnel	10,730	7.7	(nc)
Managers of scientific and technical personnel	1,130	0.8	(nc)
Computer and information systems managers	230	0.2	8
Engineering managers	900	0.7	8
Scientists	1,120	0.8	(nc)
Computer scientists	730	0.5	(nc)
Computer software, applications	190	0.1	14
Computer software, systems	240	0.2	26
Computer systems analysts	110	0.1	13
Network and computer systems administrators	190	0.1	11
Mathematical scientists	30	<	(nc)
Operations and systems researchers and analysts	30	<	18

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. electrical equipment & supplies (SIC 3690) -- continued:			
Physical scientists	190	0.1	(nc)
Chemists	190	0.1	36
Social scientists	170	0.1	(nc)
Market research analysts	170	0.1	16
Engineers	4,890	3.5	(nc)
Aeronautical	120	0.1	27
Civil	30	<	15
Computer	90	0.1	24
Electrical/electronics	1,470	1.1	(nc)
Electrical	1,150	0.8	13
Electronics	320	0.2	12
Industrial	1,180	0.9	9
Mechanical	1,350	1.0	8
Sales	210	0.2	11
Other engineers	440	0.3	(nc)
Chemical	180	0.1	17
Environmental	70	0.1	18
Metallurgical/metallurgists	110	0.1	20
Safety	80	0.1	13
Technicians	3,590	2.6	(nc)
Computer, numerical tool, and process control programmers	260	0.2	(nc)
Computer programmers	200	0.1	12
Numerical tool and process control programmers	60	<	14
Drafters	690	0.5	(nc)
Electrical and electronics drafters	300	0.2	11
Mechanical drafters	390	0.3	14
Engineering technicians	2,460	1.8	(nc)
Electronical/electronics engineering technicians	1,240	0.9	8
Electro-mechanical technicians	480	0.4	19
Industrial engineering technicians	340	0.2	17
Mechanical engineering technicians	400	0.3	24
Physical and life science technicians	180	0.1	(nc)
Chemical technicians, except health	180	0.1	24
Motor vehicles and equipment (SIC 3710)			
Scientific and technical personnel	52,110	5.2	(nc)
Managers of scientific and technical personnel	7,850	0.8	(nc)
Computer and information systems managers	1,500	0.2	17
Engineering managers	6,350	0.6	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Motor vehicles and equipment (SIC 3710) -- continued:			
Scientists	3,310	0.3	(nc)
Computer scientists	2,560	0.3	(nc)
Computer and information scientists, research	70	<	20
Computer software, applications	380	<	11
Computer software, systems	240	<	26
Computer systems analysts	1,570	0.2	13
Network and computer systems administrators	170	<	13
Network systems/data communications analysts	130	<	20
Mathematical scientists	430	<	(nc)
Operations and systems researchers and analysts	430	<	23
Physical scientists	40	<	(nc)
Materials scientists	40	<	40
Social scientists	280	<	(nc)
Economists	30	<	36
Market research analysts	250	<	19
Engineers	28,620	2.8	(nc)
Civil	60	<	31
Computer	280	<	41
Electrical/electronics	1,490	0.2	(nc)
Electrical	1,180	0.1	24
Electronics	310	<	13
Industrial	14,570	1.4	5
Mechanical	8,800	0.9	9
Sales	1,270	0.1	26
Other engineers	2,150	0.2	(nc)
Chemical	100	<	18
Environmental	100	<	10
Metallurgical/metallurgists	1,160	0.1	16
Safety	790	0.1	11
Technicians	12,330	1.2	(nc)
Computer, numerical tool, and process control programmers	2,080	0.2	(nc)
Computer programmers	1,110	0.1	17
Numerical tool and process control programmers	970	0.1	13
Drafters	3,660	0.4	(nc)
Architectural and civil drafters	40	<	33
Electrical and electronics drafters	220	<	14
Mechanical drafters	3,400	0.3	15
Engineering technicians	6,330	0.6	(nc)
Aerospace engineering and operations technicians	60	<	35
Electronical/electronics engineering technicians	780	0.1	9
Electro-mechanical technicians	420	<	17
Environmental engineering technicians	40	<	25
Industrial engineering technicians	2,290	0.2	10
Mechanical engineering technicians	2,360	0.2	8
All other engineering technicians	380	<	(nc)
Transportation inspectors	380	<	32

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Motor vehicles and equipment (SIC 3710) -- continued:			
Physical and life science technicians	260	<	(nc)
Chemical technicians, except health	120	<	19
Environmental science and protection technicians, including health	140	<	14
Aircraft and parts (SIC 3720)			
Scientific and technical personnel	115,600	24.8	(nc)
Managers of scientific and technical personnel	11,200	2.4	(nc)
Computer and information systems managers	2,360	0.5	14
Engineering managers	8,840	1.9	11
Scientists	23,600	5.1	(nc)
Computer scientists	17,590	3.8	(nc)
Computer software, applications	780	0.2	24
Computer software, systems	3,700	0.8	21
Computer systems analysts	10,620	2.3	15
Network and computer systems administrators	1,790	0.4	28
Network systems/data communications analysts	700	0.2	28
Mathematical scientists	5,110	1.1	(nc)
Operations and systems researchers and analysts	5,110	1.1	37
Physical scientists	520	0.1	(nc)
Chemists	60	<	33
Environmental scientists and specialists, including health	50	<	23
Materials scientists	410	0.1	50
Social scientists	380	0.1	(nc)
Market research analysts	380	0.1	29
Engineers	53,830	11.5	(nc)
Aeronautical	34,210	7.3	12
Civil	240	0.1	25
Computer	510	0.1	44
Electrical/electronics	1,950	0.4	(nc)
Electrical	680	0.2	34
Electronics	1,270	0.3	27
Industrial	7,890	1.7	9
Mechanical	5,960	1.3	19
Sales	570	0.1	20
Other engineers	2,500	0.5	(nc)
Environmental	180	<	13
Metallurgical/metallurgists	1,190	0.3	38
Safety	1,130	0.2	10
Technicians	26,970	5.8	(nc)
Computer, numerical tool, and process control programmers	3,270	0.7	(nc)
Computer programmers	1,720	0.4	13
Numerical tool and process control programmers	1,550	0.3	14
Drafters	2,100	0.5	(nc)
Electrical and electronics drafters	430	0.1	39
Mechanical drafters	1,670	0.4	21

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Aircraft and parts (SIC 3720) -- continued:			
Engineering technicians	20,290	4.4	(nc)
Aerospace engineering and operations technicians	7,060	1.5	15
Electronical/electronics engineering technicians	1,770	0.4	30
Electro-mechanical technicians	1,590	0.3	16
Environmental engineering technicians	70	<	28
Industrial engineering technicians	4,820	1.0	14
All other engineering technicians	4,980	1.1	(nc)
Audio and video equipment technicians	30	<	31
Transportation inspectors	4,950	1.1	28
Physical and life science technicians	1,310	0.3	(nc)
Chemical technicians, except health	1,090	0.2	19
Environmental science and protection technicians, including health	220	0.1	19
Ship and boat building and repairing (SIC 3730)			
Scientific and technical personnel	2,330	1.4	(nc)
Managers of scientific and technical personnel	910	0.5	(nc)
Computer and information systems managers	140	0.1	29
Engineering managers	770	0.5	25
Scientists	240	0.1	(nc)
Computer scientists	190	0.1	(nc)
Computer systems analysts	190	0.1	36
Social scientists	50	<	(nc)
Market research analysts	50	<	36
Engineers	860	0.5	(nc)
Electrical/electronics	210	0.1	(nc)
Electrical	210	0.1	31
Industrial	400	0.2	21
Sales	70	<	27
Other engineers	180	0.1	(nc)
Safety	180	0.1	14
Technicians	320	0.2	(nc)
Computer, numerical tool, and process control programmers	50	<	(nc)
Computer programmers	50	<	22
Drafters	40	<	(nc)
Electrical and electronics drafters	40	<	37
Engineering technicians	180	0.1	(nc)
Electronical/electronics engineering technicians	110	0.1	18
All other engineering technicians	70	<	(nc)
Transportation inspectors	70	<	36
Physical and life science technicians	50	<	(nc)
Environmental science and protection technicians, including health	50	<	34

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Railroad equipment (SIC 3740)			
Scientific and technical personnel	1,880	5.9	(nc)
Managers of scientific and technical personnel	290	0.9	(nc)
Computer and information systems managers	60	0.2	10
Engineering managers	230	0.7	6
Scientists	50	0.2	(nc)
Computer scientists	50	0.2	(nc)
Computer systems analysts	50	0.2	4
Engineers	920	2.9	(nc)
Electrical/electronics	50	0.2	(nc)
Electrical	50	0.2	24
Industrial	540	1.7	1
Mechanical	290	0.9	11
Other engineers	40	0.1	(nc)
Metallurgical/metallurgists	40	0.1	23
Technicians	620	2.0	(nc)
Computer, numerical tool, and process control programmers	50	0.2	(nc)
Numerical tool and process control programmers	50	0.2	8
Drafters	110	0.4	(nc)
Electrical and electronics drafters	40	0.1	37
Mechanical drafters	70	0.2	6
Engineering technicians	460	1.5	(nc)
Electronical/electronics engineering technicians	300	0.9	1
Industrial engineering technicians	40	0.1	19
Mechanical engineering technicians	120	0.4	18
Motorcycles, bicycles, and parts (SIC 3750)			
Scientific and technical personnel	1,430	7.7	(nc)
Managers of scientific and technical personnel	180	1.0	(nc)
Computer and information systems managers	70	0.4	25
Engineering managers	110	0.6	21
Engineers	1,000	5.4	(nc)
Industrial	40	0.2	23
Mechanical	960	5.2	41
Technicians	250	1.3	(nc)
Computer, numerical tool, and process control programmers	90	0.5	(nc)
Computer programmers	30	0.2	28
Numerical tool and process control programmers	60	0.3	40
Drafters	40	0.2	(nc)
Mechanical drafters	40	0.2	24
Engineering technicians	120	0.6	(nc)
Mechanical engineering technicians	120	0.6	35

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Guided missiles, space vehicles, parts (SIC 3760)			
Scientific and technical personnel	29,580	43.1	(nc)
Managers of scientific and technical personnel	3,440	5.0	(nc)
Computer and information systems managers	200	0.3	28
Engineering managers	3,240	4.7	29
Scientists	5,450	8.0	(nc)
Computer scientists	3,880	5.7	(nc)
Computer and information scientists, research	480	0.7	49
Computer software, applications	1,110	1.6	40
Computer software, systems	790	1.2	25
Computer systems analysts	1,260	1.8	35
Network and computer systems administrators	240	0.4	27
Mathematical scientists	1,420	2.1	(nc)
Mathematicians	30	<	45
Operations and systems researchers and analysts	1,390	2.0	36
Physical scientists	150	0.2	(nc)
Materials scientists	150	0.2	37
Engineers	16,400	23.9	(nc)
Aeronautical	9,400	13.7	41
Civil	60	0.1	39
Computer	80	0.1	41
Electrical/electronics	2,350	3.4	(nc)
Electrical	420	0.6	38
Electronics	1,930	2.8	31
Industrial	2,930	4.3	28
Mechanical	1,120	1.6	30
Sales	60	0.1	35
Other engineers	400	0.6	(nc)
Chemical	190	0.3	47
Metallurgical/metallurgists	60	0.1	28
Safety	150	0.2	16
Technicians	4,290	6.2	(nc)
Computer, numerical tool, and process control programmers	260	0.4	(nc)
Computer programmers	260	0.4	17
Drafters	280	0.4	(nc)
Electrical and electronics drafters	140	0.2	26
Mechanical drafters	140	0.2	19
Engineering technicians	3,570	5.2	(nc)
Aerospace engineering and operations technicians	810	1.2	24
Electronical/electronics engineering technicians	1,100	1.6	22
Electro-mechanical technicians	700	1.0	33
Environmental engineering technicians	30	<	32
Industrial engineering technicians	370	0.5	27
Mechanical engineering technicians	560	0.8	10

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Guided missiles, space vehicles, parts (SIC 3760) -- continued:			
Physical and life science technicians	180	0.3	(nc)
Chemical technicians, except health	50	0.1	30
Environmental science and protection technicians, including health	130	0.2	45
Miscellaneous transportation equipment (SIC 3790)			
Scientific and technical personnel	2,000	3.2	(nc)
Managers of scientific and technical personnel	260	0.4	(nc)
Computer and information systems managers	90	0.1	14
Engineering managers	170	0.3	11
Scientists	130	0.2	(nc)
Computer scientists	90	0.2	(nc)
Computer software, applications	60	0.1	30
Computer software, systems	30	0.1	37
Mathematical scientists	40	0.1	(nc)
Operations and systems researchers and analysts	40	0.1	48
Engineers	850	1.4	(nc)
Electrical/electronics	80	0.1	(nc)
Electrical	80	0.1	28
Industrial	420	0.7	28
Mechanical	320	0.5	15
Other engineers	30	0.1	(nc)
Safety	30	0.1	17
Technicians	760	1.2	(nc)
Computer, numerical tool, and process control programmers	220	0.4	(nc)
Computer programmers	180	0.3	19
Numerical tool and process control programmers	40	0.1	26
Drafters	140	0.2	(nc)
Mechanical drafters	140	0.2	16
Engineering technicians	400	0.6	(nc)
Industrial engineering technicians	230	0.4	35
Mechanical engineering technicians	170	0.3	23
Search and navigation equipment (SIC 3810)			
Scientific and technical personnel	56,790	38.9	(nc)
Managers of scientific and technical personnel	5,780	4.0	(nc)
Computer and information systems managers	870	0.6	10
Engineering managers	4,910	3.4	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Search and navigation equipment (SIC 3810) -- continued:			
Scientists	8,170	5.6	(nc)
Computer scientists	7,870	5.4	(nc)
Computer software, applications	1,620	1.1	17
Computer software, systems	4,870	3.3	16
Computer systems analysts	960	0.7	14
Network and computer systems administrators	420	0.3	13
Mathematical scientists	100	0.1	(nc)
Operations and systems researchers and analysts	100	0.1	47
Physical scientists	200	0.1	(nc)
Materials scientists	200	0.1	34
Engineers	33,220	22.8	(nc)
Aeronautical	5,920	4.1	40
Civil	170	0.1	31
Computer	1,550	1.1	13
Electrical/electronics	17,710	12.1	(nc)
Electrical	9,200	6.3	21
Electronics	8,510	5.8	23
Industrial	4,350	3.0	10
Mechanical	2,950	2.0	9
Sales	300	0.2	9
Other engineers	270	0.2	(nc)
Environmental	80	0.1	13
Marine	30	<	31
Safety	160	0.1	22
Technicians	9,620	6.6	(nc)
Drafters	960	0.7	(nc)
Electrical and electronics drafters	540	0.4	10
Mechanical drafters	420	0.3	14
Engineering technicians	8,660	5.9	(nc)
Aerospace engineering and operations technicians	1,610	1.1	15
Civil engineering technicians	50	<	47
Electronical/electronics engineering technicians	3,930	2.7	9
Electro-mechanical technicians	990	0.7	12
Industrial engineering technicians	1,220	0.8	17
Mechanical engineering technicians	860	0.6	22
Measuring and controlling devices (SIC 3820)			
Scientific and technical personnel	76,620	24.6	(nc)
Managers of scientific and technical personnel	7,410	2.4	(nc)
Computer and information systems managers	1,540	0.5	8
Engineering managers	5,820	1.9	5
Natural sciences managers	50	<	31

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Measuring and controlling devices (SIC 3820) -- continued:			
Scientists	16,120	5.2	(nc)
Computer scientists	13,750	4.4	(nc)
Computer and information scientists, research	150	0.1	49
Computer software, applications	5,920	1.9	7
Computer software, systems	4,440	1.4	11
Computer systems analysts	1,720	0.6	11
Network and computer systems administrators	1,050	0.3	9
Network systems/data communications analysts	470	0.2	14
Life scientists	50	<	(nc)
Biochemists and biophysicists	50	<	44
Mathematical scientists	320	0.1	(nc)
Operations and systems researchers and analysts	320	0.1	35
Physical scientists	1,060	0.3	(nc)
Atmospheric and space scientists	60	<	43
Chemists	840	0.3	29
Materials scientists	60	<	28
Physicists	100	<	27
Social scientists	940	0.3	(nc)
Market research analysts	940	0.3	13
Engineers	32,280	10.4	(nc)
Aeronautical	110	<	38
Civil	140	<	40
Computer	2,070	0.7	13
Electrical/electronics	14,350	4.6	(nc)
Electrical	9,650	3.1	19
Electronics	4,700	1.5	11
Industrial	4,790	1.5	10
Mechanical	6,260	2.0	9
Sales	3,190	1.0	7
Other engineers	1,370	0.4	(nc)
Biomedical	100	<	31
Chemical	310	0.1	29
Environmental	100	<	18
Metallurgical/metallurgists	580	0.2	13
Safety	280	0.1	32
Technicians	20,810	6.7	(nc)
Computer, numerical tool, and process control programmers	350	0.1	(nc)
Numerical tool and process control programmers	350	0.1	19
Drafters	3,340	1.1	(nc)
Architectural and civil drafters	30	<	27
Electrical and electronics drafters	1,670	0.5	8
Mechanical drafters	1,640	0.5	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Measuring and controlling devices (SIC 3820) -- continued:			
Engineering technicians	16,800	5.4	(nc)
Aerospace engineering and operations technicians	190	0.1	46
Civil engineering technicians	180	0.1	8
Electronical/electronics engineering technicians	9,570	3.1	7
Electro-mechanical technicians	2,240	0.7	14
Environmental engineering technicians	50	<	29
Industrial engineering technicians	3,070	1.0	23
Mechanical engineering technicians	1,500	0.5	13
Physical and life science technicians	320	0.1	(nc)
Chemical technicians, except health	320	0.1	18
Medical instruments and supplies (SIC 3840)			
Scientific and technical personnel	29,210	10.2	(nc)
Managers of scientific and technical personnel	3,480	1.2	(nc)
Computer and information systems managers	820	0.3	8
Engineering managers	2,480	0.9	5
Natural sciences managers	180	0.1	27
Scientists	5,330	1.9	(nc)
Computer scientists	3,190	1.1	(nc)
Computer software, applications	1,200	0.4	17
Computer software, systems	650	0.2	18
Computer systems analysts	730	0.3	13
Network and computer systems administrators	610	0.2	8
Life scientists	290	0.1	(nc)
Biochemists and biophysicists	80	<	38
Medical scientists, except epidemiologists	70	<	29
Microbiologists	140	0.1	24
Mathematical scientists	100	<	(nc)
Operations and systems researchers and analysts	100	<	24
Physical scientists	1,000	0.4	(nc)
Chemists	1,000	0.4	29
Social scientists	750	0.3	(nc)
Market research analysts	750	0.3	16
Engineers	12,250	4.3	(nc)
Computer	330	0.1	28
Electrical/electronics	2,410	0.8	(nc)
Electrical	1,770	0.6	13
Electronics	640	0.2	14
Industrial	3,370	1.2	8
Mechanical	3,460	1.2	9
Sales	460	0.2	18
Other engineers	2,220	0.8	(nc)
Biomedical	1,450	0.5	15
Environmental	40	<	16
Metallurgical/metallurgists	600	0.2	13
Safety	130	0.1	10

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Medical instruments and supplies (SIC 3840) -- continued:			
Technicians	8,150	2.9	(nc)
Computer, numerical tool, and process control programmers	810	0.3	(nc)
Computer programmers	740	0.3	11
Numerical tool and process control programmers	70	<	26
Drafters	1,200	0.4	(nc)
Electrical and electronics drafters	220	0.1	19
Mechanical drafters	980	0.3	10
Engineering technicians	5,580	2.0	(nc)
Electronical/electronics engineering technicians	1,960	0.7	12
Electro-mechanical technicians	870	0.3	24
Industrial engineering technicians	1,570	0.6	12
Mechanical engineering technicians	1,180	0.4	12
Physical and life science technicians	560	0.2	(nc)
Biological technicians	190	0.1	19
Chemical technicians, except health	370	0.1	16
Ophthalmic goods (SIC 3850)			
Scientific and technical personnel	1,330	4.2	(nc)
Managers of scientific and technical personnel	290	0.9	(nc)
Computer and information systems managers	140	0.4	17
Engineering managers	150	0.5	24
Scientists	270	0.9	(nc)
Computer scientists	270	0.9	(nc)
Computer software, applications	40	0.1	30
Computer software, systems	30	0.1	27
Computer systems analysts	120	0.4	21
Network and computer systems administrators	40	0.1	20
Network systems/data communications analysts	40	0.1	31
Engineers	410	1.3	(nc)
Industrial	280	0.9	23
Other engineers	130	0.4	(nc)
Metallurgical/metallurgists	130	0.4	18
Technicians	360	1.1	(nc)
Computer, numerical tool, and process control programmers	80	0.3	(nc)
Computer programmers	80	0.3	23
Engineering technicians	280	0.9	(nc)
Electro-mechanical technicians	230	0.7	38
Mechanical engineering technicians	50	0.2	9
Photographic equipment and supplies (SIC 3860)			
Scientific and technical personnel	7,940	11.6	(nc)
Managers of scientific and technical personnel	310	0.5	(nc)
Computer and information systems managers	100	0.2	15
Engineering managers	210	0.3	9

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Photographic equipment and supplies (SIC 3860) -- continued:			
Scientists	820	1.2	(nc)
Computer scientists	460	0.7	(nc)
Computer and information scientists, research	310	0.5	39
Network and computer systems administrators	100	0.2	20
Network systems/data communications analysts	50	0.1	38
Physical scientists	360	0.5	(nc)
Chemists	360	0.5	25
Engineers	5,000	7.3	(nc)
Electrical/electronics	690	1.0	(nc)
Electrical	130	0.2	14
Electronics	560	0.8	30
Mechanical	750	1.1	33
Sales	150	0.2	15
Other engineers	3,410	5.0	(nc)
Environmental	3,150	4.6	24
Metallurgical/metallurgists	230	0.3	25
Safety	30	<	22
Technicians	1,810	2.6	(nc)
Computer, numerical tool, and process control programmers	400	0.6	(nc)
Computer programmers	200	0.3	17
Numerical tool and process control programmers	200	0.3	39
Drafters	70	0.1	(nc)
Mechanical drafters	70	0.1	29
Engineering technicians	1,340	2.0	(nc)
Electronical/electronics engineering technicians	770	1.1	27
Industrial engineering technicians	450	0.7	28
Mechanical engineering technicians	120	0.2	34
Watches, clocks, watchcases & parts (SIC 3870)			
Scientific and technical personnel	60	1.5	(nc)
Engineers	60	1.5	(nc)
Industrial	30	0.8	23
Mechanical	30	0.8	25
Jewelry, silverware, and plated ware (SIC 3910)			
Scientific and technical personnel	400	0.8	(nc)
Managers of scientific and technical personnel	100	0.2	(nc)
Computer and information systems managers	70	0.1	13
Engineering managers	30	0.1	19

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Jewelry, silverware, and plated ware (SIC 3910) -- continued:			
Scientists	140	0.3	(nc)
Computer scientists	100	0.2	(nc)
Computer systems analysts	60	0.1	20
Network and computer systems administrators	40	0.1	18
Social scientists	40	0.1	(nc)
Market research analysts	40	0.1	31
Engineers	50	0.1	(nc)
Industrial	50	0.1	17
Technicians	110	0.2	(nc)
Computer, numerical tool, and process control programmers	110	0.2	(nc)
Computer programmers	110	0.2	17
Musical instruments (SIC 3930)			
Scientific and technical personnel	610	3.7	(nc)
Managers of scientific and technical personnel	40	0.2	(nc)
Engineering managers	40	0.2	16
Scientists	80	0.5	(nc)
Computer scientists	80	0.5	(nc)
Computer software, systems	50	0.3	27
Network and computer systems administrators	30	0.2	17
Engineers	280	1.7	(nc)
Electrical/electronics	180	1.1	(nc)
Electrical	40	0.2	28
Electronics	140	0.9	24
Industrial	50	0.3	21
Mechanical	50	0.3	20
Technicians	210	1.3	(nc)
Computer, numerical tool, and process control programmers	50	0.3	(nc)
Computer programmers	50	0.3	20
Drafters	90	0.6	(nc)
Electrical and electronics drafters	40	0.2	34
Mechanical drafters	50	0.3	37
Engineering technicians	70	0.4	(nc)
Electronical/electronics engineering technicians	40	0.2	27
Industrial engineering technicians	30	0.2	29

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Toys and sporting goods (SIC 3940)			
Scientific and technical personnel	2,890	2.9	(nc)
Managers of scientific and technical personnel	570	0.6	(nc)
Computer and information systems managers	200	0.2	13
Engineering managers	370	0.4	9
Scientists	730	0.7	(nc)
Computer scientists	570	0.6	(nc)
Computer software, applications	90	0.1	21
Computer software, systems	50	0.1	39
Computer systems analysts	250	0.3	25
Network and computer systems administrators	110	0.1	13
Network systems/data communications analysts	70	0.1	36
Physical scientists	70	0.1	(nc)
Chemists	70	0.1	20
Social scientists	90	0.1	(nc)
Market research analysts	90	0.1	24
Engineers	830	0.8	(nc)
Electrical/electronics	30	<	(nc)
Electrical	30	<	24
Industrial	360	0.4	12
Mechanical	300	0.3	14
Other engineers	140	0.1	(nc)
Metallurgical/metallurgists	110	0.1	20
Safety	30	<	19
Technicians	760	0.8	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	17
Drafters	260	0.3	(nc)
Mechanical drafters	260	0.3	17
Engineering technicians	360	0.4	(nc)
Electronical/electronics engineering technicians	60	0.1	22
Electro-mechanical technicians	70	0.1	35
Industrial engineering technicians	100	0.1	18
Mechanical engineering technicians	130	0.1	19
Physical and life science technicians	40	<	(nc)
Chemical technicians, except health	40	<	20
Pens, pencils, office, & art supplies (SIC 3950)			
Scientific and technical personnel	810	2.7	(nc)
Managers of scientific and technical personnel	200	0.7	(nc)
Computer and information systems managers	70	0.2	17
Engineering managers	130	0.4	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Pens, pencils, office, & art supplies (SIC 3950) -- continued:			
Scientists	180	0.6	(nc)
Computer scientists	120	0.4	(nc)
Computer software, systems	40	0.1	36
Computer systems analysts	40	0.1	25
Network and computer systems administrators	40	0.1	18
Physical scientists	60	0.2	(nc)
Chemists	60	0.2	6
Engineers	200	0.7	(nc)
Industrial	90	0.3	20
Mechanical	110	0.4	22
Technicians	230	0.8	(nc)
Computer, numerical tool, and process control programmers	60	0.2	(nc)
Computer programmers	60	0.2	17
Drafters	100	0.3	(nc)
Mechanical drafters	100	0.3	30
Engineering technicians	40	0.1	(nc)
Industrial engineering technicians	40	0.1	29
Physical and life science technicians	30	0.1	(nc)
Chemical technicians, except health	30	0.1	11
Costume jewelry and notions (SIC 3960)			
Scientific and technical personnel	140	0.8	(nc)
Managers of scientific and technical personnel	30	0.2	(nc)
Computer and information systems managers	30	0.2	16
Scientists	30	0.2	(nc)
Computer scientists	30	0.2	(nc)
Computer systems analysts	30	0.2	21
Engineers	40	0.2	(nc)
Mechanical	40	0.2	14
Technicians	40	0.2	(nc)
Computer, numerical tool, and process control programmers	40	0.2	(nc)
Computer programmers	40	0.2	42

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous manufactures (SIC 3990)			
Scientific and technical personnel	5,400	3.0	(nc)
Managers of scientific and technical personnel	770	0.4	(nc)
Computer and information systems managers	280	0.2	8
Engineering managers	490	0.3	11
Scientists	1,260	0.7	(nc)
Computer scientists	1,150	0.7	(nc)
Computer software, applications	430	0.2	28
Computer software, systems	260	0.2	37
Computer systems analysts	210	0.1	9
Network and computer systems administrators	190	0.1	8
Network systems/data communications analysts	60	<	16
Physical scientists	40	<	(nc)
Chemists	40	<	16
Social scientists	70	<	(nc)
Market research analysts	70	<	13
Engineers	1,440	0.8	(nc)
Civil	40	<	14
Computer	40	<	31
Electrical/electronics	500	0.3	(nc)
Electrical	230	0.1	17
Electronics	270	0.2	24
Industrial	230	0.1	10
Mechanical	380	0.2	12
Sales	120	0.1	16
Other engineers	130	0.1	(nc)
Metallurgical/metallurgists	100	0.1	21
Safety	30	<	27

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers
in SICs 33-39 (selected manufacturing industries, continued),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous manufactures (SIC 3990) -- continued:			
Technicians	1,930	1.1	(nc)
Computer, numerical tool, and process control programmers	360	0.2	(nc)
Computer programmers	200	0.1	15
Numerical tool and process control programmers	160	0.1	28
Drafters	840	0.5	(nc)
Electrical and electronics drafters	310	0.2	27
Mechanical drafters	530	0.3	10
Engineering technicians	680	0.4	(nc)
Electronical/electronics engineering technicians	360	0.2	16
Electro-mechanical technicians	130	0.1	40
Industrial engineering technicians	70	<	11
Mechanical engineering technicians	120	0.1	26
Physical and life science technicians	50	<	(nc)
Chemical technicians, except health	50	<	8

[1] SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2] Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY: nc = Not computed
< = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Railroad transportation (SIC 4010)			
Scientific and technical personnel	12,780	5.8	(nc)
Managers of scientific and technical personnel	200	0.1	(nc)
Computer and information systems managers	170	0.1	39
Engineering managers	30	<	31
Scientists	590	0.3	(nc)
Computer scientists	590	0.3	(nc)
Computer software, systems	180	0.1	49
Computer systems analysts	350	0.2	28
Network and computer systems administrators	60	<	44
Engineers	9,190	4.1	(nc)
Civil	160	0.1	31
Other engineers	9,030	4.1	(nc)
Environmental	40	<	28
Safety	8,990	4.0	32
Technicians	2,800	1.3	(nc)
Computer, numerical tool, and process control programmers	80	<	(nc)
Computer programmers	80	<	32
Engineering technicians	2,720	1.2	(nc)
Electronical/electronics engineering technicians	180	0.1	27
All other engineering technicians	2,540	1.1	(nc)
Transportation inspectors	2,540	1.1	14
Local and suburban transportation (SIC 4110)			
Scientific and technical personnel	350	0.1	(nc)
Managers of scientific and technical personnel	120	0.1	(nc)
Computer and information systems managers	120	0.1	18
Scientists	80	<	(nc)
Computer scientists	80	<	(nc)
Network and computer systems administrators	80	<	13
Technicians	150	0.1	(nc)
Computer, numerical tool, and process control programmers	50	<	(nc)
Computer programmers	50	<	22
Engineering technicians	100	<	(nc)
All other engineering technicians	100	<	(nc)
Transportation inspectors	100	<	8

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Bus charter service (SIC 4140)			
Scientific and technical personnel	30	0.1	(nc)
Technicians	30	0.1	(nc)
Engineering technicians	30	0.1	(nc)
All other engineering technicians	30	0.1	(nc)
Transportation inspectors	30	0.1	33
School buses (SIC 4150)			
Scientific and technical personnel	200	0.1	(nc)
Technicians	200	0.1	(nc)
Engineering technicians	200	0.1	(nc)
All other engineering technicians	200	0.1	(nc)
Transportation inspectors	200	0.1	42
Trucking and courier services, excl. air (SIC 4210)			
Scientific and technical personnel	4,320	0.3	(nc)
Managers of scientific and technical personnel	1,070	0.1	(nc)
Computer and information systems managers	940	0.1	10
Engineering managers	130	<	23
Scientists	1,050	0.1	(nc)
Computer scientists	770	0.1	(nc)
Computer systems analysts	290	<	28
Network and computer systems administrators	430	<	9
Network systems/data communications analysts	50	<	27
Mathematical scientists	80	<	(nc)
Operations and systems researchers and analysts	80	<	17
Social scientists	200	<	(nc)
Economists	110	<	38
Market research analysts	90	<	20
Engineers	280	<	(nc)
Sales	140	<	17
Other engineers	140	<	(nc)
Safety	140	<	10
Technicians	1,920	0.1	(nc)
Computer, numerical tool, and process control programmers	1,260	0.1	(nc)
Computer programmers	1,260	0.1	15
Engineering technicians	660	<	(nc)
All other engineering technicians	660	<	(nc)
Transportation inspectors	660	<	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Public warehousing and storage (SIC 4220)			
Scientific and technical personnel	1,300	0.6	(nc)
Managers of scientific and technical personnel	400	0.2	(nc)
Computer and information systems managers	300	0.1	13
Engineering managers	100	0.1	13
Scientists	520	0.2	(nc)
Computer scientists	520	0.2	(nc)
Computer systems analysts	110	0.1	23
Network and computer systems administrators	410	0.2	27
Engineers	40	<	(nc)
Other engineers	40	<	(nc)
Safety	40	<	15
Technicians	340	0.2	(nc)
Computer, numerical tool, and process control programmers	290	0.1	(nc)
Computer programmers	290	0.1	12
Engineering technicians	50	<	(nc)
All other engineering technicians	50	<	(nc)
Transportation inspectors	50	<	47
Trucking terminal facilities (SIC 4230)			
Scientific and technical personnel	100	1.2	(nc)
Technicians	100	1.2	(nc)
Engineering technicians	100	1.2	(nc)
All other engineering technicians	100	1.2	(nc)
Transportation inspectors	100	1.2	34
Deep sea foreign transportation of freight (SIC 4410)			
Scientific and technical personnel	550	3.9	(nc)
Managers of scientific and technical personnel	220	1.5	(nc)
Computer and information systems managers	120	0.8	15
Engineering managers	100	0.7	38
Scientists	50	0.4	(nc)
Computer scientists	50	0.4	(nc)
Network and computer systems administrators	50	0.4	18
Engineers	30	0.2	(nc)
Other engineers	30	0.2	(nc)
Marine	30	0.2	14
Technicians	250	1.8	(nc)
Computer, numerical tool, and process control programmers	250	1.8	(nc)
Computer programmers	250	1.8	24

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Deep sea domestic transportation of freight (SIC 4420)			
Scientific and technical personnel	260	4.0	(nc)
Managers of scientific and technical personnel	60	0.9	(nc)
Computer and information systems managers	60	0.9	16
Scientists	60	0.9	(nc)
Mathematical scientists	60	0.9	(nc)
Operations and systems researchers and analysts	60	0.9	36
Engineers	50	0.8	(nc)
Other engineers	50	0.8	(nc)
Marine	50	0.8	29
Technicians	90	1.4	(nc)
Computer, numerical tool, and process control programmers	60	0.9	(nc)
Computer programmers	60	0.9	23
Engineering technicians	30	0.5	(nc)
All other engineering technicians	30	0.5	(nc)
Transportation inspectors	30	0.5	36
Water transportation of freight, n.e.c. (SIC 4440)			
Scientific and technical personnel	230	1.6	(nc)
Managers of scientific and technical personnel	40	0.3	(nc)
Engineering managers	40	0.3	19
Engineers	190	1.3	(nc)
Other engineers	190	1.3	(nc)
Marine	190	1.3	28
Water transportation of passengers (SIC 4480)			
Scientific and technical personnel	50	0.2	(nc)
Managers of scientific and technical personnel	50	0.2	(nc)
Computer and information systems managers	50	0.2	30
Water transportation services (SIC 4490)			
Scientific and technical personnel	760	0.6	(nc)
Managers of scientific and technical personnel	100	0.1	(nc)
Computer and information systems managers	40	<	18
Engineering managers	60	0.1	25
Engineers	450	0.4	(nc)
Other engineers	450	0.4	(nc)
Marine	450	0.4	48

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Water transportation services (SIC 4490) -- continued:			
Technicians	210	0.2	(nc)
Engineering technicians	210	0.2	(nc)
All other engineering technicians	210	0.2	(nc)
Transportation inspectors	210	0.2	24
Air transportation, scheduled (SIC 4510)			
Scientific and technical personnel	19,400	1.7	(nc)
Managers of scientific and technical personnel	1,390	0.1	(nc)
Computer and information systems managers	730	0.1	10
Engineering managers	660	0.1	9
Scientists	4,400	0.4	(nc)
Computer scientists	3,130	0.3	(nc)
Computer software, applications	810	0.1	24
Computer software, systems	310	<	20
Computer systems analysts	880	0.1	13
Network and computer systems administrators	750	0.1	28
Network systems/data communications analysts	380	<	16
Mathematical scientists	670	0.1	(nc)
Operations and systems researchers and analysts	670	0.1	17
Physical scientists	120	<	(nc)
Atmospheric and space scientists	120	<	16
Social scientists	480	<	(nc)
Market research analysts	480	<	24
Engineers	5,340	0.5	(nc)
Aeronautical	4,690	0.4	28
Civil	70	<	29
Industrial	470	<	26
Other engineers	110	<	(nc)
Safety	110	<	14
Technicians	8,270	0.7	(nc)
Computer, numerical tool, and process control programmers	970	0.1	(nc)
Computer programmers	970	0.1	12
Engineering technicians	7,300	0.6	(nc)
Aerospace engineering and operations technicians	4,100	0.4	20
Electronical/electronics engineering technicians	140	<	50
Industrial engineering technicians	220	<	22
All other engineering technicians	2,840	0.3	(nc)
Transportation inspectors	2,840	0.3	10

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Air transportation, nonscheduled (SIC 4520)			
Scientific and technical personnel	230	0.5	(nc)
Managers of scientific and technical personnel	30	0.1	(nc)
Computer and information systems managers	30	0.1	30
Scientists	40	0.1	(nc)
Computer scientists	40	0.1	(nc)
Network and computer systems administrators	40	0.1	27
Engineers	30	0.1	(nc)
Other engineers	30	0.1	(nc)
Safety	30	0.1	36
Technicians	130	0.3	(nc)
Computer, numerical tool, and process control programmers	60	0.1	(nc)
Computer programmers	60	0.1	50
Engineering technicians	70	0.1	(nc)
All other engineering technicians	70	0.1	(nc)
Transportation inspectors	70	0.1	25
Airports, flying fields, and services (SIC 4580)			
Scientific and technical personnel	3,090	2.1	(nc)
Managers of scientific and technical personnel	240	0.2	(nc)
Computer and information systems managers	150	0.1	30
Engineering managers	90	0.1	22
Scientists	530	0.4	(nc)
Computer scientists	430	0.3	(nc)
Computer software, applications	40	<	49
Computer software, systems	100	0.1	48
Computer systems analysts	100	0.1	24
Network and computer systems administrators	190	0.1	31
Physical scientists	70	0.1	(nc)
Atmospheric and space scientists	70	0.1	41
Social scientists	30	<	(nc)
Market research analysts	30	<	49
Engineers	460	0.3	(nc)
Aeronautical	310	0.2	24
Electrical/electronics	40	<	(nc)
Electronics	40	<	30
Industrial	50	<	22
Mechanical	30	<	41
Other engineers	30	<	(nc)
Environmental	30	<	22

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Airports, flying fields, and services (SIC 4580) -- continued:			
Technicians	1,860	1.3	(nc)
Computer, numerical tool, and process control programmers	180	0.1	(nc)
Computer programmers	180	0.1	24
Engineering technicians	1,680	1.2	(nc)
Aerospace engineering and operations technicians	180	0.1	31
Electronical/electronics engineering technicians	340	0.2	37
All other engineering technicians	1,160	0.8	(nc)
Transportation inspectors	1,160	0.8	18
Pipelines, except natural gas (SIC 4610)			
Scientific and technical personnel	1,040	7.9	(nc)
Managers of scientific and technical personnel	100	0.8	(nc)
Engineering managers	100	0.8	11
Scientists	30	0.2	(nc)
Computer scientists	30	0.2	(nc)
Computer systems analysts	30	0.2	7
Engineers	610	4.6	(nc)
Civil	170	1.3	22
Electrical/electronics	120	0.9	(nc)
Electrical	120	0.9	20
Industrial	60	0.5	15
Mechanical	80	0.6	15
Other engineers	180	1.4	(nc)
Chemical	30	0.2	49
Environmental	60	0.5	15
Petroleum	30	0.2	21
Safety	60	0.5	22
Technicians	300	2.3	(nc)
Computer, numerical tool, and process control programmers	70	0.5	(nc)
Computer programmers	70	0.5	41
Engineering technicians	230	1.7	(nc)
Electronical/electronics engineering technicians	150	1.1	44
Industrial engineering technicians	40	0.3	30
Mechanical engineering technicians	40	0.3	32
Passenger transportation arrangements (SIC 4720)			
Scientific and technical personnel	3,620	1.6	(nc)
Managers of scientific and technical personnel	610	0.3	(nc)
Computer and information systems managers	610	0.3	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Passenger transportation arrangements (SIC 4720) -- continued:			
Scientists	1,870	0.8	(nc)
Computer scientists	1,700	0.8	(nc)
Computer software, applications	30	<	29
Computer systems analysts	1,070	0.5	19
Network and computer systems administrators	470	0.2	19
Network systems/data communications analysts	130	0.1	17
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	23
Social scientists	120	0.1	(nc)
Market research analysts	120	0.1	19
Engineers	220	0.1	(nc)
Computer	220	0.1	44
Technicians	920	0.4	(nc)
Computer, numerical tool, and process control programmers	920	0.4	(nc)
Computer programmers	920	0.4	18
Freight transportation arrangements (SIC 4730)			
Scientific and technical personnel	2,870	1.5	(nc)
Managers of scientific and technical personnel	570	0.3	(nc)
Computer and information systems managers	530	0.3	10
Engineering managers	40	<	17
Scientists	860	0.5	(nc)
Computer scientists	610	0.3	(nc)
Computer software, applications	110	0.1	47
Computer systems analysts	110	0.1	22
Network and computer systems administrators	300	0.2	13
Network systems/data communications analysts	90	0.1	20
Mathematical scientists	120	0.1	(nc)
Operations and systems researchers and analysts	120	0.1	27
Social scientists	130	0.1	(nc)
Market research analysts	130	0.1	47
Engineers	100	0.1	(nc)
Other engineers	100	0.1	(nc)
Marine	60	<	32
Safety	40	<	24
Technicians	1,340	0.7	(nc)
Computer, numerical tool, and process control programmers	1,020	0.5	(nc)
Computer programmers	1,020	0.5	11
Engineering technicians	320	0.2	(nc)
All other engineering technicians	320	0.2	(nc)
Transportation inspectors	320	0.2	34

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. transportation services (SIC 4780)			
Scientific and technical personnel	1,460	2.7	(nc)
Engineers	160	0.3	(nc)
Industrial	40	0.1	39
Other engineers	120	0.2	(nc)
Marine	120	0.2	40
Technicians	1,300	2.4	(nc)
Computer, numerical tool, and process control programmers	40	0.1	(nc)
Computer programmers	40	0.1	29
Engineering technicians	920	1.7	(nc)
All other engineering technicians	920	1.7	(nc)
Transportation inspectors	920	1.7	15
Physical and life science technicians	30	0.1	(nc)
Chemical technicians, except health	30	0.1	<
Surveying, cartographic, photogrammetric, and mapping technicians	310	0.6	(nc)
Surveyors	310	0.6	47
Telephone communications (SIC 4810)			
Scientific and technical personnel	122,720	10.1	(nc)
Managers of scientific and technical personnel	15,390	1.3	(nc)
Computer and information systems managers	7,410	0.6	7
Engineering managers	7,980	0.7	8
Scientists	53,550	4.4	(nc)
Computer scientists	47,310	3.9	(nc)
Computer software, applications	7,150	0.6	14
Computer software, systems	11,080	0.9	23
Computer systems analysts	9,990	0.8	11
Network and computer systems administrators	12,160	1.0	11
Network systems/data communications analysts	6,930	0.6	9
Mathematical scientists	1,710	0.1	(nc)
Operations and systems researchers and analysts	1,710	0.1	15
Social scientists	4,530	0.4	(nc)
Economists	410	<	14
Market research analysts	4,120	0.3	12

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Telephone communications (SIC 4810) -- continued:			
Engineers	32,400	2.7	(nc)
Civil	370	<	17
Computer	5,360	0.4	11
Electrical/electronics	22,390	1.9	(nc)
Electrical	5,710	0.5	12
Electronics	16,680	1.4	14
Industrial	950	0.1	21
Mechanical	90	<	29
Sales	3,020	0.3	12
Other engineers	220	<	(nc)
Biomedical	30	<	30
Safety	190	<	45
Technicians	21,380	1.8	(nc)
Computer, numerical tool, and process control programmers	3,350	0.3	(nc)
Computer programmers	3,350	0.3	9
Drafters	840	0.1	(nc)
Architectural and civil drafters	160	<	24
Electrical and electronics drafters	470	<	13
Mechanical drafters	210	<	18
Engineering technicians	17,190	1.4	(nc)
Civil engineering technicians	1,750	0.1	28
Electronical/electronics engineering technicians	15,260	1.3	8
Mechanical engineering technicians	140	<	21
All other engineering technicians	40	<	(nc)
Broadcast technicians	40	<	46
Telegraph and other communications (SIC 4820)			
Scientific and technical personnel	3,290	22.3	(nc)
Managers of scientific and technical personnel	580	3.9	(nc)
Computer and information systems managers	520	3.5	30
Engineering managers	60	0.4	25
Scientists	1,270	8.6	(nc)
Computer scientists	1,230	8.3	(nc)
Computer software, applications	140	1.0	22
Computer software, systems	110	0.7	16
Computer systems analysts	730	4.9	46
Network and computer systems administrators	110	0.7	44
Network systems/data communications analysts	140	1.0	29
Social scientists	40	0.3	(nc)
Market research analysts	40	0.3	28
Engineers	30	0.2	(nc)
Electrical/electronics	30	0.2	(nc)
Electronics	30	0.2	45

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Telegraph and other communications (SIC 4820) -- continued:			
Technicians	1,410	9.5	(nc)
Computer, numerical tool, and process control programmers	240	1.6	(nc)
Computer programmers	240	1.6	30
Engineering technicians	1,170	7.9	(nc)
Electronical/electronics engineering technicians	1,170	7.9	22
Radio and television broadcasting (SIC 4830)			
Scientific and technical personnel	37,330	14.4	(nc)
Managers of scientific and technical personnel	2,740	1.1	(nc)
Computer and information systems managers	970	0.4	11
Engineering managers	1,770	0.7	6
Scientists	2,430	0.9	(nc)
Computer scientists	1,550	0.6	(nc)
Computer software, applications	160	0.1	15
Computer software, systems	150	0.1	37
Computer systems analysts	180	0.1	19
Network and computer systems administrators	590	0.2	14
Network systems/data communications analysts	470	0.2	10
Mathematical scientists	80	<	(nc)
Operations and systems researchers and analysts	80	<	32
Physical scientists	450	0.2	(nc)
Atmospheric and space scientists	450	0.2	10
Social scientists	350	0.1	(nc)
Market research analysts	350	0.1	13
Engineers	1,090	0.4	(nc)
Computer	50	<	19
Electrical/electronics	830	0.3	(nc)
Electrical	300	0.1	17
Electronics	530	0.2	15
Industrial	140	0.1	34
Mechanical	70	<	35
Technicians	31,070	12.0	(nc)
Computer, numerical tool, and process control programmers	440	0.2	(nc)
Computer programmers	440	0.2	23
Drafters	40	<	(nc)
Electrical and electronics drafters	40	<	47
Engineering technicians	30,590	11.8	(nc)
Electronical/electronics engineering technicians	1,580	0.6	10
All other engineering technicians	29,010	11.2	(nc)
Audio and video equipment technicians	4,400	1.7	8
Broadcast technicians	24,610	9.5	5

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Cable and other pay TV services (SIC 4840)			
Scientific and technical personnel	13,650	6.2	(nc)
Managers of scientific and technical personnel	2,030	0.9	(nc)
Computer and information systems managers	1,140	0.5	16
Engineering managers	890	0.4	7
Scientists	5,210	2.4	(nc)
Computer scientists	4,520	2.1	(nc)
Computer and information scientists, research	50	<	35
Computer software, applications	500	0.2	17
Computer software, systems	280	0.1	12
Computer systems analysts	440	0.2	10
Network and computer systems administrators	1,810	0.8	16
Network systems/data communications analysts	1,440	0.7	20
Mathematical scientists	100	0.1	(nc)
Operations and systems researchers and analysts	100	0.1	27
Physical scientists	70	<	(nc)
Atmospheric and space scientists	70	<	14
Social scientists	520	0.2	(nc)
Market research analysts	520	0.2	17
Engineers	1,260	0.6	(nc)
Computer	290	0.1	22
Electrical/electronics	660	0.3	(nc)
Electrical	170	0.1	18
Electronics	490	0.2	18
Industrial	100	0.1	21
Mechanical	70	<	29
Sales	100	0.1	45
Other engineers	40	<	(nc)
Safety	40	<	22
Technicians	5,150	2.3	(nc)
Computer, numerical tool, and process control programmers	270	0.1	(nc)
Computer programmers	270	0.1	14
Drafters	370	0.2	(nc)
Architectural and civil drafters	40	<	28
Electrical and electronics drafters	280	0.1	17
Mechanical drafters	50	<	42
Engineering technicians	4,510	2.0	(nc)
Electronical/electronics engineering technicians	1,210	0.6	12
All other engineering technicians	3,300	1.5	(nc)
Audio and video equipment technicians	840	0.4	15
Broadcast technicians	2,460	1.1	16

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Communications services, n.e.c. (SIC 4890)			
Scientific and technical personnel	2,280	11.5	(nc)
Managers of scientific and technical personnel	430	2.2	(nc)
Computer and information systems managers	180	0.9	15
Engineering managers	250	1.3	17
Scientists	790	4.0	(nc)
Computer scientists	760	3.8	(nc)
Computer software, applications	130	0.7	20
Computer software, systems	210	1.1	26
Computer systems analysts	50	0.3	18
Network and computer systems administrators	250	1.3	20
Network systems/data communications analysts	120	0.6	24
Social scientists	30	0.2	(nc)
Market research analysts	30	0.2	31
Engineers	330	1.7	(nc)
Computer	120	0.6	21
Electrical/electronics	50	0.3	(nc)
Electrical	50	0.3	28
Industrial	80	0.4	33
Sales	80	0.4	23
Technicians	730	3.7	(nc)
Computer, numerical tool, and process control programmers	70	0.4	(nc)
Computer programmers	70	0.4	27
Drafters	60	0.3	(nc)
Electrical and electronics drafters	60	0.3	37
Engineering technicians	600	3.0	(nc)
Electronical/electronics engineering technicians	300	1.5	19
All other engineering technicians	300	1.5	(nc)
Audio and video equipment technicians	40	0.2	23
Broadcast technicians	260	1.3	24
Electric services (SIC 4910)			
Scientific and technical personnel	44,460	12.3	(nc)
Managers of scientific and technical personnel	4,110	1.1	(nc)
Computer and information systems managers	970	0.3	10
Engineering managers	3,050	0.8	6
Natural sciences managers	90	<	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electric services (SIC 4910) -- continued:			
Scientists	8,300	2.3	(nc)
Computer scientists	5,120	1.4	(nc)
Computer and information scientists, research	40	<	14
Computer software, applications	1,080	0.3	15
Computer software, systems	470	0.1	19
Computer systems analysts	1,780	0.5	10
Network and computer systems administrators	950	0.3	12
Network systems/data communications analysts	800	0.2	16
Life scientists	140	<	(nc)
Agricultural scientists	30	<	29
Foresters	110	<	15
Mathematical scientists	660	0.2	(nc)
Operations and systems researchers and analysts	660	0.2	24
Physical scientists	1,080	0.3	(nc)
Chemists	410	0.1	27
Environmental scientists and specialists, including health	610	0.2	22
Physicists	60	<	21
Social scientists	1,300	0.4	(nc)
Economists	70	<	19
Market research analysts	1,160	0.3	16
Urban and regional planners	70	<	19
Engineers	16,870	4.7	(nc)
Civil	1,290	0.4	16
Computer	60	<	34
Electrical/electronics	6,870	1.9	(nc)
Electrical	6,280	1.7	9
Electronics	590	0.2	25
Industrial	940	0.3	15
Mechanical	820	0.2	10
Sales	100	<	25
Other engineers	6,790	1.9	(nc)
Chemical	90	<	28
Environmental	360	0.1	17
Metallurgical/metallurgists	40	<	22
Mining and geological	170	0.1	25
Nuclear	5,320	1.5	13
Petroleum	350	0.1	29
Safety	460	0.1	6

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electric services (SIC 4910) -- continued:			
Technicians	15,180	4.2	(nc)
Computer, numerical tool, and process control programmers	2,190	0.6	(nc)
Computer programmers	2,190	0.6	10
Drafters	1,870	0.5	(nc)
Architectural and civil drafters	190	0.1	40
Electrical and electronics drafters	1,160	0.3	8
Mechanical drafters	520	0.1	20
Engineering technicians	6,530	1.8	(nc)
Civil engineering technicians	1,020	0.3	16
Electronical/electronics engineering technicians	4,420	1.2	8
Electro-mechanical technicians	420	0.1	28
Environmental engineering technicians	320	0.1	16
Mechanical engineering technicians	310	0.1	26
All other engineering technicians	40	<	(nc)
Audio and video equipment technicians	40	<	46
Mathematical technicians	40	<	25
Physical and life science technicians	2,600	0.7	(nc)
Chemical technicians, except health	1,020	0.3	9
Environmental science and protection technicians, including health	330	0.1	10
Forest and conservation technicians	40	<	39
Geological and petroleum technicians	80	<	27
Nuclear technicians	1,130	0.3	12
Surveying, cartographic, photogrammetric, and mapping technicians	1,950	0.5	(nc)
Cartographers and photogrammetrists	190	0.1	17
Surveying and mapping technicians	1,320	0.4	8
Surveyors	440	0.1	11
Gas production and distribution (SIC 4920)			
Scientific and technical personnel	7,450	5.8	(nc)
Managers of scientific and technical personnel	1,040	0.8	(nc)
Computer and information systems managers	420	0.3	14
Engineering managers	620	0.5	10
Scientists	1,650	1.3	(nc)
Computer scientists	970	0.8	(nc)
Computer software, applications	450	0.4	28
Computer software, systems	160	0.1	31
Network and computer systems administrators	240	0.2	18
Network systems/data communications analysts	120	0.1	26
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	41
Physical scientists	30	<	(nc)
Environmental scientists and specialists, including health	30	<	47
Social scientists	600	0.5	(nc)
Economists	30	<	25
Market research analysts	570	0.5	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Gas production and distribution (SIC 4920) -- continued:			
Engineers	2,040	1.6	(nc)
Civil	400	0.3	13
Electrical/electronics	290	0.2	(nc)
Electrical	260	0.2	19
Electronics	30	<	45
Industrial	80	0.1	21
Mechanical	290	0.2	17
Other engineers	980	0.8	(nc)
Chemical	390	0.3	28
Environmental	210	0.2	21
Metallurgical/metallurgists	30	<	25
Petroleum	250	0.2	25
Safety	100	0.1	13
Technicians	2,720	2.1	(nc)
Computer, numerical tool, and process control programmers	720	0.6	(nc)
Computer programmers	720	0.6	29
Drafters	430	0.3	(nc)
Architectural and civil drafters	180	0.1	22
Electrical and electronics drafters	180	0.1	25
Mechanical drafters	70	0.1	16
Engineering technicians	600	0.5	(nc)
Civil engineering technicians	200	0.2	14
Electronical/electronics engineering technicians	250	0.2	36
Environmental engineering technicians	100	0.1	33
Mechanical engineering technicians	50	<	45
Physical and life science technicians	430	0.3	(nc)
Environmental science and protection technicians, including health	90	0.1	25
Geological and petroleum technicians	340	0.3	22
Surveying, cartographic, photogrammetric, and mapping technicians	540	0.4	(nc)
Surveying and mapping technicians	440	0.3	20
Surveyors	100	0.1	28
Combination utility services (SIC 4930)			
Scientific and technical personnel	19,310	12.8	(nc)
Managers of scientific and technical personnel	1,740	1.2	(nc)
Computer and information systems managers	680	0.5	37
Engineering managers	1,030	0.7	10
Natural sciences managers	30	<	32

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Combination utility services (SIC 4930) -- continued:			
Scientists	3,610	2.4	(nc)
Computer scientists	2,860	1.9	(nc)
Computer software, applications	250	0.2	18
Computer systems analysts	2,150	1.4	16
Network and computer systems administrators	160	0.1	12
Network systems/data communications analysts	300	0.2	19
Life scientists	80	0.1	(nc)
Foresters	80	0.1	23
Mathematical scientists	100	0.1	(nc)
Operations and systems researchers and analysts	100	0.1	23
Physical scientists	250	0.2	(nc)
Chemists	100	0.1	32
Environmental scientists and specialists, including health	110	0.1	13
Geoscientists, except hydrologists and geographers	40	<	30
Social scientists	320	0.2	(nc)
Market research analysts	290	0.2	19
Urban and regional planners	30	<	28
Engineers	5,810	3.9	(nc)
Civil	220	0.2	18
Electrical/electronics	3,050	2.0	(nc)
Electrical	2,990	2.0	9
Electronics	60	<	14
Industrial	410	0.3	18
Mechanical	430	0.3	35
Other engineers	1,700	1.1	(nc)
Chemical	120	0.1	13
Environmental	210	0.1	10
Nuclear	970	0.6	27
Petroleum	280	0.2	18
Safety	120	0.1	11
Technicians	8,150	5.4	(nc)
Computer, numerical tool, and process control programmers	560	0.4	(nc)
Computer programmers	560	0.4	18
Drafters	1,470	1.0	(nc)
Architectural and civil drafters	70	0.1	28
Electrical and electronics drafters	1,360	0.9	13
Mechanical drafters	40	<	32
Engineering technicians	4,230	2.8	(nc)
Civil engineering technicians	270	0.2	26
Electronical/electronics engineering technicians	3,220	2.1	7
Electro-mechanical technicians	160	0.1	19
Environmental engineering technicians	340	0.2	24
Mechanical engineering technicians	240	0.2	22

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Combination utility services (SIC 4930) -- continued:			
Physical and life science technicians	1,120	0.7	(nc)
Chemical technicians, except health	410	0.3	17
Environmental science and protection technicians, including health	130	0.1	15
Nuclear technicians	580	0.4	15
Surveying, cartographic, photogrammetric, and mapping technicians	770	0.5	(nc)
Surveying and mapping technicians	670	0.4	8
Surveyors	100	0.1	21
Water supply (SIC 4940)			
Scientific and technical personnel	1,010	3.0	(nc)
Managers of scientific and technical personnel	310	0.9	(nc)
Computer and information systems managers	120	0.4	26
Engineering managers	190	0.6	11
Scientists	200	0.6	(nc)
Computer scientists	120	0.4	(nc)
Computer systems analysts	50	0.2	44
Network and computer systems administrators	70	0.2	18
Physical scientists	80	0.2	(nc)
Chemists	40	0.1	21
Environmental scientists and specialists, including health	40	0.1	35
Engineers	170	0.5	(nc)
Civil	140	0.4	14
Other engineers	30	0.1	(nc)
Environmental	30	0.1	27
Technicians	330	1.0	(nc)
Computer, numerical tool, and process control programmers	60	0.2	(nc)
Computer programmers	60	0.2	24
Drafters	60	0.2	(nc)
Architectural and civil drafters	30	0.1	32
Mechanical drafters	30	0.1	38
Engineering technicians	50	0.2	(nc)
Civil engineering technicians	50	0.2	18
Physical and life science technicians	160	0.5	(nc)
Chemical technicians, except health	110	0.3	23
Environmental science and protection technicians, including health	50	0.2	27
Sanitary services (SIC 4950)			
Scientific and technical personnel	7,530	4.3	(nc)
Managers of scientific and technical personnel	590	0.3	(nc)
Engineering managers	590	0.3	27

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Sanitary services (SIC 4950) -- continued:			
Scientists	2,270	1.3	(nc)
Computer scientists	330	0.2	(nc)
Computer systems analysts	160	0.1	16
Network and computer systems administrators	170	0.1	35
Physical scientists	1,940	1.1	(nc)
Chemists	510	0.3	27
Environmental scientists and specialists, including health	1,210	0.7	18
Geoscientists, except hydrologists and geographers	130	0.1	43
Physicists	90	0.1	34
Engineers	2,030	1.2	(nc)
Civil	480	0.3	30
Sales	270	0.2	22
Other engineers	1,280	0.7	(nc)
Environmental	1,280	0.7	16
Technicians	2,640	1.5	(nc)
Computer, numerical tool, and process control programmers	220	0.1	(nc)
Computer programmers	220	0.1	30
Engineering technicians	1,360	0.8	(nc)
Civil engineering technicians	90	0.1	33
Environmental engineering technicians	1,210	0.7	21
Mechanical engineering technicians	60	<	37
Physical and life science technicians	1,060	0.6	(nc)
Chemical technicians, except health	140	0.1	29
Environmental science and protection technicians, including health	890	0.5	19
Geological and petroleum technicians	30	<	45
Steam and air-conditioning supply (SIC 4960)			
Scientific and technical personnel	40	2.6	(nc)
Managers of scientific and technical personnel	40	2.6	(nc)
Engineering managers	40	2.6	25
Motor vehicles, parts, and supplies (SIC 5010)			
Scientific and technical personnel	5,320	1.0	(nc)
Managers of scientific and technical personnel	1,100	0.2	(nc)
Computer and information systems managers	690	0.1	10
Engineering managers	410	0.1	17
Scientists	870	0.2	(nc)
Computer scientists	670	0.1	(nc)
Computer software, systems	30	<	15
Computer systems analysts	230	<	45
Network and computer systems administrators	370	0.1	11
Network systems/data communications analysts	40	<	40

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Motor vehicles, parts, and supplies (SIC 5010) -- continued:			
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	40
Social scientists	160	<	(nc)
Market research analysts	160	<	28
Engineers	1,380	0.3	(nc)
Electrical/electronics	230	<	(nc)
Electrical	230	<	22
Industrial	500	0.1	32
Mechanical	650	0.1	16
Technicians	1,970	0.4	(nc)
Computer, numerical tool, and process control programmers	880	0.2	(nc)
Computer programmers	880	0.2	16
Engineering technicians	1,090	0.2	(nc)
Electronical/electronics engineering technicians	500	0.1	28
Electro-mechanical technicians	170	<	35
Industrial engineering technicians	50	<	35
Mechanical engineering technicians	230	<	17
All other engineering technicians	140	<	(nc)
Transportation inspectors	140	<	39
Furniture and homefurnishings (SIC 5020)			
Scientific and technical personnel	950	0.5	(nc)
Managers of scientific and technical personnel	290	0.2	(nc)
Computer and information systems managers	250	0.1	6
Engineering managers	40	<	25
Scientists	330	0.2	(nc)
Computer scientists	250	0.1	(nc)
Computer systems analysts	50	<	20
Network and computer systems administrators	200	0.1	10
Social scientists	80	0.1	(nc)
Market research analysts	80	0.1	25
Engineers	110	0.1	(nc)
Industrial	30	<	28
Sales	80	0.1	44
Technicians	220	0.1	(nc)
Computer, numerical tool, and process control programmers	180	0.1	(nc)
Computer programmers	180	0.1	13
Drafters	40	<	(nc)
Architectural and civil drafters	40	<	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Lumber and construction materials (SIC 5030)			
Scientific and technical personnel	1,940	0.7	(nc)
Managers of scientific and technical personnel	360	0.1	(nc)
Computer and information systems managers	250	0.1	7
Engineering managers	110	<	11
Scientists	350	0.1	(nc)
Computer scientists	300	0.1	(nc)
Computer systems analysts	130	<	29
Network and computer systems administrators	170	0.1	11
Social scientists	50	<	(nc)
Market research analysts	50	<	26
Engineers	290	0.1	(nc)
Civil	50	<	31
Electrical/electronics	40	<	(nc)
Electrical	40	<	43
Industrial	30	<	31
Mechanical	40	<	33
Sales	130	<	23
Technicians	940	0.3	(nc)
Computer, numerical tool, and process control programmers	170	0.1	(nc)
Computer programmers	170	0.1	11
Drafters	560	0.2	(nc)
Architectural and civil drafters	480	0.2	17
Mechanical drafters	80	<	28
Engineering technicians	210	0.1	(nc)
Electronical/electronics engineering technicians	210	0.1	37
Professional and commercial equipment (SIC 5040)			
Scientific and technical personnel	128,800	13.6	(nc)
Managers of scientific and technical personnel	11,980	1.3	(nc)
Computer and information systems managers	9,830	1.0	11
Engineering managers	2,150	0.2	10
Scientists	47,960	5.1	(nc)
Computer scientists	42,140	4.5	(nc)
Computer and information scientists, research	780	0.1	38
Computer software, applications	9,090	1.0	11
Computer software, systems	9,760	1.0	10
Computer systems analysts	13,360	1.4	9
Network and computer systems administrators	6,430	0.7	9
Network systems/data communications analysts	2,720	0.3	9

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Professional and commercial equipment (SIC 5040) -- continued:			
Mathematical scientists	1,330	0.1	(nc)
Operations and systems researchers and analysts	1,080	0.1	31
Statisticians	250	<	46
Physical scientists	110	<	(nc)
Chemists	110	<	44
Social scientists	4,380	0.5	(nc)
Market research analysts	4,380	0.5	7
Engineers	19,160	2.0	(nc)
Computer	2,290	0.2	12
Electrical/electronics	3,390	0.4	(nc)
Electrical	2,360	0.3	14
Electronics	1,030	0.1	16
Industrial	400	<	18
Mechanical	870	0.1	12
Sales	11,710	1.2	11
Other engineers	500	0.1	(nc)
Biomedical	310	<	42
Environmental	150	<	8
Safety	40	<	27
Technicians	49,700	5.3	(nc)
Computer, numerical tool, and process control programmers	33,700	3.6	(nc)
Computer programmers	33,700	3.6	6
Drafters	400	<	(nc)
Architectural and civil drafters	130	<	26
Electrical and electronics drafters	80	<	29
Mechanical drafters	190	<	23
Engineering technicians	15,550	1.7	(nc)
Electronical/electronics engineering technicians	9,790	1.0	17
Electro-mechanical technicians	4,800	0.5	18
Industrial engineering technicians	240	<	32
Mechanical engineering technicians	720	0.1	23
Physical and life science technicians	50	<	(nc)
Biological technicians	50	<	48
Metals and minerals, except petroleum (SIC 5050)			
Scientific and technical personnel	1,790	1.1	(nc)
Managers of scientific and technical personnel	390	0.2	(nc)
Computer and information systems managers	280	0.2	11
Engineering managers	110	0.1	12

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Metals and minerals, except petroleum (SIC 5050) -- continued:			
Scientists	350	0.2	(nc)
Computer scientists	260	0.2	(nc)
Computer software, systems	50	<	16
Computer systems analysts	30	<	27
Network and computer systems administrators	130	0.1	11
Network systems/data communications analysts	50	<	13
Physical scientists	30	<	(nc)
Materials scientists	30	<	28
Social scientists	60	<	(nc)
Market research analysts	60	<	35
Engineers	440	0.3	(nc)
Civil	40	<	23
Industrial	40	<	23
Mechanical	50	<	24
Sales	260	0.2	25
Other engineers	50	<	(nc)
Metallurgical/metallurgists	50	<	27
Technicians	610	0.4	(nc)
Computer, numerical tool, and process control programmers	260	0.2	(nc)
Computer programmers	260	0.2	6
Drafters	320	0.2	(nc)
Architectural and civil drafters	200	0.1	18
Mechanical drafters	120	0.1	20
Engineering technicians	30	<	(nc)
Electro-mechanical technicians	30	<	27
Electrical goods (SIC 5060)			
Scientific and technical personnel	58,480	9.8	(nc)
Managers of scientific and technical personnel	5,320	0.9	(nc)
Computer and information systems managers	2,350	0.4	8
Engineering managers	2,970	0.5	10
Scientists	6,340	1.1	(nc)
Computer scientists	5,410	0.9	(nc)
Computer software, applications	1,170	0.2	14
Computer software, systems	820	0.1	21
Computer systems analysts	610	0.1	20
Network and computer systems administrators	1,980	0.3	9
Network systems/data communications analysts	830	0.1	30
Mathematical scientists	150	<	(nc)
Operations and systems researchers and analysts	150	<	26
Social scientists	780	0.1	(nc)
Market research analysts	780	0.1	24

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electrical goods (SIC 5060) -- continued:			
Engineers	25,440	4.2	(nc)
Aeronautical	80	<	45
Computer	610	0.1	26
Electrical/electronics	17,720	3.0	(nc)
Electrical	4,230	0.7	12
Electronics	13,490	2.3	16
Industrial	790	0.1	17
Mechanical	860	0.1	16
Sales	5,380	0.9	18
Technicians	21,380	3.6	(nc)
Computer, numerical tool, and process control programmers	3,540	0.6	(nc)
Computer programmers	3,540	0.6	9
Drafters	700	0.1	(nc)
Architectural and civil drafters	200	<	17
Electrical and electronics drafters	500	0.1	26
Engineering technicians	17,140	2.9	(nc)
Electronical/electronics engineering technicians	14,890	2.5	7
Electro-mechanical technicians	1,940	0.3	13
Industrial engineering technicians	80	<	27
Mechanical engineering technicians	170	<	23
All other engineering technicians	60	<	(nc)
Audio and video equipment technicians	60	<	41
Hardware, plumbing, and heating equipment (SIC 5070)			
Scientific and technical personnel	5,410	1.7	(nc)
Managers of scientific and technical personnel	590	0.2	(nc)
Computer and information systems managers	400	0.1	8
Engineering managers	190	0.1	13
Scientists	470	0.1	(nc)
Computer scientists	400	0.1	(nc)
Computer systems analysts	80	<	18
Network and computer systems administrators	320	0.1	9
Social scientists	70	<	(nc)
Market research analysts	70	<	40
Engineers	2,310	0.7	(nc)
Electrical/electronics	240	0.1	(nc)
Electrical	130	<	14
Electronics	110	<	33
Industrial	150	0.1	43
Mechanical	1,050	0.3	24
Sales	810	0.3	15
Other engineers	60	<	(nc)
Environmental	60	<	47

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Hardware, plumbing, and heating equipment (SIC 5070) -- continued:			
Technicians	2,040	0.6	(nc)
Computer, numerical tool, and process control programmers	480	0.2	(nc)
Computer programmers	480	0.2	15
Drafters	290	0.1	(nc)
Electrical and electronics drafters	30	<	31
Mechanical drafters	260	0.1	38
Engineering technicians	1,270	0.4	(nc)
Electronical/electronics engineering technicians	760	0.2	18
Electro-mechanical technicians	380	0.1	32
Environmental engineering technicians	40	<	43
Mechanical engineering technicians	90	<	33
Machinery, equipment, and supplies (SIC 5080)			
Scientific and technical personnel	28,510	3.4	(nc)
Managers of scientific and technical personnel	2,550	0.3	(nc)
Computer and information systems managers	1,310	0.2	7
Engineering managers	1,240	0.2	11
Scientists	2,590	0.3	(nc)
Computer scientists	2,230	0.3	(nc)
Computer software, applications	530	0.1	27
Computer software, systems	290	<	30
Computer systems analysts	320	<	16
Network and computer systems administrators	970	0.1	10
Network systems/data communications analysts	120	<	16
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	47
Physical scientists	70	<	(nc)
Chemists	70	<	30
Social scientists	240	<	(nc)
Market research analysts	240	<	24
Engineers	11,540	1.4	(nc)
Aeronautical	360	<	22
Civil	40	<	41
Electrical/electronics	1,360	0.2	(nc)
Electrical	970	0.1	18
Electronics	390	0.1	23
Industrial	760	0.1	27
Mechanical	4,510	0.5	16
Sales	4,420	0.5	13
Other engineers	90	<	(nc)
Chemical	40	<	35
Safety	50	<	21

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Machinery, equipment, and supplies (SIC 5080) -- continued:			
Technicians	11,830	1.4	(nc)
Computer, numerical tool, and process control programmers	1,390	0.2	(nc)
Computer programmers	1,140	0.1	15
Numerical tool and process control programmers	250	<	42
Drafters	600	0.1	(nc)
Electrical and electronics drafters	50	<	31
Mechanical drafters	550	0.1	38
Engineering technicians	9,800	1.2	(nc)
Aerospace engineering and operations technicians	190	<	39
Electronical/electronics engineering technicians	5,380	0.6	13
Electro-mechanical technicians	3,020	0.4	14
Environmental engineering technicians	100	<	37
Industrial engineering technicians	320	<	23
Mechanical engineering technicians	790	0.1	17
Physical and life science technicians	40	<	(nc)
Geological and petroleum technicians	40	<	28
Miscellaneous durable goods (SIC 5090)			
Scientific and technical personnel	2,990	0.8	(nc)
Managers of scientific and technical personnel	630	0.2	(nc)
Computer and information systems managers	480	0.1	11
Engineering managers	150	<	11
Scientists	520	0.2	(nc)
Computer scientists	470	0.1	(nc)
Computer software, applications	70	<	42
Network and computer systems administrators	310	0.1	22
Network systems/data communications analysts	90	<	32
Physical scientists	50	<	(nc)
Chemists	50	<	30
Engineers	350	0.1	(nc)
Civil	50	<	21
Industrial	40	<	15
Mechanical	150	<	26
Sales	80	<	25
Other engineers	30	<	(nc)
Safety	30	<	8
Technicians	1,490	0.4	(nc)
Computer, numerical tool, and process control programmers	680	0.2	(nc)
Computer programmers	680	0.2	14
Drafters	50	<	(nc)
Architectural and civil drafters	50	<	21

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Miscellaneous durable goods (SIC 5090) -- continued:			
Engineering technicians	710	0.2	(nc)
Electronical/electronics engineering technicians	350	0.1	22
Electro-mechanical technicians	250	0.1	23
Environmental engineering technicians	40	<	23
Mechanical engineering technicians	70	<	12
Physical and life science technicians	50	<	(nc)
Chemical technicians, except health	50	<	42
Paper and paper products (SIC 5110)			
Scientific and technical personnel	3,760	1.4	(nc)
Managers of scientific and technical personnel	690	0.3	(nc)
Computer and information systems managers	640	0.2	14
Engineering managers	50	<	37
Scientists	1,490	0.6	(nc)
Computer scientists	1,330	0.5	(nc)
Computer software, applications	380	0.1	39
Computer software, systems	80	<	19
Computer systems analysts	170	0.1	22
Network and computer systems administrators	490	0.2	20
Network systems/data communications analysts	210	0.1	37
Life scientists	30	<	(nc)
Foresters	30	<	45
Social scientists	130	0.1	(nc)
Market research analysts	130	0.1	30
Engineers	220	0.1	(nc)
Industrial	80	<	29
Mechanical	80	<	49
Sales	60	<	28
Technicians	1,360	0.5	(nc)
Computer, numerical tool, and process control programmers	1,040	0.4	(nc)
Computer programmers	1,040	0.4	25
Engineering technicians	320	0.1	(nc)
Electronical/electronics engineering technicians	220	0.1	29
Electro-mechanical technicians	100	<	49
Drugs, proprietaries, and sundries (SIC 5120)			
Scientific and technical personnel	7,620	2.8	(nc)
Managers of scientific and technical personnel	1,500	0.6	(nc)
Computer and information systems managers	880	0.3	8
Engineering managers	130	0.1	16
Natural sciences managers	490	0.2	26

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Drugs, proprietaries, and sundries (SIC 5120) -- continued:			
Scientists	3,920	1.5	(nc)
Computer scientists	1,300	0.5	(nc)
Computer software, applications	230	0.1	50
Computer software, systems	40	<	47
Computer systems analysts	320	0.1	17
Network and computer systems administrators	570	0.2	9
Network systems/data communications analysts	140	0.1	45
Life scientists	1,220	0.5	(nc)
Biochemists and biophysicists	140	0.1	50
Medical scientists, except epidemiologists	1,080	0.4	33
Mathematical scientists	90	<	(nc)
Operations and systems researchers and analysts	30	<	44
Statisticians	60	<	37
Physical scientists	560	0.2	(nc)
Chemists	560	0.2	18
Social scientists	750	0.3	(nc)
Market research analysts	750	0.3	20
Engineers	220	0.1	(nc)
Electrical/electronics	70	<	(nc)
Electronics	70	<	39
Industrial	80	<	24
Other engineers	70	<	(nc)
Chemical	30	<	35
Safety	40	<	39
Technicians	1,980	0.7	(nc)
Computer, numerical tool, and process control programmers	1,600	0.6	(nc)
Computer programmers	1,600	0.6	13
Engineering technicians	200	0.1	(nc)
Electro-mechanical technicians	200	0.1	34
Physical and life science technicians	180	0.1	(nc)
Chemical technicians, except health	180	0.1	22
Apparel, piece goods, and notions (SIC 5130)			
Scientific and technical personnel	2,240	1.0	(nc)
Managers of scientific and technical personnel	440	0.2	(nc)
Computer and information systems managers	370	0.2	8
Engineering managers	70	<	20
Scientists	1,030	0.5	(nc)
Computer scientists	480	0.2	(nc)
Computer systems analysts	130	0.1	37
Network and computer systems administrators	310	0.1	12
Network systems/data communications analysts	40	<	34
Social scientists	550	0.3	(nc)
Market research analysts	550	0.3	31

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Apparel, piece goods, and notions (SIC 5130) -- continued:			
Engineers	140	0.1	(nc)
Industrial	60	<	22
Sales	80	<	31
Technicians	630	0.3	(nc)
Computer, numerical tool, and process control programmers	630	0.3	(nc)
Computer programmers	630	0.3	16
Groceries and related products (SIC 5140)			
Scientific and technical personnel	6,100	0.7	(nc)
Managers of scientific and technical personnel	1,560	0.2	(nc)
Computer and information systems managers	1,360	0.1	6
Engineering managers	200	<	21
Scientists	2,240	0.2	(nc)
Computer scientists	1,820	0.2	(nc)
Computer software, applications	200	<	35
Computer systems analysts	620	0.1	25
Network and computer systems administrators	900	0.1	13
Network systems/data communications analysts	100	<	23
Life scientists	60	<	(nc)
Agricultural scientists	60	<	41
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	30
Physical scientists	50	<	(nc)
Chemists	50	<	38
Social scientists	270	<	(nc)
Market research analysts	270	<	17
Engineers	330	<	(nc)
Industrial	110	<	34
Mechanical	50	<	22
Sales	170	<	31
Technicians	1,970	0.2	(nc)
Computer, numerical tool, and process control programmers	1,510	0.2	(nc)
Computer programmers	1,510	0.2	12
Engineering technicians	310	<	(nc)
Electronical/electronics engineering technicians	110	<	28
Electro-mechanical technicians	80	<	28
Industrial engineering technicians	90	<	46
Mechanical engineering technicians	30	<	39
Physical and life science technicians	150	<	(nc)
Agricultural and food science technicians	70	<	26
Chemical technicians, except health	80	<	41

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Farm-product raw materials (SIC 5150)			
Scientific and technical personnel	660	0.6	(nc)
Managers of scientific and technical personnel	220	0.2	(nc)
Computer and information systems managers	170	0.2	13
Engineering managers	50	0.1	24
Scientists	300	0.3	(nc)
Computer scientists	70	0.1	(nc)
Network and computer systems administrators	70	0.1	13
Life scientists	200	0.2	(nc)
Agricultural scientists	200	0.2	34
Social scientists	30	<	(nc)
Market research analysts	30	<	7
Technicians	140	0.1	(nc)
Computer, numerical tool, and process control programmers	140	0.1	(nc)
Computer programmers	140	0.1	11
Chemicals and allied products (SIC 5160)			
Scientific and technical personnel	4,610	2.8	(nc)
Managers of scientific and technical personnel	400	0.3	(nc)
Computer and information systems managers	260	0.2	15
Engineering managers	140	0.1	13
Scientists	1,350	0.8	(nc)
Computer scientists	260	0.2	(nc)
Computer software, applications	30	<	29
Computer systems analysts	60	<	16
Network and computer systems administrators	170	0.1	12
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	41
Physical scientists	860	0.5	(nc)
Chemists	860	0.5	16
Social scientists	190	0.1	(nc)
Market research analysts	190	0.1	38
Engineers	1,320	0.8	(nc)
Electrical/electronics	30	<	(nc)
Electrical	30	<	27
Industrial	100	0.1	28
Mechanical	110	0.1	16
Sales	570	0.4	23
Other engineers	510	0.3	(nc)
Chemical	270	0.2	16
Metallurgical/metallurgists	150	0.1	39
Petroleum	90	0.1	34

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Chemicals and allied products (SIC 5160) -- continued:			
Technicians	1,540	0.9	(nc)
Computer, numerical tool, and process control programmers	290	0.2	(nc)
Computer programmers	290	0.2	14
Engineering technicians	380	0.2	(nc)
Electronical/electronics engineering technicians	200	0.1	25
Electro-mechanical technicians	60	<	22
Environmental engineering technicians	120	0.1	31
Physical and life science technicians	870	0.5	(nc)
Biological technicians	40	<	25
Chemical technicians, except health	830	0.5	14
Petroleum and petroleum products (SIC 5170)			
Scientific and technical personnel	1,530	1.0	(nc)
Managers of scientific and technical personnel	280	0.2	(nc)
Computer and information systems managers	200	0.1	16
Engineering managers	80	0.1	25
Scientists	460	0.3	(nc)
Computer scientists	310	0.2	(nc)
Computer software, applications	90	0.1	50
Computer systems analysts	70	0.1	18
Network and computer systems administrators	150	0.1	18
Physical scientists	120	0.1	(nc)
Chemists	80	0.1	22
Environmental scientists and specialists, including health	40	<	33
Social scientists	30	<	(nc)
Market research analysts	30	<	38
Engineers	270	0.2	(nc)
Mechanical	80	0.1	23
Sales	30	<	32
Other engineers	160	0.1	(nc)
Chemical	60	<	32
Environmental	40	<	41
Petroleum	60	<	29
Technicians	520	0.3	(nc)
Computer, numerical tool, and process control programmers	160	0.1	(nc)
Computer programmers	160	0.1	23
Engineering technicians	170	0.1	(nc)
Electronical/electronics engineering technicians	90	0.1	23
Electro-mechanical technicians	80	0.1	29
Physical and life science technicians	190	0.1	(nc)
Chemical technicians, except health	50	<	39
Geological and petroleum technicians	140	0.1	33

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Beer, wine, and distilled beverages (SIC 5180)			
Scientific and technical personnel	710	0.4	(nc)
Managers of scientific and technical personnel	320	0.2	(nc)
Computer and information systems managers	320	0.2	9
Scientists	260	0.2	(nc)
Computer scientists	180	0.1	(nc)
Computer systems analysts	40	<	29
Network and computer systems administrators	140	0.1	11
Social scientists	80	0.1	(nc)
Market research analysts	80	0.1	18
Technicians	130	0.1	(nc)
Computer, numerical tool, and process control programmers	130	0.1	(nc)
Computer programmers	130	0.1	12
Misc. nondurable goods (SIC 5190)			
Scientific and technical personnel	8,050	1.5	(nc)
Managers of scientific and technical personnel	1,250	0.2	(nc)
Computer and information systems managers	1,170	0.2	7
Engineering managers	80	<	17
Scientists	3,670	0.7	(nc)
Computer scientists	1,700	0.3	(nc)
Computer software, applications	420	0.1	44
Computer software, systems	110	<	48
Computer systems analysts	380	0.1	17
Network and computer systems administrators	630	0.1	8
Network systems/data communications analysts	160	<	23
Life scientists	1,390	0.3	(nc)
Agricultural scientists	1,390	0.3	15
Mathematical scientists	40	<	(nc)
Operations and systems researchers and analysts	40	<	42
Physical scientists	120	<	(nc)
Chemists	70	<	27
Environmental scientists and specialists, including health	50	<	46
Social scientists	420	0.1	(nc)
Market research analysts	420	0.1	23
Engineers	140	<	(nc)
Computer	90	<	28
Industrial	50	<	33

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. nondurable goods (SIC 5190) -- continued:			
Technicians	2,990	0.6	(nc)
Computer, numerical tool, and process control programmers	1,760	0.3	(nc)
Computer programmers	1,760	0.3	30
Engineering technicians	240	0.1	(nc)
Electronical/electronics engineering technicians	200	<	31
Environmental engineering technicians	40	<	39
Physical and life science technicians	990	0.2	(nc)
Agricultural and food science technicians	940	0.2	23
Chemical technicians, except health	50	<	29
Lumber and other building materials (SIC 5210)			
Scientific and technical personnel	3,290	0.5	(nc)
Managers of scientific and technical personnel	690	0.1	(nc)
Computer and information systems managers	570	0.1	22
Engineering managers	120	<	23
Scientists	1,370	0.2	(nc)
Computer scientists	1,370	0.2	(nc)
Network and computer systems administrators	1,120	0.2	38
Network systems/data communications analysts	250	<	42
Engineers	340	0.1	(nc)
Industrial	90	<	38
Sales	250	<	47
Technicians	890	0.1	(nc)
Computer, numerical tool, and process control programmers	180	<	(nc)
Computer programmers	180	<	18
Drafters	710	0.1	(nc)
Architectural and civil drafters	710	0.1	12
Hardware stores (SIC 5250)			
Scientific and technical personnel	70	<	(nc)
Managers of scientific and technical personnel	40	<	(nc)
Computer and information systems managers	40	<	15
Scientists	30	<	(nc)
Computer scientists	30	<	(nc)
Network and computer systems administrators	30	<	22
Retail nurseries and garden stores (SIC 5260)			
Scientific and technical personnel	30	<	(nc)
Technicians	30	<	(nc)
Drafters	30	<	(nc)
Architectural and civil drafters	30	<	17

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Department stores (SIC 5310)			
Scientific and technical personnel	4,790	0.2	(nc)
Managers of scientific and technical personnel	1,280	<	(nc)
Computer and information systems managers	1,160	<	23
Engineering managers	120	<	19
Scientists	2,290	0.1	(nc)
Computer scientists	1,980	0.1	(nc)
Computer software, systems	160	<	40
Computer systems analysts	1,490	0.1	40
Network and computer systems administrators	190	<	18
Network systems/data communications analysts	140	<	30
Social scientists	310	<	(nc)
Market research analysts	310	<	31
Engineers	270	<	(nc)
Electrical/electronics	30	<	(nc)
Electrical	30	<	49
Industrial	240	<	35
Technicians	950	<	(nc)
Computer, numerical tool, and process control programmers	580	<	(nc)
Computer programmers	580	<	17
Drafters	60	<	(nc)
Architectural and civil drafters	60	<	26
Engineering technicians	310	<	(nc)
Electronical/electronics engineering technicians	80	<	26
Mechanical engineering technicians	230	<	42
Variety stores (SIC 5330)			
Scientific and technical personnel	130	0.1	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Computer and information systems managers	30	<	15
Technicians	100	0.1	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	22
Misc. general merchandise stores (SIC 5390)			
Scientific and technical personnel	60	<	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Computer and information systems managers	30	<	27
Technicians	30	<	(nc)
Computer, numerical tool, and process control programmers	30	<	(nc)
Computer programmers	30	<	34

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Grocery stores (SIC 5410)			
Scientific and technical personnel	4,420	0.1	(nc)
Managers of scientific and technical personnel	1,290	<	(nc)
Computer and information systems managers	1,170	<	23
Engineering managers	120	<	15
Scientists	2,080	0.1	(nc)
Computer scientists	1,870	0.1	(nc)
Computer software, applications	200	<	38
Computer software, systems	110	<	48
Computer systems analysts	1,140	<	21
Network and computer systems administrators	420	<	17
Social scientists	210	<	(nc)
Market research analysts	210	<	20
Engineers	100	<	(nc)
Industrial	70	<	23
Other engineers	30	<	(nc)
Safety	30	<	28
Technicians	950	<	(nc)
Computer, numerical tool, and process control programmers	810	<	(nc)
Computer programmers	810	<	15
Drafters	70	<	(nc)
Architectural and civil drafters	70	<	32
Engineering technicians	70	<	(nc)
All other engineering technicians	70	<	(nc)
Transportation inspectors	70	<	49
Miscellaneous food stores (SIC 5490)			
Scientific and technical personnel	100	0.1	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Computer and information systems managers	30	<	18
Technicians	70	0.1	(nc)
Computer, numerical tool, and process control programmers	70	0.1	(nc)
Computer programmers	70	0.1	28
New and used car dealers (SIC 5510)			
Scientific and technical personnel	2,430	0.2	(nc)
Managers of scientific and technical personnel	600	0.1	(nc)
Computer and information systems managers	600	0.1	15

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
New and used car dealers (SIC 5510) -- continued:			
Scientists	370	<	(nc)
Computer scientists	370	<	(nc)
Network and computer systems administrators	370	<	11
Engineers	1,230	0.1	(nc)
Sales	1,230	0.1	32
Technicians	230	<	(nc)
Computer, numerical tool, and process control programmers	160	<	(nc)
Computer programmers	160	<	23
Engineering technicians	70	<	(nc)
All other engineering technicians	70	<	(nc)
Transportation inspectors	70	<	35
Auto and home supply stores (SIC 5530)			
Scientific and technical personnel	410	0.1	(nc)
Managers of scientific and technical personnel	160	<	(nc)
Computer and information systems managers	130	<	25
Engineering managers	30	<	30
Scientists	120	<	(nc)
Computer scientists	120	<	(nc)
Network and computer systems administrators	120	<	9
Technicians	130	<	(nc)
Computer, numerical tool, and process control programmers	130	<	(nc)
Computer programmers	130	<	32
Gasoline service stations (SIC 5540)			
Scientific and technical personnel	360	0.1	(nc)
Managers of scientific and technical personnel	150	<	(nc)
Computer and information systems managers	150	<	16
Scientists	140	<	(nc)
Computer scientists	70	<	(nc)
Network and computer systems administrators	40	<	20
Network systems/data communications analysts	30	<	16
Social scientists	70	<	(nc)
Market research analysts	70	<	46
Technicians	70	<	(nc)
Computer, numerical tool, and process control programmers	70	<	(nc)
Computer programmers	70	<	29

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Boat dealers (SIC 5550)			
Scientific and technical personnel	30	0.1	(nc)
Managers of scientific and technical personnel	30	0.1	(nc)
Computer and information systems managers	30	0.1	28
Automotive dealers, n.e.c. (SIC 5590)			
Scientific and technical personnel	40	0.3	(nc)
Technicians	40	0.3	(nc)
Engineering technicians	40	0.3	(nc)
Electronical/electronics engineering technicians	40	0.3	35
Men's and boys' clothing stores (SIC 5610)			
Scientific and technical personnel	100	0.1	(nc)
Technicians	100	0.1	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	42
Women's clothing stores (SIC 5620)			
Scientific and technical personnel	390	0.1	(nc)
Managers of scientific and technical personnel	80	<	(nc)
Computer and information systems managers	80	<	18
Scientists	170	0.1	(nc)
Computer scientists	90	<	(nc)
Network and computer systems administrators	90	<	23
Social scientists	80	<	(nc)
Market research analysts	80	<	22
Technicians	140	0.1	(nc)
Computer, numerical tool, and process control programmers	140	0.1	(nc)
Computer programmers	140	0.1	42
Women's accessory and specialty stores (SIC 5630)			
Scientific and technical personnel	40	0.1	(nc)
Technicians	40	0.1	(nc)
Computer, numerical tool, and process control programmers	40	0.1	(nc)
Computer programmers	40	0.1	27

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Family clothing stores (SIC 5650)			
Scientific and technical personnel	880	0.2	(nc)
Managers of scientific and technical personnel	270	0.1	(nc)
Computer and information systems managers	220	0.1	20
Engineering managers	50	<	28
Scientists	230	0.1	(nc)
Computer scientists	170	<	(nc)
Network and computer systems administrators	170	<	14
Social scientists	60	<	(nc)
Market research analysts	60	<	40
Technicians	380	0.1	(nc)
Computer, numerical tool, and process control programmers	380	0.1	(nc)
Computer programmers	380	0.1	19
Shoe stores (SIC 5660)			
Scientific and technical personnel	950	0.5	(nc)
Managers of scientific and technical personnel	280	0.2	(nc)
Computer and information systems managers	240	0.1	26
Engineering managers	40	<	34
Scientists	50	<	(nc)
Computer scientists	50	<	(nc)
Network and computer systems administrators	50	<	43
Technicians	620	0.3	(nc)
Computer, numerical tool, and process control programmers	490	0.3	(nc)
Computer programmers	490	0.3	25
Drafters	130	0.1	(nc)
Architectural and civil drafters	130	0.1	21
Furniture and homefurnishings stores (SIC 5710)			
Scientific and technical personnel	950	0.2	(nc)
Managers of scientific and technical personnel	300	0.1	(nc)
Computer and information systems managers	300	0.1	8
Scientists	200	<	(nc)
Computer scientists	200	<	(nc)
Network and computer systems administrators	200	<	16
Technicians	450	0.1	(nc)
Computer, numerical tool, and process control programmers	150	<	(nc)
Computer programmers	150	<	19
Drafters	300	0.1	(nc)
Architectural and civil drafters	300	0.1	43

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Radio, television, and computer stores (SIC 5730)			
Scientific and technical personnel	15,980	3.3	(nc)
Managers of scientific and technical personnel	1,430	0.3	(nc)
Computer and information systems managers	1,190	0.2	9
Engineering managers	240	0.1	28
Scientists	8,330	1.7	(nc)
Computer scientists	8,090	1.7	(nc)
Computer software, applications	1,020	0.2	17
Computer software, systems	3,150	0.7	18
Computer systems analysts	900	0.2	19
Network and computer systems administrators	2,420	0.5	17
Network systems/data communications analysts	600	0.1	37
Social scientists	240	0.1	(nc)
Market research analysts	240	0.1	32
Engineers	680	0.1	(nc)
Electrical/electronics	200	<	(nc)
Electrical	100	<	30
Electronics	100	<	33
Sales	480	0.1	18
Technicians	5,540	1.1	(nc)
Computer, numerical tool, and process control programmers	5,340	1.1	(nc)
Computer programmers	5,340	1.1	14
Engineering technicians	200	<	(nc)
Electronical/electronics engineering technicians	150	<	20
All other engineering technicians	50	<	(nc)
Audio and video equipment technicians	50	<	40
Eating and drinking places (SIC 5810)			
Scientific and technical personnel	1,000	<	(nc)
Managers of scientific and technical personnel	100	<	(nc)
Engineering managers	100	<	37
Scientists	900	<	(nc)
Computer scientists	840	<	(nc)
Computer systems analysts	200	<	47
Network and computer systems administrators	640	<	32
Social scientists	60	<	(nc)
Market research analysts	60	<	48

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 40-59 (selected trade and regulated industries), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Drug stores and proprietary stores (SIC 5910)			
Scientific and technical personnel	650	0.1	(nc)
Managers of scientific and technical personnel	170	<	(nc)
Computer and information systems managers	170	<	20
Scientists	310	0.1	(nc)
Computer scientists	250	<	(nc)
Computer software, applications	120	<	44
Network and computer systems administrators	130	<	25
Social scientists	60	<	(nc)
Market research analysts	60	<	33
Technicians	170	<	(nc)
Computer, numerical tool, and process control programmers	170	<	(nc)
Computer programmers	170	<	24
Miscellaneous shopping goods stores (SIC 5940)			
Scientific and technical personnel	4,470	0.4	(nc)
Managers of scientific and technical personnel	870	0.1	(nc)
Computer and information systems managers	830	0.1	15
Engineering managers	40	<	22
Scientists	2,560	0.2	(nc)
Computer scientists	1,940	0.2	(nc)
Computer software, applications	470	<	33
Computer software, systems	150	<	46
Computer systems analysts	350	<	32
Network and computer systems administrators	460	<	18
Network systems/data communications analysts	510	0.1	23
Mathematical scientists	30	<	(nc)
Operations and systems researchers and analysts	30	<	42
Social scientists	590	0.1	(nc)
Market research analysts	590	0.1	29
Engineers	50	<	(nc)
Industrial	50	<	33
Technicians	990	0.1	(nc)
Computer, numerical tool, and process control programmers	990	0.1	(nc)
Computer programmers	990	0.1	21

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Nonstore retailers (SIC 5960)			
Scientific and technical personnel	8,420	2.0	(nc)
Managers of scientific and technical personnel	1,450	0.4	(nc)
Computer and information systems managers	1,300	0.3	13
Engineering managers	150	<	19
Scientists	4,000	1.0	(nc)
Computer scientists	3,010	0.7	(nc)
Computer software, applications	280	0.1	22
Computer systems analysts	1,080	0.3	21
Network and computer systems administrators	1,070	0.3	12
Network systems/data communications analysts	580	0.1	19
Mathematical scientists	70	<	(nc)
Operations and systems researchers and analysts	70	<	17
Social scientists	920	0.2	(nc)
Market research analysts	890	0.2	15
Survey researchers	30	<	45
Engineers	260	0.1	(nc)
Electrical/electronics	30	<	(nc)
Electrical	30	<	33
Industrial	200	0.1	23
Mechanical	30	<	26
Technicians	2,710	0.6	(nc)
Computer, numerical tool, and process control programmers	2,500	0.6	(nc)
Computer programmers	2,500	0.6	16
Drafters	60	<	(nc)
Architectural and civil drafters	60	<	37
Engineering technicians	150	<	(nc)
Electronical/electronics engineering technicians	110	<	29
All other engineering technicians	40	<	(nc)
Audio and video equipment technicians	40	<	38
Fuel dealers (SIC 5980)			
Scientific and technical personnel	100	0.1	(nc)
Managers of scientific and technical personnel	40	<	(nc)
Computer and information systems managers	40	<	22
Engineers	30	<	(nc)
Sales	30	<	43
Technicians	30	<	(nc)
Computer, numerical tool, and process control programmers	30	<	(nc)
Computer programmers	30	<	30

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 40-59 (selected trade and regulated industries),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Retail stores, n.e.c. (SIC 5990)			
Scientific and technical personnel	700	0.1	(nc)
Managers of scientific and technical personnel	190	<	(nc)
Computer and information systems managers	190	<	15
Scientists	230	<	(nc)
Computer scientists	230	<	(nc)
Computer systems analysts	50	<	42
Network and computer systems administrators	180	<	21
Engineers	50	<	(nc)
Electrical/electronics	50	<	(nc)
Electronics	50	<	49
Technicians	230	<	(nc)
Computer, numerical tool, and process control programmers	190	<	(nc)
Computer programmers	190	<	17
Engineering technicians	40	<	(nc)
Electronical/electronics engineering technicians	40	<	29

[1] SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2] Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY: nc = Not computed
< = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Central reserve depositories (SIC 6010)			
Scientific and technical personnel	2,570	12.4	(nc)
Managers of scientific and technical personnel	200	1.0	(nc)
Computer and information systems managers	200	1.0	18
Scientists	2,140	10.3	(nc)
Computer scientists	1,610	7.8	(nc)
Computer software, applications	180	0.9	12
Computer software, systems	80	0.4	30
Computer systems analysts	860	4.1	24
Network and computer systems administrators	300	1.5	19
Network systems/data communications analysts	190	0.9	28
Mathematical scientists	300	1.5	(nc)
Operations and systems researchers and analysts	300	1.5	40
Social scientists	230	1.1	(nc)
Economists	160	0.8	23
Market research analysts	70	0.3	29
Technicians	230	1.1	(nc)
Computer, numerical tool, and process control programmers	230	1.1	(nc)
Computer programmers	230	1.1	25
Commercial banks (SIC 6020)			
Scientific and technical personnel	65,580	4.6	(nc)
Managers of scientific and technical personnel	8,130	0.6	(nc)
Computer and information systems managers	7,930	0.6	7
Engineering managers	200	<	6
Scientists	42,330	3.0	(nc)
Computer scientists	37,130	2.6	(nc)
Computer software, applications	3,690	0.3	14
Computer software, systems	9,760	0.7	17
Computer systems analysts	12,910	0.9	7
Network and computer systems administrators	5,580	0.4	9
Network systems/data communications analysts	5,190	0.4	14
Mathematical scientists	2,540	0.2	(nc)
Operations and systems researchers and analysts	2,420	0.2	15
Statisticians	120	<	34
Social scientists	2,660	0.2	(nc)
Economists	130	<	25
Market research analysts	2,430	0.2	14
Urban and regional planners	100	<	36

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 60-67 (finance, insurance, and real estate), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Commercial banks (SIC 6020) -- continued:			
Engineers	240	<	(nc)
Electrical/electronics	240	<	(nc)
Electronics	240	<	24
Technicians	14,880	1.1	(nc)
Computer, numerical tool, and process control programmers	14,880	1.1	(nc)
Computer programmers	14,880	1.1	12
Savings institutions (SIC 6030)			
Scientific and technical personnel	4,530	1.8	(nc)
Managers of scientific and technical personnel	1,150	0.5	(nc)
Computer and information systems managers	1,150	0.5	7
Scientists	2,620	1.1	(nc)
Computer scientists	2,620	1.1	(nc)
Computer software, applications	220	0.1	14
Computer software, systems	190	0.1	32
Computer systems analysts	1,000	0.4	13
Network and computer systems administrators	850	0.3	7
Network systems/data communications analysts	360	0.1	15
Technicians	760	0.3	(nc)
Computer, numerical tool, and process control programmers	760	0.3	(nc)
Computer programmers	760	0.3	12
Credit unions (SIC 6060)			
Scientific and technical personnel	3,900	2.0	(nc)
Managers of scientific and technical personnel	1,390	0.7	(nc)
Computer and information systems managers	1,390	0.7	6
Scientists	2,170	1.1	(nc)
Computer scientists	1,680	0.9	(nc)
Computer software, applications	110	0.1	19
Computer software, systems	70	<	13
Computer systems analysts	540	0.3	7
Network and computer systems administrators	670	0.3	6
Network systems/data communications analysts	290	0.2	14
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	34
Social scientists	440	0.2	(nc)
Market research analysts	440	0.2	11
Technicians	340	0.2	(nc)
Computer, numerical tool, and process control programmers	340	0.2	(nc)
Computer programmers	340	0.2	20

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Foreign banks and branches and agencies (SIC 6080)			
Scientific and technical personnel	660	2.6	(nc)
Managers of scientific and technical personnel	280	1.1	(nc)
Computer and information systems managers	280	1.1	23
Scientists	240	1.0	(nc)
Computer scientists	240	1.0	(nc)
Computer systems analysts	50	0.2	21
Network and computer systems administrators	190	0.8	21
Technicians	140	0.6	(nc)
Computer, numerical tool, and process control programmers	140	0.6	(nc)
Computer programmers	140	0.6	38
Functions closely related to banking (SIC 6090)			
Scientific and technical personnel	2,920	2.8	(nc)
Managers of scientific and technical personnel	550	0.5	(nc)
Computer and information systems managers	550	0.5	18
Scientists	2,040	1.9	(nc)
Computer scientists	1,410	1.3	(nc)
Computer software, applications	350	0.3	24
Computer software, systems	200	0.2	18
Computer systems analysts	460	0.4	19
Network and computer systems administrators	230	0.2	18
Network systems/data communications analysts	170	0.2	20
Social scientists	630	0.6	(nc)
Market research analysts	630	0.6	41
Technicians	330	0.3	(nc)
Computer, numerical tool, and process control programmers	330	0.3	(nc)
Computer programmers	330	0.3	14
Federal and federally sponsored credit (SIC 6110)			
Scientific and technical personnel	1,080	5.4	(nc)
Managers of scientific and technical personnel	120	0.6	(nc)
Computer and information systems managers	120	0.6	24
Scientists	790	4.0	(nc)
Computer scientists	790	4.0	(nc)
Computer software, applications	320	1.6	47
Computer systems analysts	280	1.4	29
Network and computer systems administrators	140	0.7	20
Network systems/data communications analysts	50	0.3	43

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Federal and federally sponsored credit (SIC 6110) -- continued:			
Technicians	170	0.9	(nc)
Computer, numerical tool, and process control programmers	170	0.9	(nc)
Computer programmers	170	0.9	42
Personal credit institutions (SIC 6140)			
Scientific and technical personnel	7,200	3.4	(nc)
Managers of scientific and technical personnel	1,120	0.5	(nc)
Computer and information systems managers	1,120	0.5	25
Scientists	5,260	2.5	(nc)
Computer scientists	3,670	1.7	(nc)
Computer software, applications	800	0.4	41
Computer software, systems	280	0.1	22
Computer systems analysts	1,210	0.6	17
Network and computer systems administrators	940	0.5	23
Network systems/data communications analysts	440	0.2	28
Mathematical scientists	370	0.2	(nc)
Operations and systems researchers and analysts	70	<	19
Statisticians	300	0.1	32
Social scientists	1,220	0.6	(nc)
Market research analysts	1,220	0.6	35
Technicians	820	0.4	(nc)
Computer, numerical tool, and process control programmers	820	0.4	(nc)
Computer programmers	820	0.4	14
Business credit institutions (SIC 6150)			
Scientific and technical personnel	7,640	5.4	(nc)
Managers of scientific and technical personnel	1,010	0.7	(nc)
Computer and information systems managers	1,010	0.7	13
Scientists	5,220	3.7	(nc)
Computer scientists	4,760	3.4	(nc)
Computer software, applications	710	0.5	14
Computer software, systems	400	0.3	26
Computer systems analysts	2,250	1.6	27
Network and computer systems administrators	950	0.7	15
Network systems/data communications analysts	450	0.3	13
Mathematical scientists	60	<	(nc)
Operations and systems researchers and analysts	60	<	30
Social scientists	400	0.3	(nc)
Market research analysts	400	0.3	28

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Business credit institutions (SIC 6150) -- continued:			
Engineers	110	0.1	(nc)
Computer	110	0.1	34
Technicians	1,300	0.9	(nc)
Computer, numerical tool, and process control programmers	1,300	0.9	(nc)
Computer programmers	1,300	0.9	23
Mortgage bankers and brokers (SIC 6160)			
Scientific and technical personnel	6,140	2.0	(nc)
Managers of scientific and technical personnel	1,210	0.4	(nc)
Computer and information systems managers	1,210	0.4	9
Scientists	3,760	1.2	(nc)
Computer scientists	3,120	1.0	(nc)
Computer software, applications	460	0.2	17
Computer software, systems	510	0.2	22
Computer systems analysts	810	0.3	13
Network and computer systems administrators	780	0.3	16
Network systems/data communications analysts	560	0.2	12
Mathematical scientists	270	0.1	(nc)
Operations and systems researchers and analysts	270	0.1	27
Social scientists	370	0.1	(nc)
Market research analysts	370	0.1	20
Technicians	1,170	0.4	(nc)
Computer, numerical tool, and process control programmers	1,170	0.4	(nc)
Computer programmers	1,170	0.4	17
Security brokers and dealers (SIC 6210)			
Scientific and technical personnel	29,720	5.2	(nc)
Managers of scientific and technical personnel	3,990	0.7	(nc)
Computer and information systems managers	3,990	0.7	13
Scientists	16,750	2.9	(nc)
Computer scientists	13,420	2.4	(nc)
Computer software, applications	4,040	0.7	24
Computer software, systems	2,000	0.4	16
Computer systems analysts	3,710	0.7	16
Network and computer systems administrators	2,190	0.4	14
Network systems/data communications analysts	1,480	0.3	12
Mathematical scientists	580	0.1	(nc)
Actuaries	50	<	42
Operations and systems researchers and analysts	490	0.1	28
Statisticians	40	<	26

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Security brokers and dealers (SIC 6210) -- continued:			
Social scientists	2,750	0.5	(nc)
Economists	250	<	24
Market research analysts	2,500	0.4	15
Engineers	90	<	(nc)
Electrical/electronics	90	<	(nc)
Electronics	90	<	33
Technicians	8,890	1.6	(nc)
Computer, numerical tool, and process control programmers	8,890	1.6	(nc)
Computer programmers	8,890	1.6	12
Commodity contracts, brokers, and dealers (SIC 6220)			
Scientific and technical personnel	320	1.9	(nc)
Managers of scientific and technical personnel	120	0.7	(nc)
Computer and information systems managers	120	0.7	43
Scientists	100	0.6	(nc)
Computer scientists	60	0.4	(nc)
Network and computer systems administrators	30	0.2	10
Network systems/data communications analysts	30	0.2	29
Social scientists	40	0.2	(nc)
Market research analysts	40	0.2	29
Technicians	100	0.6	(nc)
Computer, numerical tool, and process control programmers	100	0.6	(nc)
Computer programmers	100	0.6	35
Security and commodity exchanges (SIC 6230)			
Scientific and technical personnel	220	2.4	(nc)
Scientists	220	2.4	(nc)
Computer scientists	220	2.4	(nc)
Computer software, applications	130	1.4	45
Computer systems analysts	90	1.0	42
Security and commodity services (SIC 6280)			
Scientific and technical personnel	10,600	6.0	(nc)
Managers of scientific and technical personnel	1,720	1.0	(nc)
Computer and information systems managers	1,720	1.0	11

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Security and commodity services (SIC 6280) -- continued:			
Scientists	7,300	4.1	(nc)
Computer scientists	5,300	3.0	(nc)
Computer software, applications	1,310	0.7	18
Computer software, systems	630	0.4	21
Computer systems analysts	1,640	0.9	10
Network and computer systems administrators	1,070	0.6	11
Network systems/data communications analysts	650	0.4	18
Mathematical scientists	770	0.4	(nc)
Actuaries	110	0.1	15
Operations and systems researchers and analysts	540	0.3	26
Statisticians	120	0.1	7
Social scientists	1,230	0.7	(nc)
Economists	130	0.1	23
Market research analysts	1,100	0.6	25
Technicians	1,580	0.9	(nc)
Computer, numerical tool, and process control programmers	1,580	0.9	(nc)
Computer programmers	1,580	0.9	17
Life insurance (SIC 6310)			
Scientific and technical personnel	38,320	10.7	(nc)
Managers of scientific and technical personnel	4,890	1.4	(nc)
Computer and information systems managers	4,890	1.4	8
Scientists	25,230	7.0	(nc)
Computer scientists	17,820	5.0	(nc)
Computer software, applications	3,310	0.9	20
Computer software, systems	480	0.1	30
Computer systems analysts	10,500	2.9	9
Network and computer systems administrators	2,190	0.6	11
Network systems/data communications analysts	1,340	0.4	23
Life scientists	30	<	(nc)
Medical scientists, except epidemiologists	30	<	40
Mathematical scientists	4,970	1.4	(nc)
Actuaries	3,360	0.9	7
Mathematicians	40	<	25
Operations and systems researchers and analysts	1,390	0.4	9
Statisticians	180	0.1	27
Social scientists	2,410	0.7	(nc)
Market research analysts	2,410	0.7	13
Engineers	480	0.1	(nc)
Computer	90	<	41
Industrial	320	0.1	35
Mechanical	40	<	26
Other engineers	30	<	(nc)
Safety	30	<	29

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Life insurance (SIC 6310) -- continued:			
Technicians	7,720	2.2	(nc)
Computer, numerical tool, and process control programmers	7,370	2.1	(nc)
Computer programmers	7,370	2.1	15
Engineering technicians	130	<	(nc)
Industrial engineering technicians	100	<	44
All other engineering technicians	30	<	(nc)
Audio and video equipment technicians	30	<	25
Mathematical technicians	220	0.1	40
Medical service and health insurance (SIC 6320)			
Scientific and technical personnel	32,360	8.6	(nc)
Managers of scientific and technical personnel	3,420	0.9	(nc)
Computer and information systems managers	3,230	0.9	6
Engineering managers	140	<	38
Natural sciences managers	50	<	17
Scientists	22,450	6.0	(nc)
Computer scientists	18,220	4.8	(nc)
Computer software, applications	2,890	0.8	11
Computer software, systems	850	0.2	29
Computer systems analysts	10,240	2.7	10
Network and computer systems administrators	2,760	0.7	8
Network systems/data communications analysts	1,480	0.4	12
Life scientists	40	<	(nc)
Epidemiologists	40	<	30
Mathematical scientists	2,660	0.7	(nc)
Actuaries	1,390	0.4	10
Operations and systems researchers and analysts	1,020	0.3	12
Statisticians	250	0.1	13
Social scientists	1,530	0.4	(nc)
Market research analysts	1,530	0.4	11
Engineers	60	<	(nc)
Other engineers	60	<	(nc)
Safety	60	<	27
Technicians	6,430	1.7	(nc)
Computer, numerical tool, and process control programmers	6,430	1.7	(nc)
Computer programmers	6,430	1.7	9
Fire, marine, and casualty insurance (SIC 6330)			
Scientific and technical personnel	28,780	5.3	(nc)
Managers of scientific and technical personnel	2,570	0.5	(nc)
Computer and information systems managers	2,570	0.5	8

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 60-67 (finance, insurance, and real estate), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Fire, marine, and casualty insurance (SIC 6330) -- continued:			
Scientists	17,710	3.3	(nc)
Computer scientists	13,320	2.4	(nc)
Computer and information scientists, research	30	<	45
Computer software, applications	2,240	0.4	26
Computer software, systems	220	<	16
Computer systems analysts	7,080	1.3	15
Network and computer systems administrators	2,910	0.5	11
Network systems/data communications analysts	840	0.2	21
Mathematical scientists	2,940	0.5	(nc)
Actuaries	2,100	0.4	15
Operations and systems researchers and analysts	510	0.1	19
Statisticians	330	0.1	18
Social scientists	1,450	0.3	(nc)
Economists	160	<	19
Market research analysts	1,290	0.2	14
Engineers	1,270	0.2	(nc)
Mechanical	40	<	39
Other engineers	1,230	0.2	(nc)
Safety	1,230	0.2	23
Technicians	7,230	1.3	(nc)
Computer, numerical tool, and process control programmers	7,120	1.3	(nc)
Computer programmers	7,120	1.3	14
Engineering technicians	30	<	(nc)
All other engineering technicians	30	<	(nc)
Audio and video equipment technicians	30	<	31
Mathematical technicians	80	<	35
Surety insurance (SIC 6350)			
Scientific and technical personnel	1,550	6.9	(nc)
Managers of scientific and technical personnel	210	0.9	(nc)
Computer and information systems managers	210	0.9	12
Scientists	920	4.1	(nc)
Computer scientists	700	3.1	(nc)
Computer software, applications	30	0.1	29
Computer systems analysts	320	1.4	15
Network and computer systems administrators	240	1.1	15
Network systems/data communications analysts	110	0.5	36
Mathematical scientists	100	0.4	(nc)
Actuaries	50	0.2	27
Operations and systems researchers and analysts	50	0.2	11
Social scientists	120	0.5	(nc)
Market research analysts	120	0.5	7

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Surety insurance (SIC 6350) -- continued:			
Technicians	420	1.9	(nc)
Computer, numerical tool, and process control programmers	420	1.9	(nc)
Computer programmers	420	1.9	14
Title insurance (SIC 6360)			
Scientific and technical personnel	1,410	1.8	(nc)
Managers of scientific and technical personnel	370	0.5	(nc)
Computer and information systems managers	370	0.5	14
Scientists	690	0.9	(nc)
Computer scientists	530	0.7	(nc)
Computer systems analysts	370	0.5	27
Network and computer systems administrators	160	0.2	10
Social scientists	160	0.2	(nc)
Market research analysts	160	0.2	20
Technicians	350	0.5	(nc)
Computer, numerical tool, and process control programmers	190	0.3	(nc)
Computer programmers	190	0.3	20
Surveying, cartographic, photogrammetric, and mapping technicians	160	0.2	(nc)
Surveying and mapping technicians	160	0.2	39
Pension, health, and welfare funds (SIC 6370)			
Scientific and technical personnel	2,210	3.4	(nc)
Managers of scientific and technical personnel	420	0.6	(nc)
Computer and information systems managers	420	0.6	7
Scientists	1,050	1.6	(nc)
Computer scientists	690	1.1	(nc)
Computer software, applications	170	0.3	17
Computer systems analysts	230	0.4	15
Network and computer systems administrators	290	0.4	10
Mathematical scientists	290	0.5	(nc)
Actuaries	240	0.4	13
Operations and systems researchers and analysts	50	0.1	19
Social scientists	70	0.1	(nc)
Market research analysts	70	0.1	23
Technicians	740	1.1	(nc)
Computer, numerical tool, and process control programmers	740	1.1	(nc)
Computer programmers	740	1.1	14

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Insurance carriers, n.e.c. (SIC 6390)			
Scientific and technical personnel	80	1.6	(nc)
Managers of scientific and technical personnel	40	0.8	(nc)
Computer and information systems managers	40	0.8	19
Technicians	40	0.8	(nc)
Computer, numerical tool, and process control programmers	40	0.8	(nc)
Computer programmers	40	0.8	19
Insurance agents, brokers, and service (SIC 6410)			
Scientific and technical personnel	20,290	2.7	(nc)
Managers of scientific and technical personnel	4,120	0.5	(nc)
Computer and information systems managers	4,090	0.5	5
Engineering managers	30	<	26
Scientists	11,290	1.5	(nc)
Computer scientists	8,430	1.1	(nc)
Computer software, applications	900	0.1	21
Computer software, systems	270	<	31
Computer systems analysts	4,050	0.5	21
Network and computer systems administrators	2,310	0.3	6
Network systems/data communications analysts	900	0.1	17
Mathematical scientists	1,310	0.2	(nc)
Actuaries	810	0.1	14
Operations and systems researchers and analysts	280	<	14
Statisticians	220	<	25
Social scientists	1,550	0.2	(nc)
Market research analysts	1,550	0.2	18
Engineers	990	0.1	(nc)
Other engineers	990	0.1	(nc)
Safety	990	0.1	18
Technicians	3,890	0.5	(nc)
Computer, numerical tool, and process control programmers	3,780	0.5	(nc)
Computer programmers	3,780	0.5	6
Engineering technicians	80	<	(nc)
Industrial engineering technicians	50	<	36
All other engineering technicians	30	<	(nc)
Audio and video equipment technicians	30	<	37
Mathematical technicians	30	<	34

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 60-67 (finance, insurance, and real estate), and the relative standard error: 2000

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Real estate operators and lessors (SIC 6510)			
Scientific and technical personnel	1,460	0.2	(nc)
Managers of scientific and technical personnel	470	0.1	(nc)
Computer and information systems managers	330	0.1	12
Engineering managers	140	<	23
Scientists	790	0.1	(nc)
Computer scientists	590	0.1	(nc)
Computer software, applications	80	<	31
Network and computer systems administrators	370	0.1	17
Network systems/data communications analysts	140	<	36
Social scientists	200	<	(nc)
Market research analysts	200	<	25
Technicians	200	<	(nc)
Computer, numerical tool, and process control programmers	140	<	(nc)
Computer programmers	140	<	16
Drafters	60	<	(nc)
Architectural and civil drafters	60	<	22
Real estate agents and managers (SIC 6530)			
Scientific and technical personnel	4,960	0.7	(nc)
Managers of scientific and technical personnel	920	0.1	(nc)
Computer and information systems managers	920	0.1	8
Scientists	2,080	0.3	(nc)
Computer scientists	1,380	0.2	(nc)
Computer software, applications	30	<	36
Computer systems analysts	210	<	20
Network and computer systems administrators	990	0.1	10
Network systems/data communications analysts	150	<	22
Social scientists	700	0.1	(nc)
Market research analysts	700	0.1	23
Engineers	490	0.1	(nc)
Mechanical	490	0.1	39
Technicians	1,470	0.2	(nc)
Computer, numerical tool, and process control programmers	1,160	0.2	(nc)
Computer programmers	1,160	0.2	21
Drafters	110	<	(nc)
Architectural and civil drafters	110	<	32
Engineering technicians	200	<	(nc)
Electronical/electronics engineering technicians	150	<	32
Mechanical engineering technicians	50	<	39

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Title abstract offices (SIC 6540)			
Scientific and technical personnel	220	0.5	(nc)
Managers of scientific and technical personnel	90	0.2	(nc)
Computer and information systems managers	90	0.2	12
Scientists	130	0.3	(nc)
Computer scientists	100	0.2	(nc)
Computer systems analysts	50	0.1	25
Network and computer systems administrators	50	0.1	17
Mathematical scientists	30	0.1	(nc)
Operations and systems researchers and analysts	30	0.1	42
Subdividers and developers (SIC 6550)			
Scientific and technical personnel	1,030	0.8	(nc)
Managers of scientific and technical personnel	100	0.1	(nc)
Engineering managers	100	0.1	27
Scientists	190	0.1	(nc)
Computer scientists	120	0.1	(nc)
Network and computer systems administrators	120	0.1	13
Social scientists	70	0.1	(nc)
Market research analysts	30	<	29
Urban and regional planners	40	<	43
Engineers	260	0.2	(nc)
Civil	170	0.1	27
Sales	90	0.1	16
Technicians	480	0.4	(nc)
Computer, numerical tool, and process control programmers	80	0.1	(nc)
Computer programmers	80	0.1	15
Drafters	150	0.1	(nc)
Architectural and civil drafters	150	0.1	21
Engineering technicians	70	0.1	(nc)
Civil engineering technicians	70	0.1	45
Surveying, cartographic, photogrammetric, and mapping technicians	180	0.1	(nc)
Surveying and mapping technicians	60	0.1	47
Surveyors	120	0.1	32
Holding offices (SIC 6710)			
Scientific and technical personnel	7,630	7.2	(nc)
Managers of scientific and technical personnel	1,580	1.5	(nc)
Computer and information systems managers	1,310	1.2	12
Engineering managers	180	0.2	19
Natural sciences managers	90	0.1	38

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 60-67 (finance, insurance, and real estate), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Holding offices (SIC 6710) -- continued:			
Scientists	4,360	4.1	(nc)
Computer scientists	3,320	3.1	(nc)
Computer software, applications	530	0.5	14
Computer software, systems	210	0.2	17
Computer systems analysts	1,160	1.1	12
Network and computer systems administrators	850	0.8	11
Network systems/data communications analysts	570	0.5	13
Mathematical scientists	310	0.3	(nc)
Actuaries	90	0.1	26
Operations and systems researchers and analysts	190	0.2	15
Statisticians	30	<	24
Physical scientists	50	0.1	(nc)
Environmental scientists and specialists, including health	50	0.1	46
Social scientists	680	0.6	(nc)
Market research analysts	680	0.6	35
Engineers	710	0.7	(nc)
Civil	60	0.1	45
Electrical/electronics	290	0.3	(nc)
Electrical	290	0.3	34
Industrial	120	0.1	25
Mechanical	80	0.1	37
Sales	50	0.1	24
Other engineers	110	0.1	(nc)
Environmental	30	<	24
Safety	80	0.1	23
Technicians	980	0.9	(nc)
Computer, numerical tool, and process control programmers	700	0.7	(nc)
Computer programmers	700	0.7	13
Engineering technicians	250	0.2	(nc)
Civil engineering technicians	40	<	28
Electronical/electronics engineering technicians	50	0.1	27
Industrial engineering technicians	160	0.2	42
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	42
Investment offices (SIC 6720)			
Scientific and technical personnel	1,600	5.7	(nc)
Managers of scientific and technical personnel	350	1.3	(nc)
Computer and information systems managers	350	1.3	28
Scientists	1,090	3.9	(nc)
Computer scientists	920	3.3	(nc)
Computer systems analysts	240	0.9	20
Network and computer systems administrators	350	1.3	16
Network systems/data communications analysts	330	1.2	17

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 60-67 (finance, insurance, and real estate),
and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Investment offices (SIC 6720) -- continued:			
Life scientists	30	0.1	(nc)
Foresters	30	0.1	42
Mathematical scientists	50	0.2	(nc)
Operations and systems researchers and analysts	50	0.2	35
Social scientists	90	0.3	(nc)
Market research analysts	90	0.3	14
Technicians	160	0.6	(nc)
Computer, numerical tool, and process control programmers	160	0.6	(nc)
Computer programmers	160	0.6	24
Trusts (SIC 6730)			
Scientific and technical personnel	1,670	3.0	(nc)
Managers of scientific and technical personnel	300	0.5	(nc)
Computer and information systems managers	300	0.5	10
Scientists	980	1.8	(nc)
Computer scientists	360	0.7	(nc)
Computer software, applications	40	0.1	32
Computer systems analysts	60	0.1	19
Network and computer systems administrators	170	0.3	14
Network systems/data communications analysts	90	0.2	23
Life scientists	100	0.2	(nc)
Medical scientists, except epidemiologists	100	0.2	24
Mathematical scientists	430	0.8	(nc)
Operations and systems researchers and analysts	430	0.8	41
Social scientists	90	0.2	(nc)
Market research analysts	90	0.2	20
Technicians	390	0.7	(nc)
Computer, numerical tool, and process control programmers	150	0.3	(nc)
Computer programmers	150	0.3	24
Physical and life science technicians	240	0.4	(nc)
Biological technicians	240	0.4	48
Misc. investing (SIC 6790)			
Scientific and technical personnel	3,090	5.4	(nc)
Managers of scientific and technical personnel	570	1.0	(nc)
Computer and information systems managers	420	0.7	9
Engineering managers	150	0.3	32

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers, in SICs 60-67 (finance, insurance, and real estate), and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. investing (SIC 6790) -- continued:			
Scientists	1,580	2.8	(nc)
Computer scientists	1,380	2.4	(nc)
Computer software, applications	740	1.3	21
Computer software, systems	50	0.1	29
Computer systems analysts	270	0.5	23
Network and computer systems administrators	240	0.4	14
Network systems/data communications analysts	80	0.1	15
Social scientists	200	0.4	(nc)
Market research analysts	200	0.4	35
Engineers	90	0.2	(nc)
Sales	60	0.1	40
Other engineers	30	0.1	(nc)
Petroleum	30	0.1	42
Technicians	850	1.5	(nc)
Computer, numerical tool, and process control programmers	850	1.5	(nc)
Computer programmers	850	1.5	11

[1] SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2] Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:
- nc = Not computed
- < = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.
- n.e.c. = Not elsewhere classified.
- SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Hotels and motels (SIC 7010)			
Scientific and technical personnel	3,110	0.2	(nc)
Managers of scientific and technical personnel	380	<	(nc)
Computer and information systems managers	260	<	13
Engineering managers	120	<	15
Scientists	1,050	0.1	(nc)
Computer scientists	990	0.1	(nc)
Computer systems analysts	160	<	14
Network and computer systems administrators	740	<	12
Network systems/data communications analysts	90	<	44
Social scientists	60	<	(nc)
Market research analysts	60	<	19
Engineers	250	<	(nc)
Electrical/electronics	50	<	(nc)
Electrical	50	<	28
Mechanical	60	<	29
Sales	140	<	19
Technicians	1,430	0.1	(nc)
Computer, numerical tool, and process control programmers	220	<	(nc)
Computer programmers	220	<	19
Engineering technicians	1,210	0.1	(nc)
Electronical/electronics engineering technicians	130	<	30
Electro-mechanical technicians	60	<	40
All other engineering technicians	1,020	0.1	(nc)
Audio and video equipment technicians	1,020	0.1	14
Laundry, cleaning, and garment services (SIC 7210)			
Scientific and technical personnel	170	<	(nc)
Technicians	170	<	(nc)
Computer, numerical tool, and process control programmers	170	<	(nc)
Computer programmers	170	<	25
Funeral service and crematories (SIC 7260)			
Scientific and technical personnel	150	0.2	(nc)
Managers of scientific and technical personnel	50	0.1	(nc)
Computer and information systems managers	50	0.1	35
Technicians	100	0.1	(nc)
Computer, numerical tool, and process control programmers	100	0.1	(nc)
Computer programmers	100	0.1	31

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. personal services (SIC 7290)			
Scientific and technical personnel	460	0.2	(nc)
Scientists	90	<	(nc)
Computer scientists	30	<	(nc)
Network and computer systems administrators	30	<	31
Social scientists	60	<	(nc)
Market research analysts	60	<	19
Technicians	370	0.2	(nc)
Computer, numerical tool, and process control programmers	370	0.2	(nc)
Computer programmers	370	0.2	30
Advertising (SIC 7310)			
Scientific and technical personnel	14,660	4.8	(nc)
Managers of scientific and technical personnel	1,900	0.6	(nc)
Computer and information systems managers	1,710	0.6	16
Engineering managers	190	0.1	42
Scientists	9,560	3.1	(nc)
Computer scientists	7,400	2.4	(nc)
Computer software, applications	1,600	0.5	16
Computer software, systems	1,980	0.7	27
Computer systems analysts	1,730	0.6	19
Network and computer systems administrators	1,180	0.4	12
Network systems/data communications analysts	910	0.3	17
Mathematical scientists	160	0.1	(nc)
Operations and systems researchers and analysts	160	0.1	28
Social scientists	2,000	0.7	(nc)
Market research analysts	2,000	0.7	9
Engineers	230	0.1	(nc)
Computer	80	<	42
Electrical/electronics	150	0.1	(nc)
Electronics	150	0.1	36
Technicians	2,970	1.0	(nc)
Computer, numerical tool, and process control programmers	2,390	0.8	(nc)
Computer programmers	2,390	0.8	14
Engineering technicians	580	0.2	(nc)
Electronical/electronics engineering technicians	120	<	41
All other engineering technicians	460	0.2	(nc)
Audio and video equipment technicians	160	0.1	20
Broadcast technicians	300	0.1	19

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Credit reporting and collection (SIC 7320)			
Scientific and technical personnel	2,370	1.5	(nc)
Managers of scientific and technical personnel	580	0.4	(nc)
Computer and information systems managers	580	0.4	8
Scientists	1,080	0.7	(nc)
Computer scientists	1,010	0.6	(nc)
Computer software, applications	60	<	5
Computer systems analysts	500	0.3	14
Network and computer systems administrators	340	0.2	10
Network systems/data communications analysts	110	0.1	4
Social scientists	70	<	(nc)
Market research analysts	70	<	27
Technicians	710	0.5	(nc)
Computer, numerical tool, and process control programmers	710	0.5	(nc)
Computer programmers	710	0.5	10
Mailing, reproduction, and stenographic (SIC 7330)			
Scientific and technical personnel	9,250	2.8	(nc)
Managers of scientific and technical personnel	930	0.3	(nc)
Computer and information systems managers	930	0.3	7
Scientists	5,430	1.6	(nc)
Computer scientists	4,800	1.5	(nc)
Computer software, applications	1,770	0.5	33
Computer software, systems	70	<	29
Computer systems analysts	1,090	0.3	22
Network and computer systems administrators	1,320	0.4	10
Network systems/data communications analysts	550	0.2	19
Mathematical scientists	140	<	(nc)
Operations and systems researchers and analysts	140	<	28
Social scientists	490	0.2	(nc)
Market research analysts	490	0.2	21
Engineers	200	0.1	(nc)
Computer	30	<	45
Sales	170	0.1	45
Technicians	2,690	0.8	(nc)
Computer, numerical tool, and process control programmers	2,430	0.7	(nc)
Computer programmers	2,430	0.7	10
Drafters	130	<	(nc)
Mechanical drafters	130	<	30
Surveying, cartographic, photogrammetric, and mapping technicians	130	<	(nc)
Cartographers and photogrammetrists	130	<	24

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Services to buildings (SIC 7340)			
Scientific and technical personnel	990	0.1	(nc)
Managers of scientific and technical personnel	130	<	(nc)
Computer and information systems managers	130	<	20
Scientists	40	<	(nc)
Computer scientists	40	<	(nc)
Network and computer systems administrators	40	<	49
Engineers	420	<	(nc)
Mechanical	420	<	37
Technicians	400	<	(nc)
Computer, numerical tool, and process control programmers	240	<	(nc)
Computer programmers	240	<	48
Engineering technicians	160	<	(nc)
Electronical/electronics engineering technicians	70	<	33
Mechanical engineering technicians	90	<	48
Misc. equipment rental and leasing (SIC 7350)			
Scientific and technical personnel	3,170	1.1	(nc)
Managers of scientific and technical personnel	390	0.1	(nc)
Computer and information systems managers	390	0.1	12
Scientists	350	0.1	(nc)
Computer scientists	300	0.1	(nc)
Computer software, applications	50	<	40
Computer systems analysts	40	<	35
Network and computer systems administrators	210	0.1	20
Social scientists	50	<	(nc)
Market research analysts	50	<	42
Engineers	460	0.2	(nc)
Civil	40	<	23
Mechanical	420	0.2	15
Technicians	1,970	0.7	(nc)
Computer, numerical tool, and process control programmers	160	0.1	(nc)
Computer programmers	160	0.1	21
Engineering technicians	1,810	0.6	(nc)
Electronical/electronics engineering technicians	210	0.1	22
All other engineering technicians	1,600	0.6	(nc)
Audio and video equipment technicians	1,600	0.6	17

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Personnel supply services (SIC 7360)			
Scientific and technical personnel	100,790	2.6	(nc)
Managers of scientific and technical personnel	2,530	0.1	(nc)
Computer and information systems managers	2,410	0.1	13
Engineering managers	120	<	30
Scientists	28,000	0.7	(nc)
Computer scientists	23,990	0.6	(nc)
Computer software, applications	3,830	0.1	17
Computer software, systems	6,840	0.2	39
Computer systems analysts	8,010	0.2	10
Network and computer systems administrators	4,040	0.1	10
Network systems/data communications analysts	1,270	<	18
Life scientists	220	<	(nc)
Biochemists and biophysicists	220	<	42
Mathematical scientists	130	<	(nc)
Operations and systems researchers and analysts	130	<	21
Physical scientists	1,320	<	(nc)
Chemists	1,010	<	21
Environmental scientists and specialists, including health	70	<	37
Geoscientists, except hydrologists and geographers	240	<	35
Social scientists	2,340	0.1	(nc)
Market research analysts	660	<	29
Survey researchers	1,680	<	44
Engineers	28,180	0.7	(nc)
Aeronautical	2,290	0.1	35
Civil	1,930	0.1	35
Computer	1,130	<	19
Electrical/electronics	6,090	0.2	(nc)
Electrical	4,960	0.1	21
Electronics	1,130	<	20
Industrial	3,110	0.1	24
Mechanical	13,330	0.3	44
Sales	110	<	39
Other engineers	190	<	(nc)
Biomedical	60	<	44
Environmental	100	<	41
Petroleum	30	<	48
Technicians	42,080	1.1	(nc)
Computer, numerical tool, and process control programmers	18,120	0.5	(nc)
Computer programmers	17,670	0.5	13
Numerical tool and process control programmers	450	<	48
Drafters	6,220	0.2	(nc)
Architectural and civil drafters	1,490	<	26
Electrical and electronics drafters	2,680	0.1	15
Mechanical drafters	2,050	0.1	26

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Personnel supply services (SIC 7360) -- continued:			
Engineering technicians	14,960	0.4	(nc)
Aerospace engineering and operations technicians	900	<	47
Civil engineering technicians	70	<	47
Electronical/electronics engineering technicians	8,950	0.2	21
Electro-mechanical technicians	2,040	0.1	29
Environmental engineering technicians	90	<	30
Industrial engineering technicians	650	<	30
Mechanical engineering technicians	2,260	0.1	15
Physical and life science technicians	1,610	<	(nc)
Agricultural and food science technicians	440	<	45
Biological technicians	440	<	26
Chemical technicians, except health	730	<	24
Surveying, cartographic, photogrammetric, and mapping technicians	1,170	<	(nc)
Cartographers and photogrammetrists	70	<	32
Surveying and mapping technicians	740	<	21
Surveyors	360	<	23
Computer and data processing services (SIC 7370)			
Scientific and technical personnel	986,450	44.0	(nc)
Managers of scientific and technical personnel	88,880	4.0	(nc)
Computer and information systems managers	68,850	3.1	4
Engineering managers	19,870	0.9	14
Natural sciences managers	160	<	46
Scientists	610,400	27.2	(nc)
Computer scientists	586,320	26.2	(nc)
Computer and information scientists, research	9,340	0.4	9
Computer software, applications	211,360	9.4	4
Computer software, systems	111,830	5.0	6
Computer systems analysts	153,110	6.8	5
Network and computer systems administrators	64,860	2.9	4
Network systems/data communications analysts	35,820	1.6	9
Mathematical scientists	12,540	0.6	(nc)
Actuaries	130	<	25
Operations and systems researchers and analysts	12,020	0.5	10
Statisticians	390	<	33
Physical scientists	410	<	(nc)
Atmospheric and space scientists	410	<	29
Social scientists	11,130	0.5	(nc)
Economists	240	<	43
Market research analysts	10,890	0.5	10

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Computer and data processing services (SIC 7370) -- continued:			
Engineers	46,410	2.1	(nc)
Aeronautical	30	<	30
Civil	40	<	21
Computer	16,090	0.7	9
Electrical/electronics	5,690	0.3	(nc)
Electrical	3,800	0.2	20
Electronics	1,890	0.1	17
Industrial	12,120	0.5	12
Mechanical	290	<	25
Sales	12,030	0.5	15
Other engineers	120	<	(nc)
Safety	120	<	42
Technicians	240,760	10.7	(nc)
Computer, numerical tool, and process control programmers	220,090	9.8	(nc)
Computer programmers	220,090	9.8	6
Drafters	1,670	0.1	(nc)
Electrical and electronics drafters	1,670	0.1	44
Engineering technicians	18,900	0.9	(nc)
Electronical/electronics engineering technicians	11,560	0.5	13
Electro-mechanical technicians	80	<	40
Industrial engineering technicians	6,240	0.3	14
Mechanical engineering technicians	140	<	37
All other engineering technicians	880	<	(nc)
Audio and video equipment technicians	790	<	39
Broadcast technicians	90	<	25
Surveying, cartographic, photogrammetric, and mapping technicians	100	<	(nc)
Cartographers and photogrammetrists	70	<	39
Surveying and mapping technicians	30	<	47
Misc. business services (SIC 7380)			
Scientific and technical personnel	28,660	1.5	(nc)
Managers of scientific and technical personnel	4,530	0.2	(nc)
Computer and information systems managers	4,270	0.2	7
Engineering managers	260	<	23
Scientists	10,980	0.6	(nc)
Computer scientists	9,740	0.5	(nc)
Computer and information scientists, research	50	<	36
Computer software, applications	1,340	0.1	21
Computer software, systems	740	<	24
Computer systems analysts	4,880	0.3	15
Network and computer systems administrators	2,140	0.1	8
Network systems/data communications analysts	590	<	23

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. business services (SIC 7380) -- continued:			
Life scientists	30	<	(nc)
Microbiologists	30	<	31
Mathematical scientists	370	<	(nc)
Operations and systems researchers and analysts	370	<	46
Social scientists	840	<	(nc)
Market research analysts	420	<	26
Survey researchers	420	<	46
Engineers	2,710	0.1	(nc)
Computer	90	<	27
Electrical/electronics	530	<	(nc)
Electrical	270	<	23
Electronics	260	<	34
Industrial	840	0.1	22
Mechanical	750	<	25
Sales	460	<	41
Other engineers	40	<	(nc)
Environmental	40	<	42
Technicians	10,440	0.6	(nc)
Computer, numerical tool, and process control programmers	6,670	0.4	(nc)
Computer programmers	6,670	0.4	11
Drafters	360	<	(nc)
Electrical and electronics drafters	360	<	25
Engineering technicians	1,240	0.1	(nc)
Electro-mechanical technicians	330	<	31
Mechanical engineering technicians	750	<	42
All other engineering technicians	160	<	(nc)
Audio and video equipment technicians	160	<	32
Physical and life science technicians	50	<	(nc)
Biological technicians	50	<	46
Surveying, cartographic, photogrammetric, and mapping technicians	2,120	0.1	(nc)
Cartographers and photogrammetrists	340	<	48
Surveying and mapping technicians	1,140	0.1	28
Surveyors	640	<	28
Automobile rentals, no drivers (SIC 7510)			
Scientific and technical personnel	1,610	0.7	(nc)
Managers of scientific and technical personnel	370	0.2	(nc)
Computer and information systems managers	370	0.2	20
Scientists	210	0.1	(nc)
Computer scientists	210	0.1	(nc)
Network and computer systems administrators	210	0.1	27

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Automobile rentals, no drivers (SIC 7510) -- continued:			
Engineers	240	0.1	(nc)
Mechanical	50	<	42
Sales	190	0.1	44
Technicians	790	0.4	(nc)
Computer, numerical tool, and process control programmers	790	0.4	(nc)
Computer programmers	790	0.4	24
Automobile repair shops (SIC 7530)			
Scientific and technical personnel	1,210	0.2	(nc)
Scientists	420	0.1	(nc)
Computer scientists	390	0.1	(nc)
Computer software, applications	130	<	50
Computer systems analysts	80	<	48
Network and computer systems administrators	180	<	28
Social scientists	30	<	(nc)
Market research analysts	30	<	37
Engineers	120	<	(nc)
Electrical/electronics	50	<	(nc)
Electrical	50	<	36
Industrial	70	<	33
Technicians	670	0.1	(nc)
Computer, numerical tool, and process control programmers	390	0.1	(nc)
Computer programmers	390	0.1	35
Drafters	90	<	(nc)
Electrical and electronics drafters	90	<	44
Engineering technicians	190	<	(nc)
Electronical/electronics engineering technicians	160	<	43
All other engineering technicians	30	<	(nc)
Transportation inspectors	30	<	38
Automobile services, except repair (SIC 7540)			
Scientific and technical personnel	670	0.3	(nc)
Technicians	670	0.3	(nc)
Computer, numerical tool, and process control programmers	50	<	(nc)
Computer programmers	50	<	41
Engineering technicians	620	0.3	(nc)
All other engineering technicians	620	0.3	(nc)
Transportation inspectors	620	0.3	35

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Electrical repair shops (SIC 7620)			
Scientific and technical personnel	3,410	3.3	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Engineering managers	30	<	13
Scientists	230	0.2	(nc)
Computer scientists	200	0.2	(nc)
Computer software, applications	40	<	30
Network and computer systems administrators	130	0.1	6
Network systems/data communications analysts	30	<	17
Social scientists	30	<	(nc)
Market research analysts	30	<	17
Engineers	740	0.7	(nc)
Electrical/electronics	740	0.7	(nc)
Electrical	480	0.5	19
Electronics	260	0.3	12
Technicians	2,410	2.3	(nc)
Computer, numerical tool, and process control programmers	190	0.2	(nc)
Computer programmers	190	0.2	10
Drafters	160	0.2	(nc)
Electrical and electronics drafters	90	0.1	19
Mechanical drafters	70	0.1	34
Engineering technicians	2,060	2.0	(nc)
Electronical/electronics engineering technicians	1,570	1.5	12
Electro-mechanical technicians	420	0.4	21
All other engineering technicians	70	0.1	(nc)
Audio and video equipment technicians	70	0.1	48
Misc. repair shops (SIC 7690)			
Scientific and technical personnel	2,810	1.2	(nc)
Managers of scientific and technical personnel	210	0.1	(nc)
Engineering managers	210	0.1	42
Scientists	180	0.1	(nc)
Computer scientists	180	0.1	(nc)
Network and computer systems administrators	180	0.1	21
Engineers	670	0.3	(nc)
Electrical/electronics	640	0.3	(nc)
Electrical	450	0.2	38
Electronics	190	0.1	38
Industrial	30	<	17

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. repair shops (SIC 7690) -- continued:			
Technicians	1,750	0.8	(nc)
Computer, numerical tool, and process control programmers	100	<	(nc)
Computer programmers	100	<	15
Drafters	180	0.1	(nc)
Mechanical drafters	180	0.1	24
Engineering technicians	1,470	0.6	(nc)
Electronical/electronics engineering technicians	890	0.4	34
Electro-mechanical technicians	580	0.3	38
Motion picture production and services (SIC 7810)			
Scientific and technical personnel	21,140	7.3	(nc)
Managers of scientific and technical personnel	2,240	0.8	(nc)
Computer and information systems managers	1,440	0.5	36
Engineering managers	800	0.3	14
Scientists	3,950	1.4	(nc)
Computer scientists	3,910	1.4	(nc)
Computer software, applications	1,270	0.4	32
Computer systems analysts	1,590	0.6	22
Network and computer systems administrators	570	0.2	16
Network systems/data communications analysts	480	0.2	35
Social scientists	40	<	(nc)
Market research analysts	40	<	30
Engineers	1,490	0.5	(nc)
Electrical/electronics	370	0.1	(nc)
Electrical	200	0.1	45
Electronics	170	0.1	38
Industrial	1,010	0.4	24
Sales	110	<	40
Technicians	13,460	4.6	(nc)
Computer, numerical tool, and process control programmers	1,140	0.4	(nc)
Computer programmers	1,140	0.4	12
Engineering technicians	12,320	4.3	(nc)
Electronical/electronics engineering technicians	1,140	0.4	35
All other engineering technicians	11,180	3.9	(nc)
Audio and video equipment technicians	8,900	3.1	15
Broadcast technicians	2,280	0.8	31
Motion picture distribution and services (SIC 7820)			
Scientific and technical personnel	440	2.6	(nc)
Managers of scientific and technical personnel	110	0.7	(nc)
Computer and information systems managers	110	0.7	23

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Motion picture distribution and services (SIC 7820) -- continued:			
Scientists	90	0.5	(nc)
Computer scientists	90	0.5	(nc)
Network and computer systems administrators	60	0.4	24
Network systems/data communications analysts	30	0.2	28
Technicians	240	1.4	(nc)
Computer, numerical tool, and process control programmers	190	1.1	(nc)
Computer programmers	190	1.1	34
Engineering technicians	50	0.3	(nc)
All other engineering technicians	50	0.3	(nc)
Audio and video equipment technicians	50	0.3	29
Motion picture theaters (SIC 7830)			
Scientific and technical personnel	240	0.2	(nc)
Managers of scientific and technical personnel	40	<	(nc)
Computer and information systems managers	40	<	32
Scientists	30	<	(nc)
Computer scientists	30	<	(nc)
Computer systems analysts	30	<	43
Technicians	170	0.1	(nc)
Engineering technicians	170	0.1	(nc)
All other engineering technicians	170	0.1	(nc)
Audio and video equipment technicians	170	0.1	33
Video tape rental (SIC 7840)			
Scientific and technical personnel	100	0.1	(nc)
Technicians	100	0.1	(nc)
Engineering technicians	100	0.1	(nc)
All other engineering technicians	100	0.1	(nc)
Audio and video equipment technicians	100	0.1	50
Producers, orchestras, and entertainers (SIC 7920)			
Scientific and technical personnel	3,070	1.7	(nc)
Managers of scientific and technical personnel	60	<	(nc)
Computer and information systems managers	60	<	15
Scientists	170	0.1	(nc)
Computer scientists	50	<	(nc)
Network and computer systems administrators	50	<	20
Social scientists	120	0.1	(nc)
Market research analysts	120	0.1	28

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Producers, orchestras, and entertainers (SIC 7920) -- continued:			
Technicians	2,840	1.6	(nc)
Computer, numerical tool, and process control programmers	150	0.1	(nc)
Computer programmers	150	0.1	13
Engineering technicians	2,690	1.5	(nc)
Electronical/electronics engineering technicians	450	0.3	37
All other engineering technicians	2,240	1.3	(nc)
Audio and video equipment technicians	2,240	1.3	15
Commercial sports (SIC 7940)			
Scientific and technical personnel	1,390	1.0	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Computer and information systems managers	30	<	40
Scientists	90	0.1	(nc)
Computer scientists	30	<	(nc)
Network and computer systems administrators	30	<	35
Social scientists	60	<	(nc)
Market research analysts	60	<	22
Engineers	200	0.1	(nc)
Mechanical	200	0.1	23
Technicians	1,070	0.8	(nc)
Computer, numerical tool, and process control programmers	240	0.2	(nc)
Computer programmers	240	0.2	20
Engineering technicians	830	0.6	(nc)
All other engineering technicians	830	0.6	(nc)
Audio and video equipment technicians	580	0.4	14
Broadcast technicians	250	0.2	17
Misc. amusement, recreation services (SIC 7990)			
Scientific and technical personnel	2,910	0.2	(nc)
Managers of scientific and technical personnel	310	<	(nc)
Computer and information systems managers	170	<	13
Engineering managers	80	<	22
Natural sciences managers	60	<	19
Scientists	740	0.1	(nc)
Computer scientists	460	<	(nc)
Computer software, applications	60	<	8
Computer software, systems	40	<	33
Computer systems analysts	90	<	12
Network and computer systems administrators	170	<	18
Network systems/data communications analysts	100	<	19

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Misc. amusement, recreation services (SIC 7990) -- continued:			
Life scientists	40	<	(nc)
Zoologists and wildlife biologists	40	<	17
Social scientists	240	<	(nc)
Market research analysts	240	<	9
Engineers	280	<	(nc)
Civil	120	<	32
Other engineers	160	<	(nc)
Environmental	100	<	21
Marine	60	<	32
Technicians	1,580	0.1	(nc)
Computer, numerical tool, and process control programmers	400	<	(nc)
Computer programmers	400	<	15
Engineering technicians	1,180	0.1	(nc)
Civil engineering technicians	30	<	37
Electronical/electronics engineering technicians	230	<	26
All other engineering technicians	920	0.1	(nc)
Audio and video equipment technicians	880	0.1	19
Broadcast technicians	40	<	25
Offices and clinics of medical doctors (SIC 8010)			
Scientific and technical personnel	16,060	0.8	(nc)
Managers of scientific and technical personnel	1,850	0.1	(nc)
Computer and information systems managers	1,610	0.1	9
Natural sciences managers	240	<	27
Scientists	13,860	0.7	(nc)
Computer scientists	2,920	0.1	(nc)
Computer software, applications	640	<	15
Computer systems analysts	780	<	18
Network and computer systems administrators	1,250	0.1	13
Network systems/data communications analysts	250	<	16
Life scientists	900	<	(nc)
Medical scientists, except epidemiologists	620	<	28
Microbiologists	280	<	22
Mathematical scientists	40	<	(nc)
Actuaries	40	<	33
Physical scientists	110	<	(nc)
Physicists	110	<	34
Social scientists	9,890	0.5	(nc)
Clinical, counseling, and school psychologists	9,490	0.5	37
Economists	110	<	47
Market research analysts	290	<	25

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Offices and clinics of medical doctors (SIC 8010) -- continued:			
Engineers	220	<	(nc)
Other engineers	220	<	(nc)
Biomedical	220	<	32
Technicians	130	<	(nc)
Physical and life science technicians	130	<	(nc)
Biological technicians	130	<	31
Offices and clinics of dentists (SIC 8020)			
Scientific and technical personnel	70	<	(nc)
Managers of scientific and technical personnel	30	<	(nc)
Computer and information systems managers	30	<	28
Technicians	40	<	(nc)
Computer, numerical tool, and process control programmers	40	<	(nc)
Computer programmers	40	<	23
Offices of other health practitioners (SIC 8040)			
Scientific and technical personnel	8,440	1.9	(nc)
Managers of scientific and technical personnel	100	<	(nc)
Computer and information systems managers	100	<	15
Scientists	8,340	1.9	(nc)
Computer scientists	160	<	(nc)
Computer systems analysts	30	<	22
Network and computer systems administrators	130	<	35
Social scientists	8,180	1.8	(nc)
Clinical, counseling, and school psychologists	8,080	1.8	10
Market research analysts	100	<	37
Nursing and personal care facilities (SIC 8050)			
Scientific and technical personnel	1,490	0.1	(nc)
Managers of scientific and technical personnel	490	<	(nc)
Computer and information systems managers	490	<	9
Scientists	1,000	0.1	(nc)
Computer scientists	340	<	(nc)
Computer software, applications	60	<	40
Network and computer systems administrators	280	<	15
Social scientists	660	<	(nc)
Clinical, counseling, and school psychologists	350	<	19
Market research analysts	280	<	21
Sociologists	30	<	30

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Hospitals (SIC 8060)			
Scientific and technical personnel	66,280	1.3	(nc)
Managers of scientific and technical personnel	7,860	0.2	(nc)
Computer and information systems managers	6,940	0.1	6
Engineering managers	540	<	8
Natural sciences managers	380	<	17
Scientists	45,810	0.9	(nc)
Computer scientists	21,030	0.4	(nc)
Computer and information scientists, research	100	<	15
Computer software, applications	5,410	0.1	6
Computer software, systems	680	<	26
Computer systems analysts	7,800	0.2	5
Network and computer systems administrators	4,780	0.1	4
Network systems/data communications analysts	2,260	0.1	8
Life scientists	11,070	0.2	(nc)
Biochemists and biophysicists	280	<	31
Conservation scientists	60	<	21
Epidemiologists	510	<	14
Medical scientists, except epidemiologists	8,800	0.2	19
Microbiologists	1,420	<	11
Mathematical scientists	870	<	(nc)
Operations and systems researchers and analysts	500	<	14
Statisticians	370	<	19
Physical scientists	1,150	<	(nc)
Chemists	450	<	20
Environmental scientists and specialists, including health	180	<	37
Physicists	520	<	7
Social scientists	11,690	0.2	(nc)
Clinical, counseling, and school psychologists	11,020	0.2	5
Industrial-Organizational psychologists	140	<	14
Market research analysts	530	<	9
Engineers	1,990	<	(nc)
Civil	200	<	30
Computer	30	<	28
Electrical/electronics	110	<	(nc)
Electrical	80	<	34
Electronics	30	<	37
Industrial	40	<	23
Mechanical	120	<	14
Other engineers	1,490	<	(nc)
Biomedical	1,280	<	7
Safety	210	<	24

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Hospitals (SIC 8060) -- continued:			
Technicians	10,620	0.2	(nc)
Computer, numerical tool, and process control programmers	6,200	0.1	(nc)
Computer programmers	6,200	0.1	7
Drafters	90	<	(nc)
Architectural and civil drafters	50	<	15
Electrical and electronics drafters	40	<	27
Engineering technicians	1,100	<	(nc)
Civil engineering technicians	50	<	23
Electronical/electronics engineering technicians	430	<	15
Environmental engineering technicians	110	<	24
Mechanical engineering technicians	160	<	21
All other engineering technicians	350	<	(nc)
Audio and video equipment technicians	350	<	9
Mathematical technicians	30	<	34
Physical and life science technicians	3,200	0.1	(nc)
Biological technicians	1,900	<	26
Chemical technicians, except health	30	<	24
Environmental science and protection technicians, including health	980	<	20
Forensic science technicians	240	<	2
Nuclear technicians	50	<	27
Medical and dental laboratories (SIC 8070)			
Scientific and technical personnel	5,980	2.8	(nc)
Managers of scientific and technical personnel	780	0.4	(nc)
Computer and information systems managers	470	0.2	20
Natural sciences managers	310	0.2	21
Scientists	2,860	1.4	(nc)
Computer scientists	790	0.4	(nc)
Computer software, applications	180	0.1	17
Computer systems analysts	200	0.1	33
Network and computer systems administrators	290	0.1	12
Network systems/data communications analysts	120	0.1	46
Life scientists	2,010	1.0	(nc)
Biochemists and biophysicists	140	0.1	47
Medical scientists, except epidemiologists	590	0.3	23
Microbiologists	1,280	0.6	19
Social scientists	60	<	(nc)
Market research analysts	60	<	20
Engineers	120	0.1	(nc)
Other engineers	120	0.1	(nc)
Biomedical	120	0.1	22

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Medical and dental laboratories (SIC 8070) -- continued:			
Technicians	2,220	1.0	(nc)
Computer, numerical tool, and process control programmers	530	0.3	(nc)
Computer programmers	530	0.3	9
Physical and life science technicians	1,690	0.8	(nc)
Biological technicians	1,660	0.8	20
Forensic science technicians	30	<	45
Home health care services (SIC 8080)			
Scientific and technical personnel	1,070	0.2	(nc)
Managers of scientific and technical personnel	440	0.1	(nc)
Computer and information systems managers	440	0.1	9
Scientists	380	0.1	(nc)
Computer scientists	290	<	(nc)
Computer software, applications	70	<	26
Network and computer systems administrators	190	<	11
Network systems/data communications analysts	30	<	34
Social scientists	90	<	(nc)
Market research analysts	90	<	31
Technicians	250	<	(nc)
Computer, numerical tool, and process control programmers	250	<	(nc)
Computer programmers	250	<	12
Health and allied services, n.e.c. (SIC 8090)			
Scientific and technical personnel	7,680	2.1	(nc)
Managers of scientific and technical personnel	820	0.2	(nc)
Computer and information systems managers	770	0.2	10
Natural sciences managers	50	<	18
Scientists	6,300	1.7	(nc)
Computer scientists	480	0.1	(nc)
Computer systems analysts	90	<	14
Network and computer systems administrators	390	0.1	9
Life scientists	170	0.1	(nc)
Medical scientists, except epidemiologists	170	0.1	32
Mathematical scientists	50	<	(nc)
Statisticians	50	<	46
Social scientists	5,600	1.6	(nc)
Clinical, counseling, and school psychologists	5,210	1.4	8
Market research analysts	390	0.1	41
Technicians	560	0.2	(nc)
Computer, numerical tool, and process control programmers	560	0.2	(nc)
Computer programmers	560	0.2	13

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Legal services (SIC 8110)			
Scientific and technical personnel	11,200	1.1	(nc)
Managers of scientific and technical personnel	3,000	0.3	(nc)
Computer and information systems managers	3,000	0.3	8
Scientists	7,280	0.7	(nc)
Computer scientists	7,210	0.7	(nc)
Computer software, applications	1,270	0.1	14
Computer software, systems	510	0.1	16
Computer systems analysts	1,410	0.1	16
Network and computer systems administrators	3,090	0.3	10
Network systems/data communications analysts	930	0.1	15
Social scientists	70	<	(nc)
Market research analysts	70	<	18
Technicians	920	0.1	(nc)
Computer, numerical tool, and process control programmers	920	0.1	(nc)
Computer programmers	920	0.1	14
Elementary and secondary schools (SIC 8210)			
Scientific and technical personnel	54,640	0.7	(nc)
Managers of scientific and technical personnel	1,060	<	(nc)
Computer and information systems managers	990	<	10
Engineering managers	70	<	32
Scientists	48,730	0.6	(nc)
Computer scientists	11,720	0.2	(nc)
Computer software, applications	300	<	28
Computer software, systems	140	<	37
Computer systems analysts	1,210	<	9
Network and computer systems administrators	9,430	0.1	8
Network systems/data communications analysts	640	<	12
Mathematical scientists	50	<	(nc)
Operations and systems researchers and analysts	50	<	26
Social scientists	36,960	0.5	(nc)
Clinical, counseling, and school psychologists	36,960	0.5	5
Technicians	4,850	0.1	(nc)
Computer, numerical tool, and process control programmers	4,230	0.1	(nc)
Computer programmers	4,230	0.1	7
Engineering technicians	620	<	(nc)
All other engineering technicians	620	<	(nc)
Audio and video equipment technicians	510	<	10
Broadcast technicians	110	<	20

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Colleges, universities, and professional (SIC 8220)			
Scientific and technical personnel	59,800	2.0	(nc)
Managers of scientific and technical personnel	11,090	0.4	(nc)
Computer and information systems managers	8,020	0.3	4
Engineering managers	1,330	<	10
Natural sciences managers	1,740	0.1	10
Scientists	30,700	1.0	(nc)
Computer scientists	24,980	0.8	(nc)
Computer and information scientists, research	400	<	17
Computer software, applications	2,130	0.1	10
Computer software, systems	640	<	15
Computer systems analysts	12,540	0.4	4
Network and computer systems administrators	6,960	0.2	4
Network systems/data communications analysts	2,310	0.1	9
Mathematical scientists	2,590	0.1	(nc)
Mathematicians	240	<	20
Operations and systems researchers and analysts	1,160	<	13
Statisticians	1,190	<	12
Social scientists	3,130	0.1	(nc)
Clinical, counseling, and school psychologists	3,130	0.1	8
Technicians	18,010	0.6	(nc)
Computer, numerical tool, and process control programmers	12,900	0.4	(nc)
Computer programmers	12,900	0.4	5
Engineering technicians	5,020	0.2	(nc)
All other engineering technicians	5,020	0.2	(nc)
Audio and video equipment technicians	3,800	0.1	8
Broadcast technicians	1,190	<	9
Transportation inspectors	30	<	34
Mathematical technicians	30	<	23
Surveying, cartographic, photogrammetric, and mapping technicians	60	<	(nc)
Cartographers and photogrammetrists	60	<	17
Libraries (SIC 8230)			
Scientific and technical personnel	310	1.2	(nc)
Managers of scientific and technical personnel	50	0.2	(nc)
Computer and information systems managers	50	0.2	16
Scientists	220	0.9	(nc)
Computer scientists	220	0.9	(nc)
Computer systems analysts	40	0.2	17
Network and computer systems administrators	180	0.7	19
Technicians	40	0.2	(nc)
Computer, numerical tool, and process control programmers	40	0.2	(nc)
Computer programmers	40	0.2	21

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Vocational schools (SIC 8240)			
Scientific and technical personnel	2,820	2.2	(nc)
Managers of scientific and technical personnel	290	0.2	(nc)
Computer and information systems managers	290	0.2	11
Scientists	1,790	1.4	(nc)
Computer scientists	1,750	1.4	(nc)
Computer software, applications	150	0.1	36
Computer software, systems	50	<	40
Computer systems analysts	930	0.7	22
Network and computer systems administrators	520	0.4	14
Network systems/data communications analysts	100	0.1	28
Social scientists	40	<	(nc)
Clinical, counseling, and school psychologists	40	<	20
Engineers	120	0.1	(nc)
Sales	120	0.1	28
Technicians	620	0.5	(nc)
Computer, numerical tool, and process control programmers	520	0.4	(nc)
Computer programmers	520	0.4	36
Engineering technicians	100	0.1	(nc)
All other engineering technicians	100	0.1	(nc)
Audio and video equipment technicians	100	0.1	33
Schools and educational services, n.e.c. (SIC 8290)			
Scientific and technical personnel	2,320	1.1	(nc)
Managers of scientific and technical personnel	360	0.2	(nc)
Computer and information systems managers	330	0.2	12
Natural sciences managers	30	<	30
Scientists	1,060	0.5	(nc)
Computer scientists	820	0.4	(nc)
Computer software, applications	80	<	26
Computer systems analysts	280	0.1	18
Network and computer systems administrators	390	0.2	24
Network systems/data communications analysts	70	<	18
Social scientists	240	0.1	(nc)
Clinical, counseling, and school psychologists	240	0.1	12
Technicians	900	0.4	(nc)
Computer, numerical tool, and process control programmers	590	0.3	(nc)
Computer programmers	590	0.3	19
Engineering technicians	310	0.1	(nc)
All other engineering technicians	310	0.1	(nc)
Audio and video equipment technicians	220	0.1	32
Broadcast technicians	90	<	41

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Individual and family services (SIC 8320)			
Scientific and technical personnel	11,690	1.4	(nc)
Managers of scientific and technical personnel	790	0.1	(nc)
Computer and information systems managers	750	0.1	6
Natural sciences managers	40	<	25
Scientists	10,290	1.3	(nc)
Computer scientists	1,000	0.1	(nc)
Computer software, applications	170	<	15
Computer software, systems	40	<	31
Computer systems analysts	60	<	19
Network and computer systems administrators	630	0.1	10
Network systems/data communications analysts	100	<	34
Social scientists	9,290	1.1	(nc)
Clinical, counseling, and school psychologists	9,140	1.1	7
Sociologists	150	<	50
Technicians	610	0.1	(nc)
Computer, numerical tool, and process control programmers	610	0.1	(nc)
Computer programmers	610	0.1	11
Job training and related services (SIC 8330)			
Scientific and technical personnel	1,680	0.6	(nc)
Managers of scientific and technical personnel	340	0.1	(nc)
Computer and information systems managers	340	0.1	8
Scientists	1,000	0.3	(nc)
Computer scientists	430	0.1	(nc)
Computer software, applications	70	<	24
Computer systems analysts	60	<	15
Network and computer systems administrators	300	0.1	10
Social scientists	570	0.2	(nc)
Clinical, counseling, and school psychologists	460	0.2	13
Market research analysts	110	<	38
Technicians	340	0.1	(nc)
Computer, numerical tool, and process control programmers	340	0.1	(nc)
Computer programmers	340	0.1	11

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Child day care services (SIC 8350)			
Scientific and technical personnel	510	0.1	(nc)
Managers of scientific and technical personnel	110	<	(nc)
Computer and information systems managers	110	<	17
Scientists	300	0.1	(nc)
Computer scientists	50	<	(nc)
Network and computer systems administrators	50	<	10
Social scientists	250	<	(nc)
Clinical, counseling, and school psychologists	250	<	24
Technicians	100	<	(nc)
Computer, numerical tool, and process control programmers	100	<	(nc)
Computer programmers	100	<	25
Residential care (SIC 8360)			
Scientific and technical personnel	5,300	0.6	(nc)
Managers of scientific and technical personnel	410	0.1	(nc)
Computer and information systems managers	410	0.1	8
Scientists	4,620	0.6	(nc)
Computer scientists	580	0.1	(nc)
Computer software, applications	80	<	24
Computer systems analysts	120	<	25
Network and computer systems administrators	290	<	9
Network systems/data communications analysts	90	<	21
Social scientists	4,040	0.5	(nc)
Clinical, counseling, and school psychologists	3,850	0.5	17
Industrial-Organizational psychologists	30	<	25
Market research analysts	160	<	26
Technicians	270	<	(nc)
Computer, numerical tool, and process control programmers	270	<	(nc)
Computer programmers	270	<	11
Social services, n.e.c. (SIC 8390)			
Scientific and technical personnel	2,770	1.3	(nc)
Managers of scientific and technical personnel	640	0.3	(nc)
Computer and information systems managers	640	0.3	7
Scientists	1,770	0.8	(nc)
Computer scientists	780	0.4	(nc)
Computer systems analysts	90	<	18
Network and computer systems administrators	590	0.3	11
Network systems/data communications analysts	100	0.1	23

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Social services, n.e.c. (SIC 8390) -- continued:			
Mathematical scientists	100	0.1	(nc)
Statisticians	100	0.1	36
Physical scientists	70	<	(nc)
Environmental scientists and specialists, including health	70	<	22
Social scientists	820	0.4	(nc)
Clinical, counseling, and school psychologists	370	0.2	19
Economists	110	0.1	16
Market research analysts	70	<	24
Survey researchers	270	0.1	34
Technicians	360	0.2	(nc)
Computer, numerical tool, and process control programmers	330	0.2	(nc)
Computer programmers	330	0.2	11
Physical and life science technicians	30	<	(nc)
Environmental science and protection technicians, including health	30	<	44
Museums and art galleries (SIC 8410)			
Scientific and technical personnel	900	1.1	(nc)
Managers of scientific and technical personnel	210	0.3	(nc)
Computer and information systems managers	60	0.1	14
Natural sciences managers	150	0.2	12
Scientists	240	0.3	(nc)
Computer scientists	90	0.1	(nc)
Network and computer systems administrators	40	0.1	13
Network systems/data communications analysts	50	0.1	39
Social scientists	150	0.2	(nc)
Anthropologists and archeologists	40	0.1	23
Market research analysts	110	0.1	16
Engineers	80	0.1	(nc)
Other engineers	80	0.1	(nc)
Environmental	80	0.1	35
Technicians	370	0.5	(nc)
Computer, numerical tool, and process control programmers	140	0.2	(nc)
Computer programmers	140	0.2	12
Engineering technicians	230	0.3	(nc)
All other engineering technicians	230	0.3	(nc)
Audio and video equipment technicians	230	0.3	10

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Botanical and zoological gardens (SIC 8420)			
Scientific and technical personnel	1,110	4.4	(nc)
Managers of scientific and technical personnel	110	0.4	(nc)
Natural sciences managers	110	0.4	9
Scientists	910	3.6	(nc)
Computer scientists	80	0.3	(nc)
Computer systems analysts	40	0.2	39
Network systems/data communications analysts	40	0.2	28
Life scientists	830	3.3	(nc)
Agricultural scientists	70	0.3	19
Conservation scientists	40	0.2	50
Zoologists and wildlife biologists	720	2.8	8
Technicians	90	0.4	(nc)
Computer, numerical tool, and process control programmers	30	0.1	(nc)
Computer programmers	30	0.1	23
Engineering technicians	30	0.1	(nc)
All other engineering technicians	30	0.1	(nc)
Audio and video equipment technicians	30	0.1	23
Physical and life science technicians	30	0.1	(nc)
Biological technicians	30	0.1	23
Business associations (SIC 8610)			
Scientific and technical personnel	3,560	3.1	(nc)
Managers of scientific and technical personnel	890	0.8	(nc)
Computer and information systems managers	830	0.7	7
Engineering managers	60	0.1	42
Scientists	1,950	1.7	(nc)
Computer scientists	1,000	0.9	(nc)
Computer systems analysts	90	0.1	47
Network and computer systems administrators	710	0.6	10
Network systems/data communications analysts	200	0.2	18
Mathematical scientists	30	<	(nc)
Operations and systems researchers and analysts	30	<	26
Social scientists	920	0.8	(nc)
Economists	210	0.2	22
Market research analysts	380	0.3	24
Survey researchers	330	0.3	39
Engineers	30	<	(nc)
Other engineers	30	<	(nc)
Safety	30	<	41

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Business associations (SIC 8610) -- continued:			
Technicians	690	0.6	(nc)
Computer, numerical tool, and process control programmers	630	0.6	(nc)
Computer programmers	630	0.6	9
Physical and life science technicians	60	0.1	(nc)
Agricultural and food science technicians	30	<	49
Environmental science and protection technicians, including health	30	<	43
Professional organizations (SIC 8620)			
Scientific and technical personnel	2,520	3.5	(nc)
Managers of scientific and technical personnel	660	0.9	(nc)
Computer and information systems managers	660	0.9	7
Scientists	1,110	1.6	(nc)
Computer scientists	780	1.1	(nc)
Computer systems analysts	60	0.1	21
Network and computer systems administrators	720	1.0	11
Social scientists	330	0.5	(nc)
Clinical, counseling, and school psychologists	30	<	50
Market research analysts	80	0.1	21
Survey researchers	220	0.3	20
Technicians	750	1.1	(nc)
Computer, numerical tool, and process control programmers	750	1.1	(nc)
Computer programmers	750	1.1	12
Labor organizations (SIC 8630)			
Scientific and technical personnel	870	0.6	(nc)
Managers of scientific and technical personnel	200	0.1	(nc)
Computer and information systems managers	200	0.1	12
Scientists	450	0.3	(nc)
Computer scientists	160	0.1	(nc)
Network and computer systems administrators	160	0.1	11
Social scientists	290	0.2	(nc)
Economists	120	0.1	30
Survey researchers	170	0.1	42
Technicians	220	0.2	(nc)
Computer, numerical tool, and process control programmers	220	0.2	(nc)
Computer programmers	220	0.2	13

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Civic and social associations (SIC 8640)			
Scientific and technical personnel	1,610	0.3	(nc)
Managers of scientific and technical personnel	510	0.1	(nc)
Computer and information systems managers	510	0.1	8
Scientists	650	0.1	(nc)
Computer scientists	360	0.1	(nc)
Computer systems analysts	30	<	25
Network and computer systems administrators	300	0.1	10
Network systems/data communications analysts	30	<	43
Life scientists	160	<	(nc)
Conservation scientists	60	<	24
Zoologists and wildlife biologists	100	<	8
Mathematical scientists	60	<	(nc)
Statisticians	60	<	40
Social scientists	70	<	(nc)
Economists	30	<	45
Survey researchers	40	<	27
Engineers	30	<	(nc)
Civil	30	<	33
Technicians	420	0.1	(nc)
Computer, numerical tool, and process control programmers	210	<	(nc)
Computer programmers	210	<	13
Physical and life science technicians	180	<	(nc)
Environmental science and protection technicians, including health	180	<	27
Surveying, cartographic, photogrammetric, and mapping technicians	30	<	(nc)
Cartographers and photogrammetrists	30	<	25
Political organizations (SIC 8650)			
Scientific and technical personnel	170	1.9	(nc)
Managers of scientific and technical personnel	50	0.5	(nc)
Computer and information systems managers	50	0.5	35
Scientists	90	1.0	(nc)
Social scientists	90	1.0	(nc)
Political scientists	50	0.5	36
Survey researchers	40	0.4	36
Technicians	30	0.3	(nc)
Computer, numerical tool, and process control programmers	30	0.3	(nc)
Computer programmers	30	0.3	16

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Religious organizations (SIC 8660)			
Scientific and technical personnel	600	0.4	(nc)
Scientists	420	0.3	(nc)
Computer scientists	180	0.1	(nc)
Network and computer systems administrators	150	0.1	14
Network systems/data communications analysts	30	<	20
Social scientists	240	0.2	(nc)
Clinical, counseling, and school psychologists	90	0.1	29
Economists	150	0.1	49
Technicians	180	0.1	(nc)
Computer, numerical tool, and process control programmers	180	0.1	(nc)
Computer programmers	180	0.1	14
Membership organizations, n.e.c. (SIC 8690)			
Scientific and technical personnel	840	1.1	(nc)
Scientists	660	0.8	(nc)
Computer scientists	240	0.3	(nc)
Computer systems analysts	40	0.1	26
Network and computer systems administrators	150	0.2	12
Network systems/data communications analysts	50	0.1	27
Life scientists	380	0.5	(nc)
Agricultural scientists	30	<	49
Conservation scientists	240	0.3	22
Zoologists and wildlife biologists	110	0.1	19
Physical scientists	40	0.1	(nc)
Environmental scientists and specialists, including health	40	0.1	43
Technicians	180	0.2	(nc)
Computer, numerical tool, and process control programmers	140	0.2	(nc)
Computer programmers	140	0.2	14
Physical and life science technicians	40	0.1	(nc)
Forest and conservation technicians	40	0.1	34
Engineering and architectural services (SIC 8710)			
Scientific and technical personnel	554,210	53.9	(nc)
Managers of scientific and technical personnel	47,090	4.6	(nc)
Computer and information systems managers	4,450	0.4	7
Engineering managers	42,000	4.1	5
Natural sciences managers	640	0.1	42

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Engineering and architectural services (SIC 8710) -- continued:			
Scientists	62,140	6.0	(nc)
Computer scientists	42,990	4.2	(nc)
Computer and information scientists, research	990	0.1	15
Computer software, applications	13,690	1.3	16
Computer software, systems	13,690	1.3	11
Computer systems analysts	6,890	0.7	13
Network and computer systems administrators	4,860	0.5	9
Network systems/data communications analysts	2,870	0.3	10
Life scientists	510	<	(nc)
Biochemists and biophysicists	100	<	44
Medical scientists, except epidemiologists	30	<	49
Microbiologists	30	<	39
Zoologists and wildlife biologists	350	<	22
Physical scientists	14,440	1.4	(nc)
Atmospheric and space scientists	120	<	31
Chemists	870	0.1	12
Environmental scientists and specialists, including health	7,230	0.7	9
Geoscientists, except hydrologists and geographers	3,960	0.4	9
Hydrologists	1,320	0.1	15
Materials scientists	480	0.1	40
Physicists	460	<	29
Social scientists	4,200	0.4	(nc)
Economists	140	<	35
Geographers	30	<	31
Market research analysts	1,390	0.1	24
Survey researchers	90	<	42
Urban and regional planners	2,550	0.3	12
Engineers	213,780	20.8	(nc)
Aeronautical	2,910	0.3	16
Civil	103,950	10.1	6
Computer	4,160	0.4	36
Electrical/electronics	38,390	3.7	(nc)
Electrical	32,140	3.1	7
Electronics	6,250	0.6	16
Industrial	5,270	0.5	10
Mechanical	31,920	3.1	6
Sales	1,940	0.2	15
Other engineers	25,240	2.5	(nc)
Agricultural	400	<	31
Biomedical	270	<	47
Chemical	2,940	0.3	12
Environmental	12,790	1.2	7
Marine	1,380	0.1	21
Metallurgical/metallurgists	780	0.1	18
Mining and geological	1,310	0.1	19
Nuclear	1,520	0.2	22
Petroleum	1,120	0.1	34
Safety	2,730	0.3	36

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Engineering and architectural services (SIC 8710) -- continued:			
Technicians	231,200	22.5	(nc)
Computer, numerical tool, and process control programmers	6,100	0.6	(nc)
Computer programmers	6,100	0.6	21
Drafters	80,610	7.8	(nc)
Architectural and civil drafters	59,250	5.8	4
Electrical and electronics drafters	7,330	0.7	7
Mechanical drafters	14,030	1.4	6
Engineering technicians	65,360	6.4	(nc)
Aerospace engineering and operations technicians	1,700	0.2	27
Civil engineering technicians	35,530	3.5	6
Electronical/electronics engineering technicians	12,900	1.3	7
Electro-mechanical technicians	1,220	0.1	27
Environmental engineering technicians	5,040	0.5	13
Industrial engineering technicians	550	0.1	23
Mechanical engineering technicians	8,420	0.8	7
Physical and life science technicians	4,250	0.4	(nc)
Biological technicians	230	<	43
Chemical technicians, except health	860	0.1	22
Environmental science and protection technicians, including health	1,700	0.2	14
Geological and petroleum technicians	1,460	0.1	26
Surveying, cartographic, photogrammetric, and mapping technicians	74,880	7.3	(nc)
Cartographers and photogrammetrists	2,610	0.3	12
Surveying and mapping technicians	31,830	3.1	6
Surveyors	40,440	3.9	5
Accounting, auditing, and bookkeeping (SIC 8720)			
Scientific and technical personnel	27,310	4.0	(nc)
Managers of scientific and technical personnel	4,400	0.7	(nc)
Computer and information systems managers	4,280	0.6	12
Engineering managers	120	<	24
Scientists	18,750	2.8	(nc)
Computer scientists	15,720	2.3	(nc)
Computer and information scientists, research	230	<	21
Computer software, applications	3,250	0.5	16
Computer software, systems	2,010	0.3	30
Computer systems analysts	6,230	0.9	13
Network and computer systems administrators	2,990	0.4	7
Network systems/data communications analysts	1,010	0.2	14
Mathematical scientists	2,300	0.3	(nc)
Actuaries	200	<	46
Operations and systems researchers and analysts	2,100	0.3	25
Social scientists	730	0.1	(nc)
Industrial-Organizational psychologists	40	<	36
Market research analysts	690	0.1	22

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Accounting, auditing, and bookkeeping (SIC 8720) -- continued:			
Engineers	340	0.1	(nc)
Electrical/electronics	90	<	(nc)
Electrical	90	<	36
Industrial	70	<	45
Sales	140	<	23
Other engineers	40	<	(nc)
Safety	40	<	36
Technicians	3,820	0.6	(nc)
Computer, numerical tool, and process control programmers	3,140	0.5	(nc)
Computer programmers	3,140	0.5	26
Drafters	80	<	(nc)
Architectural and civil drafters	80	<	47
Engineering technicians	600	0.1	(nc)
Electronical/electronics engineering technicians	600	0.1	38
Research and testing services (SIC 8730)			
Scientific and technical personnel	231,060	35.2	(nc)
Managers of scientific and technical personnel	19,680	3.0	(nc)
Computer and information systems managers	5,030	0.8	6
Engineering managers	7,230	1.1	8
Natural sciences managers	7,420	1.1	8
Scientists	110,860	16.9	(nc)
Computer scientists	22,580	3.4	(nc)
Computer and information scientists, research	3,160	0.5	25
Computer software, applications	5,150	0.8	11
Computer software, systems	5,180	0.8	11
Computer systems analysts	4,240	0.7	10
Network and computer systems administrators	3,100	0.5	9
Network systems/data communications analysts	1,750	0.3	9
Life scientists	27,480	4.2	(nc)
Agricultural scientists	960	0.2	23
Biochemists and biophysicists	5,030	0.8	14
Conservation scientists	130	<	36
Epidemiologists	340	0.1	21
Medical scientists, except epidemiologists	16,530	2.5	18
Microbiologists	2,910	0.4	17
Zoologists and wildlife biologists	1,580	0.2	49
Mathematical scientists	3,910	0.6	(nc)
Mathematicians	610	0.1	29
Operations and systems researchers and analysts	910	0.1	17
Statisticians	2,390	0.4	13

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Research and testing services (SIC 8730) -- continued:			
Physical scientists	30,670	4.7	(nc)
Astronomers	460	0.1	26
Atmospheric and space scientists	1,850	0.3	27
Chemists	17,860	2.7	10
Environmental scientists and specialists, including health	3,820	0.6	9
Geoscientists, except hydrologists and geographers	940	0.1	13
Hydrologists	150	<	17
Materials scientists	1,980	0.3	23
Physicists	3,610	0.6	24
Social scientists	26,220	4.0	(nc)
Anthropologists and archeologists	1,560	0.2	19
Clinical, counseling, and school psychologists	30	<	26
Economists	2,480	0.4	31
Historians	180	<	25
Industrial-Organizational psychologists	130	<	28
Market research analysts	8,620	1.3	16
Political scientists	800	0.1	38
Sociologists	600	0.1	28
Survey researchers	11,720	1.8	12
Urban and regional planners	100	<	30
Engineers	34,840	5.3	(nc)
Aeronautical	2,730	0.4	26
Civil	1,630	0.3	11
Computer	2,170	0.3	20
Electrical/electronics	9,330	1.4	(nc)
Electrical	6,550	1.0	19
Electronics	2,780	0.4	13
Industrial	2,320	0.4	14
Mechanical	5,780	0.9	10
Sales	1,050	0.2	23
Other engineers	9,830	1.5	(nc)
Biomedical	860	0.1	47
Chemical	1,400	0.2	14
Environmental	1,970	0.3	16
Metallurgical/metallurgists	1,490	0.2	16
Nuclear	2,200	0.3	23
Petroleum	160	<	44
Safety	1,750	0.3	21
Technicians	65,680	10.0	(nc)
Computer, numerical tool, and process control programmers	6,720	1.0	(nc)
Computer programmers	6,720	1.0	11
Drafters	1,400	0.2	(nc)
Architectural and civil drafters	340	0.1	14
Electrical and electronics drafters	250	<	16
Mechanical drafters	810	0.1	17

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Research and testing services (SIC 8730) -- continued:			
Engineering technicians	17,530	2.7	(nc)
Aerospace engineering and operations technicians	780	0.1	25
Civil engineering technicians	1,980	0.3	17
Electronical/electronics engineering technicians	6,350	1.0	12
Electro-mechanical technicians	2,000	0.3	21
Environmental engineering technicians	1,950	0.3	20
Industrial engineering technicians	780	0.1	27
Mechanical engineering technicians	3,610	0.6	13
All other engineering technicians	80	<	(nc)
Audio and video equipment technicians	80	<	33
Physical and life science technicians	39,530	6.0	(nc)
Agricultural and food science technicians	3,490	0.5	28
Biological technicians	17,040	2.6	11
Chemical technicians, except health	13,070	2.0	13
Environmental science and protection technicians, including health	4,050	0.6	19
Forensic science technicians	120	<	39
Forest and conservation technicians	170	<	35
Geological and petroleum technicians	1,020	0.2	26
Nuclear technicians	570	0.1	29
Surveying, cartographic, photogrammetric, and mapping technicians	500	0.1	(nc)
Cartographers and photogrammetrists	100	<	28
Surveying and mapping technicians	400	0.1	37
Management and public relations (SIC 8740)			
Scientific and technical personnel	153,070	13.2	(nc)
Managers of scientific and technical personnel	16,050	1.4	(nc)
Computer and information systems managers	8,360	0.7	6
Engineering managers	5,780	0.5	13
Natural sciences managers	1,910	0.2	41
Scientists	78,210	6.8	(nc)
Computer scientists	41,620	3.6	(nc)
Computer and information scientists, research	760	0.1	12
Computer software, applications	9,760	0.8	9
Computer software, systems	5,170	0.5	8
Computer systems analysts	10,500	0.9	13
Network and computer systems administrators	6,830	0.6	16
Network systems/data communications analysts	8,600	0.7	17
Life scientists	910	0.1	(nc)
Agricultural scientists	420	<	29
Biochemists and biophysicists	30	<	36
Conservation scientists	100	<	39
Foresters	100	<	39
Medical scientists, except epidemiologists	30	<	37
Zoologists and wildlife biologists	230	<	35

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Management and public relations (SIC 8740) -- continued:			
Mathematical scientists	6,780	0.6	(nc)
Actuaries	360	<	27
Operations and systems researchers and analysts	3,900	0.3	26
Statisticians	2,520	0.2	43
Physical scientists	13,990	1.2	(nc)
Atmospheric and space scientists	230	<	24
Chemists	890	0.1	24
Environmental scientists and specialists, including health	8,300	0.7	9
Geoscientists, except hydrologists and geographers	3,070	0.3	26
Hydrologists	1,420	0.1	15
Physicists	80	<	36
Social scientists	14,910	1.3	(nc)
Anthropologists and archeologists	460	<	28
Clinical, counseling, and school psychologists	110	<	48
Economists	1,560	0.1	24
Geographers	100	<	29
Historians	90	<	47
Industrial-Organizational psychologists	260	<	47
Market research analysts	9,140	0.8	14
Political scientists	480	<	29
Survey researchers	1,440	0.1	21
Urban and regional planners	1,270	0.1	17
Engineers	23,710	2.0	(nc)
Aeronautical	840	0.1	32
Civil	6,060	0.5	13
Computer	780	0.1	24
Electrical/electronics	2,480	0.2	(nc)
Electrical	1,090	0.1	15
Electronics	1,390	0.1	20
Industrial	2,090	0.2	24
Mechanical	1,510	0.1	19
Sales	1,450	0.1	22
Other engineers	8,500	0.7	(nc)
Agricultural	260	<	47
Chemical	410	<	15
Environmental	5,110	0.4	9
Mining and geological	210	<	46
Nuclear	30	<	49
Safety	2,480	0.2	29
Technicians	35,100	3.0	(nc)
Computer, numerical tool, and process control programmers	16,230	1.4	(nc)
Computer programmers	16,230	1.4	21
Drafters	4,470	0.4	(nc)
Architectural and civil drafters	3,630	0.3	45
Electrical and electronics drafters	170	<	24
Mechanical drafters	670	0.1	18

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Management and public relations (SIC 8740) -- continued:			
Engineering technicians	7,940	0.7	(nc)
Aerospace engineering and operations technicians	220	<	26
Civil engineering technicians	2,370	0.2	23
Electronical/electronics engineering technicians	2,240	0.2	15
Environmental engineering technicians	1,730	0.2	21
Industrial engineering technicians	480	<	37
Mechanical engineering technicians	660	0.1	32
All other engineering technicians	240	<	(nc)
Audio and video equipment technicians	100	<	27
Transportation inspectors	140	<	39
Mathematical technicians	100	<	24
Physical and life science technicians	4,910	0.4	(nc)
Agricultural and food science technicians	900	0.1	35
Biological technicians	360	<	46
Chemical technicians, except health	390	<	24
Environmental science and protection technicians, including health	2,690	0.2	14
Geological and petroleum technicians	540	0.1	31
Nuclear technicians	30	<	19
Surveying, cartographic, photogrammetric, and mapping technicians	1,450	0.1	(nc)
Cartographers and photogrammetrists	370	<	36
Surveying and mapping technicians	580	0.1	29
Surveyors	500	<	31
Services, n.e.c. (SIC 8990)			
Scientific and technical personnel	12,180	22.3	(nc)
Managers of scientific and technical personnel	720	1.3	(nc)
Computer and information systems managers	360	0.7	24
Engineering managers	160	0.3	12
Natural sciences managers	200	0.4	21
Scientists	8,860	16.2	(nc)
Computer scientists	790	1.4	(nc)
Computer software, applications	190	0.4	11
Computer software, systems	130	0.2	15
Computer systems analysts	230	0.4	5
Network and computer systems administrators	150	0.3	11
Network systems/data communications analysts	90	0.2	26
Life scientists	180	0.3	(nc)
Zoologists and wildlife biologists	180	0.3	27
Mathematical scientists	3,110	5.7	(nc)
Actuaries	2,490	4.6	12
Mathematicians	210	0.4	41
Operations and systems researchers and analysts	110	0.2	30
Statisticians	300	0.6	30

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Services, n.e.c. (SIC 8990) -- continued:			
Physical scientists	4,320	7.9	(nc)
Atmospheric and space scientists	920	1.7	10
Chemists	70	0.1	19
Environmental scientists and specialists, including health	1,590	2.9	39
Geoscientists, except hydrologists and geographers	1,360	2.5	14
Hydrologists	260	0.5	17
Physicists	120	0.2	24
Social scientists	460	0.8	(nc)
Anthropologists and archeologists	200	0.4	45
Clinical, counseling, and school psychologists	30	0.1	26
Market research analysts	80	0.2	32
Urban and regional planners	150	0.3	46
Engineers	1,080	2.0	(nc)
Civil	330	0.6	20
Electrical/electronics	30	0.1	(nc)
Electrical	30	0.1	31
Industrial	30	0.1	24
Mechanical	50	0.1	34
Sales	130	0.2	5
Other engineers	510	0.9	(nc)
Environmental	430	0.8	18
Petroleum	40	0.1	9
Safety	40	0.1	46
Technicians	1,520	2.8	(nc)
Computer, numerical tool, and process control programmers	360	0.7	(nc)
Computer programmers	360	0.7	12
Drafters	70	0.1	(nc)
Architectural and civil drafters	70	0.1	24
Engineering technicians	330	0.6	(nc)
Civil engineering technicians	70	0.1	8
Electronical/electronics engineering technicians	100	0.2	11
Environmental engineering technicians	160	0.3	14
Physical and life science technicians	700	1.3	(nc)
Biological technicians	50	0.1	42
Chemical technicians, except health	60	0.1	47
Environmental science and protection technicians, including health	310	0.6	15
Geological and petroleum technicians	240	0.4	14
Nuclear technicians	40	0.1	49
Surveying, cartographic, photogrammetric, and mapping technicians	60	0.1	(nc)
Surveying and mapping technicians	60	0.1	10

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Federal government (SIC 9010)			
Scientific and technical personnel	265,590	10.2	(nc)
Managers of scientific and technical personnel	32,140	1.2	(nc)
Computer and information systems managers	6,340	0.2	<
Engineering managers	13,330	0.5	<
Natural sciences managers	12,470	0.5	<
Scientists	128,680	4.9	(nc)
Computer scientists	53,320	2.0	(nc)
Computer and information scientists, research	3,360	0.1	<
Computer systems analysts	49,320	1.9	<
Network and computer systems administrators	80	<	<
Network systems/data communications analysts	560	<	<
Life scientists	30,090	1.2	(nc)
Agricultural scientists	13,100	0.5	<
Conservation scientists	6,820	0.3	<
Foresters	2,640	0.1	<
Medical scientists, except epidemiologists	2,040	0.1	<
Microbiologists	1,980	0.1	<
Zoologists and wildlife biologists	3,510	0.1	<
Mathematical scientists	9,990	0.4	(nc)
Actuaries	180	<	<
Mathematicians	1,280	0.1	<
Operations and systems researchers and analysts	5,160	0.2	<
Statisticians	3,370	0.1	<
Physical scientists	21,530	0.8	(nc)
Astronomers	440	<	<
Atmospheric and space scientists	2,680	0.1	<
Chemists	5,500	0.2	<
Environmental scientists and specialists, including health	5,230	0.2	<
Geoscientists, except hydrologists and geographers	2,690	0.1	<
Hydrologists	2,240	0.1	<
Materials scientists	110	<	<
Physicists	2,640	0.1	<
Social scientists	13,750	0.5	(nc)
Anthropologists and archeologists	1,040	<	<
Clinical, counseling, and school psychologists	3,440	0.1	<
Economists	3,830	0.2	<
Geographers	430	<	<
Historians	520	<	<
Market research analysts	1,500	0.1	<
Political scientists	2,490	0.1	<
Sociologists	60	<	<
Urban and regional planners	440	<	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Federal government (SIC 9010) -- continued:			
Engineers	63,220	2.4	(nc)
Aeronautical	6,790	0.3	<
Civil	8,910	0.3	<
Computer	2,230	0.1	<
Electrical/electronics	22,940	0.9	(nc)
Electrical	3,790	0.2	<
Electronics	19,150	0.7	<
Industrial	1,260	0.1	<
Mechanical	8,860	0.3	<
Other engineers	12,230	0.5	(nc)
Agricultural	340	<	<
Biomedical	220	<	<
Chemical	1,010	<	<
Environmental	4,450	0.2	<
Marine	770	<	<
Metallurgical/metallurgists	1,080	<	<
Mining and geological	210	<	<
Nuclear	1,810	0.1	<
Petroleum	280	<	<
Safety	2,060	0.1	<
Technicians	41,550	1.6	(nc)
Computer, numerical tool, and process control programmers	70	<	(nc)
Computer programmers	70	<	<
Drafters	230	<	(nc)
Architectural and civil drafters	230	<	<
Engineering technicians	20,980	0.8	(nc)
Electronical/electronics engineering technicians	15,890	0.6	<
Industrial engineering technicians	1,100	<	<
Mechanical engineering technicians	120	<	<
All other engineering technicians	3,870	0.1	(nc)
Broadcast technicians	120	<	<
Transportation inspectors	3,750	0.1	<
Mathematical technicians	60	<	<
Physical and life science technicians	17,270	0.7	(nc)
Biological technicians	6,780	0.3	<
Chemical technicians, except health	110	<	<
Environmental science and protection technicians, including health	390	<	<
Forensic science technicians	70	<	<
Forest and conservation technicians	9,920	0.4	<
Surveying, cartographic, photogrammetric, and mapping technicians	2,940	0.1	(nc)
Cartographers and photogrammetrists	930	<	<
Surveying and mapping technicians	1,620	0.1	<
Surveyors	390	<	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
State government (SIC 9020)			
Scientific and technical personnel	191,500	8.7	(nc)
Managers of scientific and technical personnel	10,620	0.5	(nc)
Computer and information systems managers	4,830	0.2	<
Engineering managers	2,630	0.1	<
Natural sciences managers	3,160	0.1	<
Scientists	80,100	3.6	(nc)
Computer scientists	28,710	1.3	(nc)
Computer software, applications	3,430	0.2	<
Computer software, systems	1,230	0.1	<
Computer systems analysts	14,150	0.6	<
Network and computer systems administrators	4,780	0.2	<
Network systems/data communications analysts	5,120	0.2	<
Life scientists	14,590	0.6	(nc)
Agricultural scientists	720	<	<
Biochemists and biophysicists	280	<	2
Conservation scientists	3,570	0.2	1
Epidemiologists	740	<	1
Foresters	3,160	0.1	<
Medical scientists, except epidemiologists	330	<	<
Microbiologists	1,350	0.1	<
Zoologists and wildlife biologists	4,440	0.2	<
Mathematical scientists	4,350	0.2	(nc)
Actuaries	340	<	<
Operations and systems researchers and analysts	2,390	0.1	<
Statisticians	1,620	0.1	<
Physical scientists	20,800	1.0	(nc)
Atmospheric and space scientists	140	<	<
Chemists	2,320	0.1	1
Environmental scientists and specialists, including health	14,820	0.7	<
Geoscientists, except hydrologists and geographers	1,990	0.1	<
Hydrologists	1,220	0.1	<
Materials scientists	30	<	<
Physicists	280	<	<
Social scientists	11,650	0.5	(nc)
Anthropologists and archeologists	320	<	<
Clinical, counseling, and school psychologists	4,340	0.2	<
Economists	1,810	0.1	<
Historians	330	<	<
Industrial-Organizational psychologists	60	<	<
Market research analysts	600	<	<
Sociologists	80	<	<
Survey researchers	670	<	<
Urban and regional planners	3,440	0.2	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
State government (SIC 9020) -- continued:			
Engineers	39,390	1.8	(nc)
Civil	28,740	1.3	<
Electrical/electronics	1,180	0.1	(nc)
Electrical	830	<	<
Electronics	350	<	<
Industrial	90	<	<
Mechanical	430	<	<
Other engineers	8,950	0.4	(nc)
Agricultural	30	<	<
Environmental	6,830	0.3	<
Marine	70	<	<
Metallurgical/metallurgists	290	<	<
Mining and geological	280	<	<
Petroleum	110	<	<
Safety	1,340	0.1	<
Technicians	61,390	2.8	(nc)
Computer, numerical tool, and process control programmers	8,310	0.4	(nc)
Computer programmers	8,310	0.4	<
Drafters	2,140	0.1	(nc)
Architectural and civil drafters	2,050	0.1	<
Electrical and electronics drafters	90	<	<
Engineering technicians	32,270	1.5	(nc)
Civil engineering technicians	24,040	1.1	<
Electronical/electronics engineering technicians	1,230	0.1	<
Electro-mechanical technicians	50	<	<
Environmental engineering technicians	630	<	<
Mechanical engineering technicians	40	<	<
All other engineering technicians	6,280	0.3	(nc)
Audio and video equipment technicians	550	<	1
Broadcast technicians	410	<	<
Traffic technicians	1,560	0.1	<
Transportation inspectors	3,760	0.2	<
Mathematical technicians	110	<	<
Physical and life science technicians	14,530	0.7	(nc)
Agricultural and food science technicians	1,770	0.1	<
Biological technicians	2,850	0.1	<
Chemical technicians, except health	220	<	<
Environmental science and protection technicians, including health	3,020	0.1	<
Forensic science technicians	2,750	0.1	<
Forest and conservation technicians	3,750	0.2	<
Geological and petroleum technicians	170	<	<
Surveying, cartographic, photogrammetric, and mapping technicians	4,030	0.2	(nc)
Cartographers and photogrammetrists	390	<	<
Surveying and mapping technicians	1,710	0.1	<
Surveyors	1,930	0.1	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Local government (SIC 9030)			
Scientific and technical personnel	174,070	3.6	(nc)
Managers of scientific and technical personnel	13,270	0.3	(nc)
Computer and information systems managers	6,060	0.1	3
Engineering managers	6,190	0.1	5
Natural sciences managers	1,020	<	8
Scientists	71,760	1.5	(nc)
Computer scientists	26,290	0.6	(nc)
Computer and information scientists, research	50	<	31
Computer software, applications	2,800	0.1	21
Computer software, systems	320	<	19
Computer systems analysts	13,330	0.3	6
Network and computer systems administrators	5,670	0.1	5
Network systems/data communications analysts	4,120	0.1	7
Life scientists	4,730	0.1	(nc)
Agricultural scientists	700	<	11
Biochemists and biophysicists	60	<	28
Conservation scientists	1,390	<	8
Epidemiologists	680	<	13
Foresters	920	<	10
Medical scientists, except epidemiologists	200	<	19
Microbiologists	570	<	16
Zoologists and wildlife biologists	210	<	17
Mathematical scientists	900	<	(nc)
Actuaries	80	<	30
Operations and systems researchers and analysts	480	<	18
Statisticians	340	<	30
Physical scientists	11,970	0.3	(nc)
Atmospheric and space scientists	30	<	38
Chemists	1,710	<	8
Environmental scientists and specialists, including health	8,230	0.2	8
Geoscientists, except hydrologists and geographers	1,610	<	26
Hydrologists	320	<	20
Physicists	70	<	26
Social scientists	27,870	0.6	(nc)
Clinical, counseling, and school psychologists	4,700	0.1	10
Economists	730	<	9
Historians	220	<	15
Industrial-Organizational psychologists	30	<	24
Market research analysts	1,560	<	41
Sociologists	230	<	22
Survey researchers	190	<	21
Urban and regional planners	20,210	0.4	5

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Local government (SIC 9030) -- continued:			
Engineers	31,240	0.6	(nc)
Aeronautical	30	<	27
Civil	22,840	0.5	6
Computer	50	<	25
Electrical/electronics	3,460	0.1	(nc)
Electrical	3,100	0.1	13
Electronics	360	<	17
Industrial	170	<	25
Mechanical	980	<	20
Other engineers	3,710	0.1	(nc)
Chemical	110	<	35
Environmental	2,080	<	9
Safety	1,520	<	16
Technicians	57,800	1.2	(nc)
Computer, numerical tool, and process control programmers	9,320	0.2	(nc)
Computer programmers	9,320	0.2	5
Drafters	3,670	0.1	(nc)
Architectural and civil drafters	3,210	0.1	7
Electrical and electronics drafters	410	<	34
Mechanical drafters	50	<	22
Engineering technicians	25,530	0.5	(nc)
Civil engineering technicians	14,020	0.3	5
Electronical/electronics engineering technicians	4,050	0.1	9
Electro-mechanical technicians	460	<	39
Environmental engineering technicians	1,710	<	9
Industrial engineering technicians	260	<	23
Mechanical engineering technicians	250	<	27
All other engineering technicians	4,780	0.1	(nc)
Audio and video equipment technicians	800	<	19
Broadcast technicians	300	<	17
Traffic technicians	2,550	0.1	7
Transportation inspectors	1,130	<	27
Physical and life science technicians	9,340	0.2	(nc)
Agricultural and food science technicians	60	<	31
Biological technicians	170	<	24
Chemical technicians, except health	490	<	15
Environmental science and protection technicians, including health	4,790	0.1	6
Forensic science technicians	2,880	0.1	9
Forest and conservation technicians	830	<	17
Nuclear technicians	120	<	35
Surveying, cartographic, photogrammetric, and mapping technicians	9,940	0.2	(nc)
Cartographers and photogrammetrists	1,070	<	12
Surveying and mapping technicians	6,130	0.1	5
Surveyors	2,740	0.1	7

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Not allocated by industry[3]			
Scientific and technical personnel	209,140	(nc)	(nc)
Managers of scientific and technical personnel	6,100	(nc)	(nc)
Computer and information systems managers	2,420	(nc)	(nc)
Engineering managers	1,740	(nc)	(nc)
Natural sciences managers	1,940	(nc)	(nc)
Scientists	77,310	(nc)	(nc)
Computer scientists	30,890	(nc)	(nc)
Computer and information scientists, research	3,390	(nc)	(nc)
Computer software, applications	8,060	(nc)	(nc)
Computer software, systems	8,200	(nc)	(nc)
Computer systems analysts	4,710	(nc)	(nc)
Network and computer systems administrators	1,300	(nc)	(nc)
Network systems/data communications analysts	5,230	(nc)	(nc)
Life scientists	6,560	(nc)	(nc)
Agricultural scientists	380	(nc)	(nc)
Biochemists and biophysicists	1,260	(nc)	(nc)
Conservation scientists	570	(nc)	(nc)
Epidemiologists	170	(nc)	(nc)
Foresters	630	(nc)	(nc)
Medical scientists, except epidemiologists	1,840	(nc)	(nc)
Microbiologists	1,470	(nc)	(nc)
Zoologists and wildlife biologists	240	(nc)	(nc)
Mathematical scientists	11,470	(nc)	(nc)
Actuaries	870	(nc)	(nc)
Mathematicians	690	(nc)	(nc)
Operations and systems researchers and analysts	7,310	(nc)	(nc)
Statisticians	2,600	(nc)	(nc)
Physical scientists	9,880	(nc)	(nc)
Astronomers	20	(nc)	(nc)
Atmospheric and space scientists	140	(nc)	(nc)
Chemists	3,580	(nc)	(nc)
Environmental scientists and specialists, including health	1,150	(nc)	(nc)
Geoscientists, except hydrologists and geographers	740	(nc)	(nc)
Hydrologists	280	(nc)	(nc)
Materials scientists	3,150	(nc)	(nc)
Physicists	820	(nc)	(nc)

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Not allocated by industry[3] -- continued:			
Social scientists	18,510	(nc)	(nc)
Anthropologists and archeologists	520	(nc)	(nc)
Clinical, counseling, and school psychologists	1,760	(nc)	(nc)
Economists	680	(nc)	(nc)
Geographers	100	(nc)	(nc)
Historians	540	(nc)	(nc)
Industrial-Organizational psychologists	590	(nc)	(nc)
Market research analysts	5,330	(nc)	(nc)
Political scientists	430	(nc)	(nc)
Sociologists	210	(nc)	(nc)
Survey researchers	7,900	(nc)	(nc)
Urban and regional planners	450	(nc)	(nc)
Engineers	49,970	(nc)	(nc)
Aeronautical	550	(nc)	(nc)
Civil	4,580	(nc)	(nc)
Computer	2,360	(nc)	(nc)
Electrical/electronics	6,910	(nc)	(nc)
Electrical	3,060	(nc)	(nc)
Electronics	3,850	(nc)	(nc)
Industrial	7,280	(nc)	(nc)
Mechanical	6,870	(nc)	(nc)
Sales	4,450	(nc)	(nc)
Other engineers	16,970	(nc)	(nc)
Agricultural	840	(nc)	(nc)
Biomedical	910	(nc)	(nc)
Chemical	3,790	(nc)	(nc)
Environmental	2,280	(nc)	(nc)
Marine	1,360	(nc)	(nc)
Metallurgical/metallurgists	2,440	(nc)	(nc)
Mining and geological	1,100	(nc)	(nc)
Nuclear	760	(nc)	(nc)
Petroleum	940	(nc)	(nc)
Safety	2,550	(nc)	(nc)
Technicians	75,760	(nc)	(nc)
Computer, numerical tool, and process control programmers	9,200	(nc)	(nc)
Computer programmers	6,670	(nc)	(nc)
Numerical tool and process control programmers	2,530	(nc)	(nc)
Drafters	9,520	(nc)	(nc)
Architectural and civil drafters	2,930	(nc)	(nc)
Electrical and electronics drafters	2,530	(nc)	(nc)
Mechanical drafters	4,060	(nc)	(nc)

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2000
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity[1]	Relative standard error[2]
Not allocated by industry[3] -- continued:			
Engineering technicians	35,760	(nc)	(nc)
Aerospace engineering and operations technicians	1,210	(nc)	(nc)
Civil engineering technicians	4,550	(nc)	(nc)
Electronical/electronics engineering technicians	3,740	(nc)	(nc)
Electro-mechanical technicians	2,860	(nc)	(nc)
Environmental engineering technicians	1,110	(nc)	(nc)
Industrial engineering technicians	4,510	(nc)	(nc)
Mechanical engineering technicians	9,860	(nc)	(nc)
All other engineering technicians	7,920	(nc)	(nc)
Audio and video equipment technicians	4,410	(nc)	(nc)
Broadcast technicians	970	(nc)	(nc)
Traffic technicians	390	(nc)	(nc)
Transportation inspectors	2,150	(nc)	(nc)
Mathematical technicians	840	(nc)	(nc)
Physical and life science technicians	15,650	(nc)	(nc)
Agricultural and food science technicians	380	(nc)	(nc)
Biological technicians	1,150	(nc)	(nc)
Chemical technicians, except health	7,380	(nc)	(nc)
Environmental science and protection technicians, including health	1,540	(nc)	(nc)
Forensic science technicians	60	(nc)	(nc)
Forest and conservation technicians	440	(nc)	(nc)
Geological and petroleum technicians	3,200	(nc)	(nc)
Nuclear technicians	1,500	(nc)	(nc)
Surveying, cartographic, photogrammetric, and mapping technicians	4,790	(nc)	(nc)
Cartographers and photogrammetrists	760	(nc)	(nc)
Surveying and mapping technicians	2,870	(nc)	(nc)
Surveyors	1,160	(nc)	(nc)

[1] SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

[2] Relative standard error of the estimate of filled positions, expressed as a percentage.

[3] Includes SET and SET managers not reported in a specific industry.

KEY:
- nc = Not computed
- < = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity, and less than 0.5 for percentages when used to characterize relative standard error.
- n.e.c. = Not elsewhere classified.
- SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Total		39.61	1	29.33	1	30.20	1	21.71	1
Agriculture, forestry, and fishing									
Agricultural services	07	<	<	19.82	6	25.54	7	14.49	3
Crop services	072	<	<	26.43	3	28.66	8	13.56	8
Animal services, except veterinary	075	<	<	14.29	9	<	<	12.46	2
Farm labor and management services	076	<	<	<	<	<	<	<	<
Landscape and horticultural services	078	<	<	13.91	5	24.81	5	16.72	3
Mining									
Metal mining	10	42.73	5	28.75	3	29.90	6	19.24	3
Iron ores	101	<	<	<	<	38.87	29	<	<
Copper ores	102	43.00	16	<	<	27.96	6	<	<
Gold and silver ores	104	46.71	9	31.08	4	31.36	4	19.77	3
Metal mining services	108	<	<	30.50	10	<	<	<	<
Misc. metal ores, n.e.c.	109	<	<	<	<	<	<	<	<
Coal mining	12	40.43	5	28.74	8	29.52	2	21.80	5
Bituminous coal and lignite mining	122	38.96	3	25.75	9	29.69	2	21.87	5
Oil and gas extraction	13	49.68	3	38.99	3	38.46	3	21.93	5
Crude petroleum and natural gas	131	54.03	4	42.54	2	40.82	3	25.05	4
Oil and gas field services	138	41.99	4	30.63	6	32.46	5	21.43	8
Nonmetallic minerals, except fuels	14	37.92	4	25.25	4	29.19	5	18.65	5
Crushed and broken stone	142	36.06	5	22.12	4	28.30	6	18.89	7
Sand and gravel	144	34.62	11	<	<	26.49	6	17.63	5
Clay, ceramic, and refractory minerals	145	<	<	<	<	29.43	7	16.38	5
Chemical and fertilizer minerals	147	<	<	<	<	31.74	4	<	<
Misc. nonmetallic minerals	149	<	<	<	<	<	<	<	<
Construction									
General building contractors	15	27.50	10	23.57	5	27.48	3	18.55	4
Residential building construction	152	30.45	4	22.13	4	26.60	5	17.61	6
Operative builders	153	46.89	5	<	<	28.85	5	17.60	5
Nonresidential building excluding building	154	26.34	11	23.03	8	27.57	3	19.48	4
Heavy construction, excluding building	16	39.81	4	25.75	4	32.36	4	19.18	6
Highway and street construction	161	35.30	4	24.37	3	27.04	3	18.04	4
Heavy construction, except highway	162	41.12	4	26.03	5	33.42	4	19.66	7
Special trade contractors	17	32.77	3	25.29	5	27.78	5	19.26	4
Plumbing, heating, air conditioning	171	31.84	4	25.06	3	27.68	5	20.27	4
Painting and paper hanging	172	<	<	<	<	20.62	14	<	<
Electrical work	173	35.60	4	25.71	6	27.54	6	18.32	5
Masonry, stonework, and plastering	174	29.13	5	<	<	28.61	10	20.44	6
Carpentry and floor work	175	27.32	5	<	<	23.17	9	17.41	5
Roofing, siding, and sheet-metal work	176	27.15	8	<	<	24.31	5	19.81	7
Concrete work	177	29.84	11	<	<	26.13	4	16.25	5
Misc. special trade contractors	179	35.33	4	22.54	5	28.21	6	19.26	4

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Total manufacturing									
Food and kindred products	20	37.86	2	27.35	3	28.36	2	17.48	3
Meat products	201	32.97	3	20.88	5	26.60	4	15.97	6
Dairy products	202	34.26	8	23.88	5	27.01	3	16.37	3
Preserved fruits & vegetables	203	38.13	5	28.98	5	26.65	6	18.37	4
Grain mill products	204	39.34	4	26.52	6	28.19	3	18.42	4
Bakery products	205	35.35	5	27.33	7	24.46	5	18.90	7
Sugar and confectionery products	206	40.91	5	24.87	7	29.74	5	16.50	5
Fats and oils	207	41.43	5	25.51	6	29.80	4	16.32	7
Beverages	208	39.32	7	29.67	3	30.35	4	18.90	7
Misc. food and kindred products	209	39.67	5	25.29	5	26.60	5	17.94	5
Tobacco products	21	41.05	13	29.95	5	40.97	9	22.72	10
Cigarettes	211	38.16	16	30.01	6	<	<	22.04	6
Textile mill products	22	32.59	2	25.43	3	26.48	3	18.12	3
Broadwoven fabric mills, cotton	221	32.19	5	<	<	24.60	2	15.85	7
Broadwoven fabric mills, manmade	222	34.41	4	26.37	3	29.39	4	17.30	6
Broadwoven fabric mills, wool	223	<	<	<	<	<	<	17.44	9
Narrow fabric mills	224	29.10	7	<	<	<	<	<	<
Knitting mills	225	30.94	5	25.39	6	23.82	5	20.37	5
Textile finishing, except wool	226	33.73	3	25.53	5	26.79	6	14.71	3
Carpets and rugs	227	32.24	4	25.37	5	26.11	3	21.34	4
Yarn and thread mills	228	29.82	3	<	<	22.67	7	15.04	5
Miscellaneous textile goods	229	34.96	3	26.93	6	27.44	2	18.36	7
Apparel and other textile products	23	34.06	3	28.03	6	25.14	4	22.53	3
Men's & boys' suits and coats	231	<	<	<	<	<	<	<	<
Men's & boys' furnishings	232	34.47	4	22.16	8	24.46	3	24.27	5
Women's and misses' outerwear	233	41.86	6	29.39	6	22.77	15	24.74	7
Women's and children's undergarments	234	<	<	<	<	<	<	<	<
Girls' and children's outerwear	236	<	<	<	<	<	<	<	<
Miscellaneous apparel and accessories	238	29.10	6	28.38	6	24.31	3	21.74	5
Misc. fabricated textile products	239	31.98	4	21.78	3	24.96	3	21.37	4
Lumber and wood products	24	33.18	3	24.58	4	24.94	4	18.52	5
Logging	241	<	<	20.63	4	<	<	17.39	11
Sawmills and planing mills	242	35.29	9	23.60	4	28.86	8	20.49	6
Millwork, plywood & structural members	243	34.13	5	24.03	5	24.90	5	18.55	6
Wood containers	244	<	<	<	<	<	<	<	<
Wood buildings and mobile homes	245	27.16	4	<	<	22.56	13	17.51	6
Miscellaneous wood products	249	30.91	5	22.49	4	24.25	4	19.65	5
Furniture and fixtures	25	33.44	3	23.57	5	24.34	3	18.10	3
Household furniture	251	30.96	3	21.12	4	21.68	3	18.05	5
Office furniture	252	33.56	3	25.50	3	25.63	2	18.58	5
Public building & related furniture	253	37.40	5	23.37	7	24.94	2	19.62	5
Partitions and fixtures	254	32.45	3	24.83	7	25.49	3	17.10	4
Miscellaneous furniture and fixtures	259	33.76	5	22.88	5	25.21	5	19.48	5

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Paper and allied products	26	43.28	7	28.24	4	31.31	4	21.94	3
Pulp mills	261	41.23	4	29.25	3	32.81	6	20.79	8
Paper mills	262	41.78	4	28.32	4	30.04	2	21.37	4
Paperboard mills	263	41.65	4	26.78	5	30.06	4	22.22	11
Paperboard containers and boxes	265	37.16	4	24.27	5	26.82	4	22.02	3
Misc. converted paper products	267	44.96	11	27.60	4	29.46	4	20.59	3
Printing and publishing	27	36.40	2	26.73	2	27.03	3	23.63	2
Newspapers	271	33.83	2	25.90	4	25.95	6	23.49	3
Periodicals	272	39.65	3	26.97	5	31.20	5	25.67	2
Books	273	41.51	5	23.30	3	26.82	4	25.80	2
Miscellaneous publishing	274	38.29	4	28.93	4	29.53	5	23.20	4
Commercial printing	275	33.42	2	24.48	3	26.86	3	22.60	3
Manifold business forms	276	31.34	4	25.14	7	<	<	23.75	4
Greeting cards	277	33.32	7	23.74	4	<	<	<	<
Blankbooks and bookbinding	278	42.31	14	27.91	4	26.16	7	19.62	6
Printing trade services	279	35.41	3	26.71	5	<	<	27.63	7
Chemicals and allied products	28	44.49	2	28.49	3	31.21	2	19.84	2
Industrial inorganic chemicals	281	40.45	3	26.78	3	31.25	4	20.13	5
Plastics materials and synthetics	282	42.38	3	30.26	4	32.15	2	20.69	3
Drugs	283	47.03	4	28.43	4	30.64	4	19.00	3
Soap, cleaners, and toilet goods	284	45.37	7	26.21	5	30.48	3	19.08	3
Paints and allied products	285	38.07	3	24.69	4	29.58	4	17.24	3
Industrial organic chemicals	286	42.75	3	31.19	5	32.40	2	21.52	5
Agricultural chemicals	287	41.00	6	26.60	4	29.00	5	19.87	4
Miscellaneous chemical products	289	41.23	4	26.62	2	29.92	3	19.84	4
Petroleum and coal products	29	41.14	4	30.04	4	33.08	2	21.95	5
Petroleum refining	291	42.54	4	30.55	4	33.51	2	22.73	5
Asphalt paving and roofing materials	295	30.70	8	24.67	8	27.45	5	15.34	5
Misc. petroleum and coal products	299	<	<	25.95	4	30.64	9	17.22	3
Rubber and misc. plastics products	30	34.94	1	24.72	3	26.77	2	18.21	2
Tires and inner tubes	301	36.86	4	23.73	5	27.47	2	21.66	4
Hose & belting & gaskets & packing	305	34.89	2	23.75	5	25.78	3	17.18	7
Fabricated rubber products, n.e.c.	306	35.03	2	24.99	3	25.87	2	17.41	4
Miscellaneous plastics products, n.e.c.	308	34.77	2	24.74	4	26.98	2	18.11	3
Leather and leather products	31	37.26	5	24.81	5	23.37	4	22.50	4
Leather tanning and finishing	311	<	<	<	<	<	<	16.90	5
Footwear, except rubber	314	34.65	5	25.91	7	<	<	26.12	5
Luggage	316	<	<	<	<	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Stone, clay and glass products	32	35.52	2	25.92	3	27.21	2	18.62	3
Flat glass	321	<	<	<	<	26.95	7	<	<
Glass and glassware, pressed or blown	322	39.75	4	27.94	4	29.32	4	19.36	5
Products of purchased glass	323	38.00	4	27.95	4	26.55	3	20.06	6
Cement, hydraulic	324	35.19	10	22.43	3	28.51	4	18.99	5
Structural clay products	325	29.74	6	<	<	24.79	3	14.83	6
Pottery and related products	326	35.17	3	<	<	27.40	4	17.89	5
Concrete, gypsum, and plaster products	327	32.60	6	25.98	5	24.82	4	17.08	5
Cut stone and stone products	328	<	<	<	<	<	<	<	<
Misc. nonmetallic mineral products	329	36.17	4	26.27	5	28.30	3	19.02	4
Primary metal industries	33	36.48	2	26.58	3	27.61	2	18.95	3
Blast furnace and basic steel products	331	34.61	3	25.44	4	26.83	2	19.52	5
Iron and steel foundries	332	36.31	3	28.43	6	26.48	4	18.31	4
Primary nonferrous metals	333	38.63	6	27.46	5	27.47	4	18.94	5
Secondary nonferrous metals	334	<	<	19.93	4	26.20	5	15.96	7
Nonferrous rolling and drawing	335	38.34	3	27.76	4	29.68	4	18.91	3
Nonferrous foundries (castings)	336	34.51	3	23.17	5	26.21	3	18.30	4
Miscellaneous primary metal products	339	35.26	4	<	<	25.67	4	16.13	5
Fabricated metal products	34	34.41	1	25.75	3	26.98	2	18.82	3
Metal cans and shipping containers	341	39.73	3	30.99	4	31.60	6	20.02	4
Cutlery, hand tools, and hardware	342	34.06	2	25.22	4	25.85	3	18.57	3
Plumbing and heating, except electric	343	34.26	3	<	<	26.23	3	18.33	5
Fabricated structural metal products	344	31.79	2	26.31	5	26.67	3	18.27	4
Screw machine products, bolts, etc.	345	33.17	2	25.68	3	25.52	2	18.22	4
Metal forgings and stampings	346	37.89	2	25.70	3	27.64	3	20.07	3
Metal services, n.e.c.	347	32.18	4	19.85	5	25.90	6	17.31	5
Ordnance and accessories, n.e.c.	348	39.18	3	28.51	6	28.55	3	21.68	4
Misc. fabricated metal products	349	35.01	2	24.64	4	25.76	2	18.37	4
Industrial machinery and equipment	35	40.27	2	33.84	2	29.11	2	21.81	2
Engines and turbines	351	39.94	5	27.95	4	27.21	5	20.53	4
Farm and garden machinery	352	33.88	4	25.48	4	25.47	4	17.42	5
Construction and related machinery	353	35.25	2	26.87	3	26.76	2	18.69	3
Metalworking machinery	354	35.13	2	26.35	4	25.99	4	20.07	3
Special industry machinery	355	37.88	2	30.16	4	28.42	4	19.92	3
General industrial machinery	356	35.94	1	27.81	3	27.18	2	18.79	2
Computer and office equipment	357	49.49	3	35.33	2	34.66	3	27.92	3
Refrigeration and service machinery	358	34.05	2	25.95	3	26.20	2	17.72	3
Industrial machinery, n.e.c.	359	32.46	3	24.28	5	25.71	3	19.20	5

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Electronic & other electric equipment	36	43.56	1	29.71	3	30.73	2	19.05	4
Electric distribution equipment	361	37.76	3	26.59	5	26.66	2	18.04	3
Electrical industrial apparatus	362	37.98	2	28.84	4	27.57	3	17.90	3
Household appliances	363	36.70	5	26.13	7	26.34	6	19.10	4
Electric lighting and wiring equipment	364	39.25	2	29.10	7	27.86	3	18.90	5
Household audio and video equipment	365	43.26	5	30.15	7	30.16	7	17.62	4
Communication equipment	366	44.79	2	33.62	4	32.11	3	20.07	5
Electronic components and accessories	367	45.59	2	33.98	3	31.92	3	18.84	3
Misc. electrical equipment & supplies	369	38.51	3	28.99	6	28.27	3	18.10	5
Transportation equipment	37	43.15	2	29.80	3	31.11	2	23.07	4
Motor vehicles and equipment	371	42.57	2	28.83	5	29.65	2	22.43	7
Aircraft and parts	372	43.15	3	30.39	3	32.00	2	24.09	3
Ship and boat building and repairing	373	36.65	3	24.64	5	23.60	6	16.88	6
Railroad equipment	374	36.30	5	24.31	4	28.22	4	17.71	4
Motorcycles, bicycles, and parts	375	37.39	3	<	<	26.11	3	19.82	5
Guided missiles, space vehicles, parts	376	47.84	6	28.53	5	32.41	3	23.17	5
Miscellaneous transportation equipment	379	33.04	4	27.27	6	25.49	5	20.80	6
Instruments and related products	38	43.62	1	29.20	3	32.26	2	21.73	4
Search and navigation equipment	381	44.43	2	33.01	4	33.31	3	20.50	4
Measuring and controlling devices	382	44.05	2	32.20	2	31.12	3	19.33	2
Medical instruments and supplies	384	41.70	3	28.23	4	29.69	2	19.66	3
Ophthalmic goods	385	40.98	5	28.95	8	32.40	3	20.67	4
Photographic equipment and supplies	386	41.91	5	32.82	6	32.62	3	20.67	8
Watches, clocks, watchcases & parts	387	<	<	<	<	26.37	3	<	<
Miscellaneous manufacturing industries	39	35.65	2	27.03	3	26.60	3	18.65	4
Jewelry, silverware, and plated ware	391	38.15	7	25.83	7	27.76	4	26.10	6
Musical instruments	393	<	<	31.88	6	27.13	4	20.33	9
Toys and sporting goods	394	35.16	3	27.29	5	26.55	4	19.34	4
Pens, pencils, office, & art supplies	395	33.82	5	25.38	5	24.98	3	18.14	5
Costume jewelry and notions	396	<	<	<	<	<	<	<	<
Miscellaneous manufactures	399	35.96	4	27.07	5	26.74	5	17.99	6
Transportation, communications, and utilities									
Railroad transportation	40	39.95	4	29.03	3	29.01	4	19.92	4
Railroad transportation	401	39.95	4	29.03	3	29.01	4	19.92	4
Local and interurban transit	41	28.04	6	22.05	3	<	<	16.46	9
Local and suburban transportation	411	29.98	6	22.78	3	<	<	26.38	8
Bus charter service	414	<	<	<	<	<	<	<	<
School buses	415	<	<	<	<	<	<	8.09	2
Trucking and warehousing	42	33.31	6	25.17	3	24.64	4	20.74	2
Trucking and courier services, excl. air	421	34.00	9	24.42	4	23.58	5	20.85	3
Public warehousing and storage	422	31.54	3	27.19	5	<	<	23.13	3
Trucking terminal facilities	423	<	<	<	<	<	<	10.27	8
Water transportation	44	38.33	3	26.58	5	29.61	4	26.36	4
Deep sea foreign transportation of freight	441	38.58	5	29.33	5	<	<	30.27	4
Deep sea domestic transportation of freight	442	39.73	3	26.25	5	35.87	7	28.92	5
Water transportation of freight, n.e.c.	444	<	<	<	<	31.64	9	<	<
Water transportation of passengers	448	33.72	8	<	<	<	<	<	<
Water transportation services	449	38.31	7	<	<	28.50	6	20.69	7

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Transportation by air	45	38.53	3	27.61	3	26.57	4	23.13	3
Air transportation, scheduled	451	38.78	3	27.78	2	26.45	3	24.00	3
Air transportation, nonscheduled	452	<	<	<	<	<	<	22.99	8
Airports, flying fields, and services	458	37.60	5	24.51	6	28.19	4	19.70	5
Pipelines, except natural gas	46	41.22	5	31.68	6	33.25	4	27.26	6
Pipelines, except natural gas	461	41.22	5	<	<	33.25	4	27.26	6
Transportation services	47	34.71	3	24.04	5	26.99	5	20.64	6
Passenger transportation arrangements	472	31.81	6	23.16	5	32.03	5	23.62	4
Freight transportation arrangements	473	38.03	3	26.14	7	23.70	7	22.97	3
Rental of railroad cars	474	<	<	<	<	<	<	<	<
Misc. transportation services	478	<	<	<	<	23.24	8	15.82	12
Communications	48	36.30	1	29.06	3	29.01	2	18.76	3
Telephone communications	481	36.87	1	29.50	3	29.04	2	22.99	2
Telegraph and other communications	482	39.93	4	31.97	5	<	<	30.58	12
Radio and television broadcasting	483	31.66	4	25.61	5	28.02	6	15.51	4
Cable and other pay TV services	484	37.10	3	24.79	4	28.99	4	16.96	4
Communications services, n.e.c.	489	36.98	5	29.38	7	29.83	5	20.92	5
Utilities and sanitary services	49	39.51	2	28.77	3	33.58	2	24.37	2
Electric services	491	38.66	2	28.89	3	33.56	2	24.35	2
Gas production and distribution	492	40.34	4	28.28	4	32.03	4	23.18	4
Combination utility services	493	41.45	3	30.24	3	33.30	2	26.14	3
Water supply	494	33.66	4	21.82	7	30.19	3	19.55	5
Sanitary services	495	42.30	3	25.03	9	32.21	3	20.15	8
Steam and air-conditioning supply	496	<	<	<	<	<	<	<	<
Wholesale trade									
Wholesale trade, durable goods	50	42.76	1	30.68	3	30.02	2	24.53	2
Motor vehicles, parts, and supplies	501	39.43	3	26.04	6	30.18	3	24.11	5
Furniture and homefurnishings	502	34.36	5	25.10	5	20.96	12	27.21	4
Lumber and construction materials	503	36.02	4	25.65	5	25.87	9	19.97	5
Professional and commercial equipment	504	45.30	2	31.32	3	29.01	4	27.40	2
Metals and minerals, except petroleum	505	35.91	5	26.62	8	25.82	5	20.26	3
Electrical goods	506	43.25	3	30.55	4	32.01	3	21.38	3
Hardware, plumbing, and heating equipment	507	37.57	4	24.02	5	29.07	5	21.33	5
Machinery, equipment, and supplies	508	36.95	2	25.83	4	28.15	4	21.20	4
Miscellaneous durable goods	509	35.86	5	26.58	8	25.56	4	21.49	5
Wholesale trade, nondurable goods	51	39.11	3	27.76	4	28.84	6	23.93	3
Paper and paper products	511	39.78	4	28.12	7	24.91	8	24.90	3
Drugs, proprietaries, and sundries	512	44.37	5	29.78	3	31.02	7	26.69	3
Apparel, piece goods, and notions	513	43.04	8	27.74	5	28.99	5	31.06	4
Groceries and related products	514	35.74	5	27.69	5	24.24	8	24.22	3
Farm-product raw materials	515	36.88	3	21.86	6	<	<	25.58	3
Chemicals and allied products	516	40.73	5	29.81	11	29.50	9	22.70	6
Petroleum and petroleum products	517	36.92	5	26.44	7	31.45	7	19.89	13
Beer, wine, and distilled beverages	518	32.81	5	23.67	6	<	<	27.61	3
Misc. nondurable goods	519	36.22	3	25.61	5	32.52	3	23.40	7

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Retail trade									
Building materials and garden supplies	52	29.97	11	22.38	16	15.66	9	19.54	4
Lumber and other building materials	521	30.22	12	22.46	16	15.68	9	18.97	5
Hardware stores	525	<	<	<	<	<	<	<	<
Retail nurseries and garden stores	526	<	<	<	<	<	<	<	<
General merchandise stores	53	36.66	7	28.01	5	32.03	3	22.99	3
Department stores	531	36.97	7	28.21	4	32.03	3	23.00	4
Variety stores	533	<	<	<	<	<	<	27.04	4
Misc. general merchandise stores	539	<	<	<	<	<	<	<	<
Food stores	54	26.95	4	24.59	4	21.12	4	21.67	3
Grocery stores	541	26.43	5	24.68	4	22.12	4	21.51	3
Miscellaneous food stores	549	<	<	<	<	<	<	23.65	13
Automotive dealers and service stations	55	28.13	4	22.50	5	18.94	9	20.14	5
New and used car dealers	551	27.20	6	21.09	5	18.85	9	23.98	6
Auto and home supply stores	553	30.00	9	29.53	9	<	<	25.62	4
Gasoline service stations	554	27.95	6	22.22	6	<	<	29.22	15
Boat dealers	555	<	<	<	<	<	<	<	<
Automotive dealers, n.e.c.	559	<	<	<	<	<	<	<	<
Apparel and accessory stores	56	35.06	4	25.11	4	<	<	25.51	3
Men's and boys' clothing stores	561	<	<	<	<	<	<	30.08	6
Women's clothing stores	562	30.94	6	24.91	5	<	<	27.47	5
Women's accessory and specialty stores	563	<	<	<	<	<	<	<	<
Family clothing stores	565	33.61	5	22.83	5	<	<	24.47	6
Shoe stores	566	37.18	9	23.24	7	<	<	25.04	3
Misc. apparel and accessory stores	569	<	<	<	<	<	<	<	<
Furniture and homefurnishings stores	57	37.09	5	27.81	5	25.69	3	25.80	3
Furniture and homefurnishings stores	571	27.42	5	21.99	5	<	<	25.84	8
Radio, television, and computer stores	573	39.08	5	27.96	5	29.74	5	25.82	3
Eating and drinking places	58	29.89	14	25.50	6	<	<	<	<
Eating and drinking places	581	29.89	14	25.50	6	<	<	<	<
Misc. retail stores	59	37.72	3	26.50	3	26.61	12	25.40	2
Drug stores and proprietary stores	591	34.23	6	26.05	5	<	<	25.17	4
Used merchandise stores	593	<	<	<	<	<	<	<	<
Miscellaneous shopping goods stores	594	37.81	6	27.73	6	27.12	5	26.34	3
Nonstore retailers	596	38.66	4	26.05	4	25.00	4	25.65	5
Fuel dealers	598	<	<	<	<	<	<	<	<
Retail stores, n.e.c.	599	37.20	4	26.90	7	27.75	7	24.91	4
Finance, insurance, and real estate									
Depository institutions	60	37.76	3	28.63	4	32.47	3	29.09	2
Central reserve depositories	601	38.69	4	29.71	6	<	<	30.27	3
Commercial banks	602	39.71	4	29.08	5	31.79	4	29.32	2
Savings institutions	603	35.04	3	24.87	4	<	<	27.60	3
Credit unions	606	26.90	2	20.04	3	<	<	24.93	5
Foreign banks and branches and agencies	608	50.08	7	26.09	5	<	<	27.54	3
Functions closely related to banking	609	35.10	4	26.69	6	<	<	27.67	4
Nondepository institutions	61	40.78	4	27.57	3	33.43	3	28.31	3
Federal and federally sponsored credit	611	41.10	7	28.34	4	<	<	27.36	5
Personal credit institutions	614	42.01	5	26.08	4	<	<	31.03	7
Business credit institutions	615	41.24	3	29.25	4	32.97	4	28.39	5
Mortgage bankers and brokers	616	38.76	5	27.25	6	<	<	26.46	4

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Security and commodity brokers	62	43.45	3	31.79	4	31.57	5	33.21	2
Security brokers and dealers	621	44.06	4	32.07	5	32.92	3	33.60	3
Commodity contracts, brokers, and dealers	622	45.81	8	32.85	8	<	<	24.04	4
Security and commodity exchanges	623	<	<	33.46	13	<	<	<	<
Security and commodity services	628	41.94	5	30.79	6	<	<	32.87	4
Insurance carriers	63	40.46	1	28.36	2	27.80	4	27.45	1
Life insurance	631	40.86	2	28.03	3	31.61	4	27.42	2
Medical service and health insurance	632	40.51	2	27.11	2	25.23	3	27.72	2
Fire, marine, and casualty insurance	633	40.85	3	30.02	3	26.41	4	27.40	2
Surety insurance	635	40.89	4	27.58	9	<	<	29.66	4
Title insurance	636	36.66	6	27.16	4	<	<	20.84	4
Pension, health, and welfare funds	637	36.22	3	31.96	8	<	<	28.98	5
Insurance carriers, n.e.c.	639	<	<	<	<	<	<	<	<
Insurance agents, brokers, and service	64	34.25	3	27.12	4	28.15	3	26.40	2
Insurance agents, brokers, and service	641	34.25	3	27.12	4	28.15	3	26.40	2
Real estate	65	34.29	2	24.48	7	24.82	5	24.82	6
Real estate operators and lessors	651	33.21	4	24.09	5	<	<	24.45	4
Real estate agents and managers	653	35.74	3	24.85	9	25.36	4	27.66	6
Title abstract offices	654	31.99	10	22.03	6	<	<	<	<
Subdividers and developers	655	39.34	9	24.88	15	29.39	7	21.25	12
Holding and other investment offices	67	39.58	4	28.14	5	32.48	10	25.77	6
Holding offices	671	39.32	5	28.78	4	31.78	9	25.83	6
Investment offices	672	41.16	6	27.39	6	<	<	30.27	4
Trusts	673	30.74	3	21.97	8	<	<	15.25	8
Misc. investing	679	43.89	7	32.04	6	39.53	19	30.25	5
Services									
Hotels and other lodging places	70	35.88	4	22.80	3	21.47	8	17.44	5
Hotels and motels	701	35.93	4	22.90	3	21.49	8	17.35	5
Personal services	72	33.50	4	22.48	12	<	<	26.50	5
Laundry, cleaning, and garment services	721	<	<	<	<	<	<	25.78	6
Photographic studios, portrait	722	<	<	<	<	<	<	<	<
Beauty shops	723	<	<	<	<	<	<	<	<
Funeral service and crematories	726	33.85	5	<	<	<	<	24.56	6
Misc. personal services	729	<	<	19.95	12	<	<	29.44	7
Business services	73	43.06	2	32.57	2	32.92	4	29.03	2
Advertising	731	41.69	3	29.68	3	35.94	9	25.03	4
Credit reporting and collection	732	35.45	3	24.91	5	<	<	24.51	3
Mailing, reproduction, and stenographic	733	36.03	2	28.20	5	23.55	5	24.90	3
Services to buildings	734	30.81	6	<	<	28.50	6	17.90	8
Misc. equipment rental and leasing	735	37.28	4	26.80	5	30.49	4	19.31	6
Personnel supply services	736	38.50	3	29.90	6	35.32	6	23.97	6
Computer and data processing services	737	43.80	2	32.83	2	32.05	3	30.43	2
Misc. business services	738	34.77	4	26.83	4	24.87	6	22.47	3
Auto repair, services, and parking	75	33.72	6	27.93	7	27.68	5	20.82	10
Automobile rentals, no drivers	751	33.24	6	26.08	5	31.22	22	27.85	5
Automobile repair shops	753	<	<	29.27	10	26.46	6	24.13	14
Automobile services, except repair	754	<	<	<	<	<	<	9.08	12

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Misc. repair services	76	31.23	4	23.52	4	28.05	4	17.68	4
Electrical repair shops	762	<	<	23.63	5	26.08	6	17.65	5
Misc. repair shops	769	30.00	4	24.22	4	29.36	5	17.70	6
Motion pictures	78	47.51	8	29.33	3	30.59	5	22.13	6
Motion picture production and services	781	48.75	8	29.64	3	30.54	5	22.34	6
Motion picture distribution and services	782	35.32	6	23.27	7	<	<	20.38	4
Motion picture theaters	783	<	<	<	<	<	<	11.07	8
Video tape rental	784	<	<	<	<	<	<	15.00	10
Amusement and recreation services	79	33.77	6	21.42	7	30.49	7	17.47	4
Producers, orchestras, and entertainers	792	39.30	9	20.14	7	<	<	17.52	5
Commercial sports	794	<	<	18.97	8	39.64	9	17.94	7
Misc. amusement, recreation services	799	31.85	6	21.36	7	24.31	5	16.24	6
Health services	80	33.08	1	25.13	2	23.55	5	20.93	2
Offices and clinics of medical doctors	801	31.50	3	23.99	5	22.03	3	16.23	13
Offices and clinics of dentists	802	<	<	<	<	<	<	<	<
Offices of other health practitioners	804	33.61	5	26.90	5	<	<	<	<
Nursing and personal care facilities	805	28.12	4	21.94	6	<	<	<	<
Hospitals	806	34.07	2	25.46	2	23.58	3	21.35	2
Medical and dental laboratories	807	35.42	7	27.62	13	23.45	10	15.82	4
Home health care services	808	28.56	3	25.13	9	<	<	23.00	7
Health and allied services, n.e.c.	809	31.12	5	22.10	3	<	<	23.39	3
Legal services	81	37.33	3	27.83	3	<	<	27.30	3
Legal services	811	37.33	3	27.83	3	<	<	27.30	3
Educational services	82	31.95	2	24.29	3	20.83	4	20.29	1
Elementary and secondary schools	821	31.73	2	24.94	3	<	<	21.26	2
Colleges, universities, and professional	822	31.97	2	23.04	3	<	<	19.82	1
Libraries	823	30.39	5	22.80	6	<	<	<	<
Vocational schools	824	30.68	4	26.30	11	20.78	3	22.36	6
Schools and educational services, n.e.c.	829	33.46	8	27.16	15	<	<	23.03	6
Social services	83	25.74	2	20.12	3	<	<	19.65	2
Individual and family services	832	25.42	3	20.09	3	<	<	18.23	3
Job training and related services	833	23.12	3	20.07	4	<	<	21.11	5
Child day care services	835	22.40	4	21.73	6	<	<	16.31	5
Residential care	836	27.03	3	19.70	5	<	<	20.22	4
Social services, n.e.c.	839	27.24	4	20.54	6	<	<	22.07	5
Museums, botanical, zoological gardens	84	25.91	5	17.69	5	21.79	6	17.98	5
Museums and art galleries	841	26.27	7	21.15	7	22.09	6	19.07	6
Botanical and zoological gardens	842	23.68	4	16.37	6	<	<	13.78	6
Membership organizations	86	30.31	2	23.53	4	27.28	3	21.64	3
Business associations	861	30.06	3	23.44	8	<	<	24.90	3
Professional organizations	862	34.96	3	24.00	6	<	<	27.08	2
Labor organizations	863	31.94	3	22.08	9	<	<	26.89	4
Civic and social associations	864	25.08	3	20.41	5	<	<	16.31	6
Political organizations	865	21.52	7	20.99	10	<	<	<	<
Religious organizations	866	<	<	21.13	8	<	<	21.73	5
Membership organizations, n.e.c.	869	<	<	21.84	6	<	<	22.07	4

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		$	RSE	$	RSE	$	RSE	$	RSE
Engineering and management services	87	40.43	1	28.18	4	29.81	2	18.49	3
Engineering and architectural services	871	40.20	1	30.30	7	29.35	2	17.74	2
Accounting, auditing, and bookkeeping	872	39.91	5	28.54	5	31.56	7	26.38	5
Research and testing services	873	42.72	3	27.03	6	33.25	4	17.68	4
Management and public relations	874	38.47	3	28.40	5	29.07	4	23.61	7
Services, n.e.c.	89	36.63	9	29.69	7	28.14	7	19.75	5
Services, n.e.c.	899	36.63	9	29.69	7	28.14	7	19.75	5
Public administration									
Federal, state, and local government	90	35.17	<	25.83	1	29.80	1	18.96	1
Federal government	901	37.66	1	29.53	1	33.07	1	20.83	1
State government	902	30.65	1	22.21	1	26.41	1	17.38	1
Local government	903	32.73	1	23.26	2	27.54	2	19.29	2

KEY: RSE = Relative standard error of the mean hourly wage, expressed as a percentage.
< = Too few cases to estimate or RSE less than 0.5 percent.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Two-digit SIC information incorporates information for all 3-digit industries, including those 3-digit industries not displayed separately. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Total		82,385	61,011	62,815	45,739
Agriculture, forestry, and fishing					
Agricultural services	07	<	41,225	53,119	30,139
Crop services	072	<	54,970	59,626	28,210
Animal services, except veterinary	075	<	29,710	<	25,934
Farm labor and management services	076	<	<	<	<
Landscape and horticultural services	078	<	28,930	51,600	34,770
Mining					
Metal mining	10	88,880	59,797	62,181	40,021
Iron ores	101	<	<	80,857	<
Copper ores	102	89,440	<	58,165	<
Gold and silver ores	104	97,160	64,650	65,220	41,126
Metal mining services	108	<	63,430	<	<
Misc. metal ores, n.e.c.	109	<	<	<	<
Coal mining	12	84,091	59,781	61,397	45,346
Bituminous coal and lignite mining	122	81,035	53,555	61,748	45,489
Oil and gas extraction	13	103,341	81,108	79,984	45,606
Crude petroleum and natural gas	131	112,370	88,485	84,895	52,112
Oil and gas field services	138	87,331	63,699	67,509	44,578
Nonmetallic minerals, except fuels	14	78,870	52,523	60,722	38,795
Crushed and broken stone	142	74,993	46,003	58,877	39,292
Sand and gravel	144	72,010	<	55,093	36,661
Clay, ceramic, and refractory minerals	145	<	<	61,210	34,065
Chemical and fertilizer minerals	147	<	<	66,010	<
Misc. nonmetallic minerals	149	<	<	<	<
Construction					
General building contractors	15	57,194	49,019	57,145	38,594
Residential building construction	152	63,333	46,037	55,331	36,636
Operative builders	153	97,530	<	60,000	36,616
Nonresidential building excluding building	154	54,781	47,900	57,361	40,525
Heavy construction, excluding building	16	82,808	53,552	67,307	39,887
Highway and street construction	161	73,420	50,680	56,234	37,527
Heavy construction, except highway	162	85,511	54,148	69,511	40,902
Special trade contractors	17	68,169	52,603	57,785	40,062
Plumbing, heating, air conditioning	171	66,230	52,130	57,584	42,160
Painting and paper hanging	172	<	<	42,890	<
Electrical work	173	74,052	53,470	57,273	38,094
Masonry, stonework, and plastering	174	60,590	<	59,499	42,510
Carpentry and floor work	175	56,820	<	48,185	36,220
Roofing, siding, and sheet-metal work	176	56,470	<	50,574	41,200
Concrete work	177	62,060	<	54,342	33,797
Misc. special trade contractors	179	73,480	46,893	58,688	40,061

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Total manufacturing					
Food and kindred products	20	78,750	56,876	58,988	36,368
Meat products	201	68,583	43,434	55,315	33,220
Dairy products	202	71,259	49,677	56,190	34,051
Preserved fruits & vegetables	203	79,305	60,277	55,421	38,218
Grain mill products	204	81,818	55,156	58,646	38,306
Bakery products	205	73,527	56,829	50,869	39,317
Sugar and confectionery products	206	85,085	51,727	61,858	34,325
Fats and oils	207	86,180	53,063	61,987	33,948
Beverages	208	81,777	61,715	63,127	39,310
Misc. food and kindred products	209	82,519	52,595	55,340	37,302
Tobacco products	21	85,374	62,284	85,220	47,256
Cigarettes	211	79,370	62,418	<	45,850
Textile mill products	22	67,790	52,893	55,072	37,695
Broadwoven fabric mills, cotton	221	66,954	<	51,160	32,969
Broadwoven fabric mills, manmade	222	71,561	54,851	61,127	35,988
Broadwoven fabric mills, wool	223	<	<	<	36,275
Narrow fabric mills	224	60,510	<	<	<
Knitting mills	225	64,362	52,814	49,556	42,370
Textile finishing, except wool	226	70,155	53,112	55,730	30,599
Carpets and rugs	227	67,052	52,764	54,307	44,399
Yarn and thread mills	228	62,014	<	47,150	31,280
Miscellaneous textile goods	229	72,720	56,002	57,065	38,195
Apparel and other textile products	23	70,843	58,302	52,272	46,859
Men's & boys' suits and coats	231	<	<	<	<
Men's & boys' furnishings	232	71,700	46,081	50,870	50,485
Women's and misses' outerwear	233	87,078	61,142	47,350	51,465
Women's and children's undergarments	234	<	<	<	<
Girls' and children's outerwear	236	<	<	<	<
Miscellaneous apparel and accessories	238	60,530	59,030	50,570	45,220
Misc. fabricated textile products	239	66,517	45,300	51,924	44,456
Lumber and wood products	24	69,012	51,120	51,876	38,510
Logging	241	<	42,900	<	36,176
Sawmills and planing mills	242	73,413	49,089	60,033	42,627
Millwork, plywood & structural members	243	71,005	49,982	51,789	38,583
Wood containers	244	<	<	<	<
Wood buildings and mobile homes	245	56,500	<	46,920	36,423
Miscellaneous wood products	249	64,290	46,774	50,451	40,865
Furniture and fixtures	25	69,563	49,028	50,614	37,651
Household furniture	251	64,390	43,926	45,097	37,545
Office furniture	252	69,796	53,040	53,318	38,634
Public building & related furniture	253	77,793	48,600	51,870	40,805
Partitions and fixtures	254	67,491	51,653	53,002	35,561
Miscellaneous furniture and fixtures	259	70,221	47,590	52,426	40,524

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Paper and allied products	26	90,034	58,752	65,132	45,644
Pulp mills	261	85,764	60,850	68,252	43,236
Paper mills	262	86,891	58,897	62,478	44,452
Paperboard mills	263	86,617	55,702	62,519	46,229
Paperboard containers and boxes	265	77,280	50,477	55,782	45,804
Misc. converted paper products	267	93,513	57,396	61,281	42,826
Printing and publishing	27	75,724	55,600	56,222	49,155
Newspapers	271	70,389	53,869	53,977	48,866
Periodicals	272	82,460	56,094	64,890	53,384
Books	273	86,327	48,448	55,780	53,672
Miscellaneous publishing	274	79,643	60,179	61,420	48,262
Commercial printing	275	69,503	50,917	55,865	47,002
Manifold business forms	276	65,183	52,290	<	49,397
Greeting cards	277	69,310	49,373	<	<
Blankbooks and bookbinding	278	88,000	58,053	54,410	40,802
Printing trade services	279	73,660	55,553	<	57,460
Chemicals and allied products	28	92,531	59,250	64,905	41,278
Industrial inorganic chemicals	281	84,141	55,701	64,984	41,873
Plastics materials and synthetics	282	88,159	62,936	66,879	43,044
Drugs	283	97,826	59,140	63,733	39,512
Soap, cleaners, and toilet goods	284	94,355	54,528	63,409	39,697
Paints and allied products	285	79,177	51,359	61,532	35,860
Industrial organic chemicals	286	88,911	64,871	67,384	44,759
Agricultural chemicals	287	85,285	55,320	60,316	41,332
Miscellaneous chemical products	289	85,745	55,365	62,234	41,266
Petroleum and coal products	29	85,558	62,490	68,795	45,662
Petroleum refining	291	88,470	63,539	69,705	47,281
Asphalt paving and roofing materials	295	63,860	51,324	57,096	31,920
Misc. petroleum and coal products	299	<	53,980	63,724	35,810
Rubber and misc. plastics products	30	72,686	51,418	55,675	37,880
Tires and inner tubes	301	76,670	49,368	57,144	45,055
Hose & belting & gaskets & packing	305	72,575	49,400	53,614	35,734
Fabricated rubber products, n.e.c.	306	72,858	51,973	53,807	36,214
Miscellaneous plastics products, n.e.c.	308	72,324	51,452	56,131	37,672
Leather and leather products	31	77,484	51,593	48,620	46,788
Leather tanning and finishing	311	<	<	<	35,160
Footwear, except rubber	314	72,060	53,890	<	54,340
Luggage	316	<	<	<	<
Stone, clay and glass products	32	73,874	53,903	56,597	38,741
Flat glass	321	<	<	56,063	<
Glass and glassware, pressed or blown	322	82,683	58,107	60,980	40,268
Products of purchased glass	323	79,043	58,121	55,216	41,721
Cement, hydraulic	324	73,188	46,654	59,291	39,491
Structural clay products	325	61,845	<	51,561	30,827
Pottery and related products	326	73,137	<	56,982	37,215
Concrete, gypsum, and plaster products	327	67,810	54,029	51,635	35,537
Cut stone and stone products	328	<	<	<	<
Misc. nonmetallic mineral products	329	75,232	54,638	58,854	39,570

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Primary metal industries	33	75,870	55,292	57,429	39,415
Blast furnace and basic steel products	331	71,976	52,904	55,796	40,613
Iron and steel foundries	332	75,533	59,135	55,071	38,078
Primary nonferrous metals	333	80,343	57,114	57,131	39,398
Secondary nonferrous metals	334	<	41,460	54,495	33,200
Nonferrous rolling and drawing	335	79,750	57,748	61,743	39,337
Nonferrous foundries (castings)	336	71,783	48,189	54,517	38,056
Miscellaneous primary metal products	339	73,338	<	53,396	33,557
Fabricated metal products	34	71,583	53,557	56,129	39,144
Metal cans and shipping containers	341	82,640	64,460	65,725	41,650
Cutlery, hand tools, and hardware	342	70,848	52,448	53,765	38,627
Plumbing and heating, except electric	343	71,244	<	54,569	38,136
Fabricated structural metal products	344	66,116	54,736	55,478	37,987
Screw machine products, bolts, etc.	345	69,006	53,427	53,091	37,906
Metal forgings and stampings	346	78,797	53,453	57,483	41,751
Metal services, n.e.c.	347	66,950	41,270	53,881	35,999
Ordnance and accessories, n.e.c.	348	81,505	59,296	59,368	45,102
Misc. fabricated metal products	349	72,826	51,244	53,571	38,210
Industrial machinery and equipment	35	83,774	70,385	60,544	45,376
Engines and turbines	351	83,065	58,134	56,591	42,709
Farm and garden machinery	352	70,468	52,993	52,983	36,239
Construction and related machinery	353	73,307	55,895	55,658	38,876
Metalworking machinery	354	73,064	54,810	54,063	41,749
Special industry machinery	355	78,792	62,735	59,106	41,425
General industrial machinery	356	74,755	57,844	56,533	39,072
Computer and office equipment	357	102,927	73,495	72,092	58,075
Refrigeration and service machinery	358	70,804	53,976	54,487	36,867
Industrial machinery, n.e.c.	359	67,510	50,502	53,469	39,929
Electronic & other electric equipment	36	90,617	61,799	63,913	39,617
Electric distribution equipment	361	78,544	55,299	55,449	37,523
Electrical industrial apparatus	362	79,006	59,988	57,331	37,217
Household appliances	363	76,330	54,343	54,780	39,726
Electric lighting and wiring equipment	364	81,649	60,530	57,939	39,309
Household audio and video equipment	365	89,980	62,719	62,726	36,659
Communication equipment	366	93,175	69,925	66,778	41,744
Electronic components and accessories	367	94,825	70,673	66,404	39,179
Misc. electrical equipment & supplies	369	80,095	60,301	58,807	37,657
Transportation equipment	37	89,748	61,979	64,718	47,978
Motor vehicles and equipment	371	88,547	59,979	61,677	46,654
Aircraft and parts	372	89,763	63,203	66,567	50,098
Ship and boat building and repairing	373	76,246	51,237	49,074	35,118
Railroad equipment	374	75,506	50,560	58,690	36,837
Motorcycles, bicycles, and parts	375	77,772	<	54,307	41,222
Guided missiles, space vehicles, parts	376	99,511	59,339	67,422	48,199
Miscellaneous transportation equipment	379	68,721	56,718	53,017	43,268

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Instruments and related products	38	90,720	60,752	67,107	45,210
Search and navigation equipment	381	92,415	68,665	69,278	42,632
Measuring and controlling devices	382	91,638	66,982	64,719	40,201
Medical instruments and supplies	384	86,747	58,723	61,767	40,889
Ophthalmic goods	385	85,236	60,217	67,382	42,990
Photographic equipment and supplies	386	87,168	68,277	67,840	42,983
Watches, clocks, watchcases & parts	387	<	<	54,850	<
Miscellaneous manufacturing industries	39	74,144	56,215	55,317	38,785
Jewelry, silverware, and plated ware	391	79,351	53,726	57,750	54,290
Musical instruments	393	<	66,305	56,434	42,285
Toys and sporting goods	394	73,132	56,759	55,218	40,227
Pens, pencils, office, & art supplies	395	70,334	52,777	51,952	37,732
Costume jewelry and notions	396	<	<	<	<
Miscellaneous manufactures	399	74,802	56,307	55,612	37,417
Transportation, communications, and utilities					
Railroad transportation	40	83,110	60,372	60,328	41,427
Railroad transportation	401	83,110	60,372	60,328	41,427
Local and interurban transit	41	58,310	45,860	<	34,235
Local and suburban transportation	411	62,370	47,380	<	54,870
Bus charter service	414	<	<	<	<
School buses	415	<	<	<	16,820
Trucking and warehousing	42	69,283	52,358	51,255	43,125
Trucking and courier services, excl. air	421	70,711	50,796	49,045	43,368
Public warehousing and storage	422	65,618	56,557	<	48,122
Trucking terminal facilities	423	<	<	<	21,360
Water transportation	44	79,723	55,276	61,600	54,833
Deep sea foreign transportation of freight	441	80,258	61,000	<	62,960
Deep sea domestic transportation of freight	442	82,640	54,610	74,610	60,157
Water transportation of freight, n.e.c.	444	<	<	65,810	<
Water transportation of passengers	448	70,150	<	<	<
Water transportation services	449	79,684	<	59,270	43,040
Transportation by air	45	80,142	57,433	55,266	48,123
Air transportation, scheduled	451	80,649	57,781	55,016	49,913
Air transportation, nonscheduled	452	<	<	<	47,819
Airports, flying fields, and services	458	78,191	50,982	58,639	40,990
Pipelines, except natural gas	46	85,740	65,890	69,148	56,718
Pipelines, except natural gas	461	85,740	<	69,148	56,718
Transportation services	47	72,195	50,006	56,153	42,924
Passenger transportation arrangements	472	66,170	48,171	66,630	49,120
Freight transportation arrangements	473	79,100	54,376	49,302	47,772
Rental of railroad cars	474	<	<	<	<
Misc. transportation services	478	<	<	48,338	32,910
Communications	48	75,514	60,450	60,329	39,029
Telephone communications	481	76,689	61,368	60,396	47,827
Telegraph and other communications	482	83,052	66,499	<	63,600
Radio and television broadcasting	483	65,864	53,273	58,273	32,251
Cable and other pay TV services	484	77,167	51,576	60,299	35,270
Communications services, n.e.c.	489	76,925	61,112	62,042	43,527

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Utilities and sanitary services	49	82,186	59,837	69,857	50,694
Electric services	491	80,399	60,083	69,811	50,644
Gas production and distribution	492	83,909	58,810	66,616	48,204
Combination utility services	493	86,203	62,908	69,255	54,358
Water supply	494	70,032	45,391	62,787	40,663
Sanitary services	495	87,980	52,053	66,999	41,916
Steam and air-conditioning supply	496	<	<	<	<
Wholesale trade					
Wholesale trade, durable goods	50	88,948	63,818	62,441	51,008
Motor vehicles, parts, and supplies	501	82,016	54,160	62,781	50,150
Furniture and homefurnishings	502	71,472	52,222	43,601	56,587
Lumber and construction materials	503	74,927	53,344	53,825	41,539
Professional and commercial equipment	504	94,237	65,148	60,351	56,982
Metals and minerals, except petroleum	505	74,709	55,377	53,706	42,152
Electrical goods	506	89,967	63,548	66,567	44,466
Hardware, plumbing, and heating equipment	507	78,152	49,961	60,468	44,361
Machinery, equipment, and supplies	508	76,869	53,728	58,545	44,100
Miscellaneous durable goods	509	74,582	55,284	53,162	44,686
Wholesale trade, nondurable goods	51	81,346	57,746	59,992	49,771
Paper and paper products	511	82,751	58,503	51,826	51,787
Drugs, proprietaries, and sundries	512	92,277	61,946	64,517	55,511
Apparel, piece goods, and notions	513	89,527	57,709	60,320	64,610
Groceries and related products	514	74,346	57,602	50,421	50,377
Farm-product raw materials	515	76,717	45,465	<	53,200
Chemicals and allied products	516	84,719	61,995	61,371	47,199
Petroleum and petroleum products	517	76,793	54,982	65,423	41,378
Beer, wine, and distilled beverages	518	68,240	49,237	<	57,420
Misc. nondurable goods	519	75,330	53,264	67,656	48,680
Retail trade					
Building materials and garden supplies	52	62,338	46,555	32,565	40,640
Lumber and other building materials	521	62,872	46,715	32,620	39,447
Hardware stores	525	<	<	<	<
Retail nurseries and garden stores	526	<	<	<	<
General merchandise stores	53	76,246	58,257	66,617	47,829
Department stores	531	76,901	58,668	66,617	47,849
Variety stores	533	<	<	<	56,240
Misc. general merchandise stores	539	<	<	<	<
Food stores	54	56,054	51,144	43,939	45,073
Grocery stores	541	54,973	51,330	46,006	44,746
Miscellaneous food stores	549	<	<	<	49,180
Automotive dealers and service stations	55	58,499	46,802	39,390	41,902
New and used car dealers	551	56,570	43,860	39,220	49,877
Auto and home supply stores	553	62,402	61,420	<	53,290
Gasoline service stations	554	58,140	46,220	<	60,770
Boat dealers	555	<	<	<	<
Automotive dealers, n.e.c.	559	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Apparel and accessory stores	56	72,925	52,232	<	53,049
Men's and boys' clothing stores	561	<	<	<	62,570
Women's clothing stores	562	64,360	51,825	<	57,140
Women's accessory and specialty stores	563	<	<	<	<
Family clothing stores	565	69,897	47,488	<	50,900
Shoe stores	566	77,320	48,340	<	52,079
Misc. apparel and accessory stores	569	<	<	<	<
Furniture and homefurnishings stores	57	77,164	57,837	53,418	53,670
Furniture and homefurnishings stores	571	57,040	45,740	<	53,750
Radio, television, and computer stores	573	81,279	58,152	61,860	53,697
Eating and drinking places	58	62,180	53,034	<	<
Eating and drinking places	581	62,180	53,034	<	<
Misc. retail stores	59	78,451	55,118	55,348	52,814
Drug stores and proprietary stores	591	71,210	54,183	<	52,360
Used merchandise stores	593	<	<	<	<
Miscellaneous shopping goods stores	594	78,631	57,683	56,400	54,780
Nonstore retailers	596	80,407	54,186	51,997	53,356
Fuel dealers	598	<	<	<	<
Retail stores, n.e.c.	599	77,380	55,947	57,720	51,813
Finance, insurance, and real estate					
Depository institutions	60	78,530	59,549	67,543	60,517
Central reserve depositories	601	80,470	61,791	<	62,950
Commercial banks	602	82,608	60,480	66,130	60,990
Savings institutions	603	72,890	51,726	<	57,410
Credit unions	606	55,950	41,697	<	51,850
Foreign banks and branches and agencies	608	104,170	54,263	<	57,280
Functions closely related to banking	609	73,010	55,522	<	57,560
Nondepository institutions	61	84,807	57,343	69,540	58,880
Federal and federally sponsored credit	611	85,480	58,950	<	56,900
Personal credit institutions	614	87,380	54,247	<	64,540
Business credit institutions	615	85,780	60,844	68,570	59,050
Mortgage bankers and brokers	616	80,620	56,671	<	55,030
Security and commodity brokers	62	90,370	66,119	65,660	69,070
Security brokers and dealers	621	91,640	66,699	68,480	69,900
Commodity contracts, brokers, and dealers	622	95,280	68,335	<	50,010
Security and commodity exchanges	623	<	69,604	<	<
Security and commodity services	628	87,230	64,043	<	68,370
Insurance carriers	63	84,167	58,984	57,816	57,099
Life insurance	631	85,000	58,303	65,739	57,041
Medical service and health insurance	632	84,261	56,390	52,490	57,650
Fire, marine, and casualty insurance	633	84,970	62,451	54,947	56,987
Surety insurance	635	85,060	57,378	<	61,690
Title insurance	636	76,260	56,496	<	43,341
Pension, health, and welfare funds	637	75,330	66,471	<	60,270
Insurance carriers, n.e.c.	639	<	<	<	<
Insurance agents, brokers, and service	64	71,232	56,403	58,560	54,918
Insurance agents, brokers, and service	641	71,232	56,403	58,560	54,918

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Real estate	65	71,332	50,916	51,621	51,643
Real estate operators and lessors	651	69,076	50,107	<	50,851
Real estate agents and managers	653	74,340	51,686	52,750	57,528
Title abstract offices	654	66,540	45,822	<	<
Subdividers and developers	655	81,830	51,739	61,127	44,191
Holding and other investment offices	67	82,332	58,535	67,555	53,588
Holding offices	671	81,797	59,867	66,098	53,728
Investment offices	672	85,610	56,971	<	62,960
Trusts	673	63,940	45,698	<	31,730
Misc. investing	679	91,294	66,635	82,230	62,920
Services					
Hotels and other lodging places	70	74,617	47,434	44,667	36,274
Hotels and motels	701	74,720	47,619	44,712	36,097
Personal services	72	69,670	46,762	<	55,116
Laundry, cleaning, and garment services	721	<	<	<	53,630
Photographic studios, portrait	722	<	<	<	<
Beauty shops	723	<	<	<	<
Funeral service and crematories	726	70,410	<	<	51,080
Misc. personal services	729	<	41,493	<	61,230
Business services	73	89,562	67,736	68,484	60,383
Advertising	731	86,708	61,728	74,763	52,067
Credit reporting and collection	732	73,740	51,817	<	50,990
Mailing, reproduction, and stenographic	733	74,940	58,660	48,968	51,811
Services to buildings	734	64,090	<	59,280	37,238
Misc. equipment rental and leasing	735	77,540	55,737	63,420	40,149
Personnel supply services	736	80,067	62,189	73,472	49,854
Computer and data processing services	737	91,112	68,281	66,653	63,294
Misc. business services	738	72,307	55,801	51,722	46,726
Auto repair, services, and parking	75	70,140	58,103	57,573	43,314
Automobile rentals, no drivers	751	69,150	54,240	64,940	57,930
Automobile repair shops	753	<	60,888	55,038	50,198
Automobile services, except repair	754	<	<	<	18,884
Misc. repair services	76	64,950	48,933	58,345	36,768
Electrical repair shops	762	<	49,149	54,237	36,706
Misc. repair shops	769	62,400	50,370	61,061	36,821
Motion pictures	78	98,827	61,004	63,632	46,031
Motion picture production and services	781	101,393	61,658	63,520	46,477
Motion picture distribution and services	782	73,470	48,410	<	42,408
Motion picture theaters	783	<	<	<	23,020
Video tape rental	784	<	<	<	31,190
Amusement and recreation services	79	70,238	44,539	63,404	36,331
Producers, orchestras, and entertainers	792	81,750	41,876	<	36,445
Commercial sports	794	<	39,453	82,440	37,302
Misc. amusement, recreation services	799	66,241	44,438	50,560	33,776

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Health services	80	68,794	52,271	48,992	43,536
Offices and clinics of medical doctors	801	65,521	49,903	45,820	33,760
Offices and clinics of dentists	802	<	<	<	<
Offices of other health practitioners	804	69,900	55,945	<	<
Nursing and personal care facilities	805	58,500	45,638	<	<
Hospitals	806	70,872	52,959	49,054	44,403
Medical and dental laboratories	807	73,666	57,449	48,770	32,893
Home health care services	808	59,410	52,275	<	47,830
Health and allied services, n.e.c.	809	64,734	45,952	<	48,660
Legal services	81	77,650	57,876	<	56,780
Legal services	811	77,650	57,876	<	56,780
Educational services	82	66,455	50,519	43,320	42,192
Elementary and secondary schools	821	65,989	51,879	<	44,216
Colleges, universities, and professional	822	66,492	47,921	<	41,232
Libraries	823	63,210	47,425	<	<
Vocational schools	824	63,810	54,705	43,230	46,517
Schools and educational services, n.e.c.	829	69,573	56,491	<	47,912
Social services	83	53,544	41,850	<	40,889
Individual and family services	832	52,875	41,780	<	37,910
Job training and related services	833	48,100	41,733	<	43,900
Child day care services	835	46,590	45,200	<	33,930
Residential care	836	56,220	40,985	<	42,060
Social services, n.e.c.	839	56,660	42,724	<	45,919
Museums, botanical, zoological gardens	84	53,887	36,792	45,310	37,409
Museums and art galleries	841	54,639	43,984	45,940	39,661
Botanical and zoological gardens	842	49,260	34,042	<	28,657
Membership organizations	86	63,048	48,932	56,737	45,018
Business associations	861	62,531	48,761	<	51,791
Professional organizations	862	72,720	49,906	<	56,330
Labor organizations	863	66,430	45,916	<	55,940
Civic and social associations	864	52,160	42,454	<	33,921
Political organizations	865	44,770	43,656	<	<
Religious organizations	866	<	43,938	<	45,200
Membership organizations, n.e.c.	869	<	45,417	<	45,902

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2000

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Engineering and management services	87	84,099	58,614	62,008	38,456
Engineering and architectural services	871	83,614	63,014	61,051	36,902
Accounting, auditing, and bookkeeping	872	83,015	59,373	65,650	54,867
Research and testing services	873	88,853	56,218	69,153	36,757
Management and public relations	874	80,011	59,081	60,466	49,118
Services, n.e.c.	89	76,178	61,748	58,521	41,078
Services, n.e.c.	899	76,178	61,748	58,521	41,078
Public administration					
Federal, state, and local government	90	73,146	53,725	61,986	39,437
Federal government	901	78,345	61,418	68,793	43,323
State government	902	63,759	46,189	54,921	36,154
Local government	903	68,077	48,379	57,288	40,119

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. Since the annual figures are calculated directly from the hourly figures, the relative standard error has not been calculated separately for the mean annual wages entries. See Technical Notes for more detail. Two-digit SIC information incorporates information for all 3-digit industries, including those 3-digit industries not displayed separately. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total		29.33	26.70	28.61	26.47	25.10	30.77
Agriculture, forestry, and fishing							
Agricultural services	07	19.82	<	<	18.64	<	29.76
Mining							
Metal mining	10	28.75	28.75	<	<	<	<
Coal mining	12	28.74	29.96	<	<	<	<
Oil and gas extraction	13	38.99	40.65	34.05	<	30.68	31.10
Nonmetallic minerals, except fuels	14	25.25	24.30	<	<	<	27.09
Construction							
General building contractors	15	23.57	<	<	<	24.01	23.45
Heavy construction, excluding building	16	25.75	<	<	<	<	25.75
Special trade contractors	17	25.29	23.50	<	<	28.62	25.15
Total manufacturing							
Food and kindred products	20	27.35	22.08	29.37	28.96	26.60	29.21
Tobacco products	21	29.95	<	<	<	<	29.95
Textile mill products	22	25.43	25.00	<	<	28.77	25.38
Apparel and other textile products	23	28.03	<	<	<	<	28.03
Lumber and wood products	24	24.58	<	<	21.75	28.39	28.33
Furniture and fixtures	25	23.57	<	<	<	22.74	23.64
Paper and allied products	26	28.24	28.84	31.96	23.77	<	28.37
Printing and publishing	27	26.73	<	23.48	<	24.43	27.27
Chemicals and allied products	28	28.49	27.55	32.30	30.19	31.28	29.08
Petroleum and coal products	29	30.04	30.00	<	<	31.48	30.05
Rubber and misc. plastics products	30	24.72	25.46	<	<	26.13	24.09
Leather and leather products	31	24.81	<	<	<	22.63	25.77
Stone, clay and glass products	32	25.92	23.95	<	<	27.06	26.88
Primary metal industries	33	26.58	25.66	25.81	<	26.36	27.11
Fabricated metal products	34	25.75	25.10	<	<	31.20	25.39
Industrial machinery and equipment	35	33.84	31.51	28.80	<	35.90	33.82
Electronic & other electric equipment	36	29.71	27.27	27.35	<	30.35	29.76
Transportation equipment	37	29.80	27.87	26.57	<	35.96	30.60
Instruments and related products	38	29.20	31.60	29.85	24.33	<	29.16
Miscellaneous manufacturing industries	39	27.03	26.57	<	<	23.73	27.41
Transportation, communications, and utilities							
Railroad transportation	40	29.03	<	<	<	<	29.03
Local and interurban transit	41	22.05	<	<	<	<	22.05
Trucking and warehousing	42	25.17	<	21.36	<	24.24	25.65
Water transportation	44	26.58	<	25.05	<	25.52	27.85
Transportation by air	45	27.61	23.54	26.40	<	26.12	28.26
Pipelines, except natural gas	46	<	<	<	<	<	<
Transportation services	47	24.04	<	20.03	<	21.87	24.57
Communications	48	29.06	28.84	22.33	<	30.33	29.18
Utilities and sanitary services	49	28.77	27.13	25.05	27.79	27.06	30.02

See explanatory information and SOURCE at end of table.

Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Wholesale trade							
Wholesale trade, durable goods	50	30.68	26.50	31.72	<	33.90	30.30
Wholesale trade, nondurable goods	51	27.76	29.51	25.99	27.44	26.64	27.89
Retail trade							
Building materials and garden supplies	52	22.38	<	<	<	<	22.38
General merchandise stores	53	28.01	<	21.30	<	22.17	29.22
Food stores	54	24.59	<	<	<	18.06	25.35
Automotive dealers and service stations	55	22.50	<	<	<	19.93	22.85
Apparel and accessory stores	56	25.11	<	<	<	22.99	25.84
Furniture and homefurnishings stores	57	27.81	<	<	<	21.23	28.01
Eating and drinking places	58	25.50	<	<	<	17.30	26.09
Misc. retail stores	59	26.50	<	25.34	<	24.23	27.22
Finance, insurance, and real estate							
Depository institutions	60	28.63	<	21.33	<	27.73	29.22
Nondepository institutions	61	27.57	<	25.08	<	25.44	28.07
Security and commodity brokers	62	31.79	<	26.91	<	29.74	32.56
Insurance carriers	63	28.36	<	30.79	29.97	22.70	28.47
Insurance agents, brokers, and service	64	27.12	<	31.37	<	25.47	26.76
Real estate	65	24.48	<	<	<	22.84	25.19
Holding and other investment offices	67	28.14	26.17	22.33	32.34	26.48	29.09
Services							
Hotels and other lodging places	70	22.80	<	<	<	20.77	22.97
Personal services	72	22.48	<	<	<	18.85	24.75
Business services	73	32.57	22.44	32.58	35.57	29.38	32.68
Auto repair, services, and parking	75	27.93	<	<	<	25.93	28.15
Misc. repair services	76	23.52	<	<	<	26.96	22.95
Motion pictures	78	29.33	<	<	<	25.11	29.38
Amusement and recreation services	79	21.42	<	<	<	18.54	24.02
Health services	80	25.13	33.91	25.06	24.56	24.48	25.87
Legal services	81	27.83	<	<	<	21.93	27.88
Educational services	82	24.29	<	23.18	<	25.23	23.40
Social services	83	20.12	22.85	22.61	<	19.64	22.44
Museums, botanical, zoological gardens	84	17.69	<	<	15.42	20.48	25.07
Membership organizations	86	23.53	19.49	25.99	20.11	22.81	24.52
Engineering and management services	87	28.18	25.61	27.78	29.12	22.24	31.50
Services, n.e.c.	89	29.69	26.01	36.56	22.51	20.60	29.65

See explanatory information and SOURCE at end of table.

Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration							
Federal, state, and local government	90	25.83	25.51	28.65	24.61	25.16	26.47

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total		61,011	55,536	59,502	55,051	52,205	63,995
Agriculture, forestry, and fishing							
Agricultural services	07	41,225	<	<	38,770	<	61,914
Mining							
Metal mining	10	59,797	59,797	<	<	<	<
Coal mining	12	59,781	62,312	<	<	<	<
Oil and gas extraction	13	81,108	84,553	70,820	<	63,820	64,691
Nonmetallic minerals, except fuels	14	52,523	50,533	<	<	<	56,337
Construction							
General building contractors	15	49,019	<	<	<	49,950	48,774
Heavy construction, excluding building	16	53,552	<	<	<	<	53,552
Special trade contractors	17	52,603	48,889	<	<	59,520	52,305
Total manufacturing							
Food and kindred products	20	56,876	45,925	61,080	60,253	55,320	60,746
Tobacco products	21	62,284	<	<	<	<	62,284
Textile mill products	22	52,893	52,000	<	<	59,850	52,790
Apparel and other textile products	23	58,302	<	<	<	<	58,302
Lumber and wood products	24	51,120	<	<	45,252	59,040	58,918
Furniture and fixtures	25	49,028	<	<	<	47,300	49,168
Paper and allied products	26	58,752	59,987	66,480	49,446	<	59,018
Printing and publishing	27	55,600	<	48,828	<	50,806	56,717
Chemicals and allied products	28	59,250	57,294	67,173	62,794	65,050	60,480
Petroleum and coal products	29	62,490	62,393	<	<	65,480	62,493
Rubber and misc. plastics products	30	51,418	52,955	<	<	54,350	50,115
Leather and leather products	31	51,593	<	<	<	47,060	53,583
Stone, clay and glass products	32	53,903	49,817	<	<	56,280	55,905
Primary metal industries	33	55,292	53,371	53,690	<	54,830	56,392
Fabricated metal products	34	53,557	52,205	<	<	64,890	52,802
Industrial machinery and equipment	35	70,385	65,536	59,910	<	74,680	70,342
Electronic & other electric equipment	36	61,799	56,730	56,874	<	63,130	61,901
Transportation equipment	37	61,979	57,961	55,270	<	74,797	63,652
Instruments and related products	38	60,752	65,739	62,091	50,616	<	60,662
Miscellaneous manufacturing industries	39	56,215	55,260	<	<	49,370	57,006
Transportation, communications, and utilities							
Railroad transportation	40	60,372	<	<	<	<	60,372
Local and interurban transit	41	45,860	<	<	<	<	45,860
Trucking and warehousing	42	52,358	<	44,430	<	50,400	53,360
Water transportation	44	55,276	<	52,100	<	53,080	57,913
Transportation by air	45	57,433	48,960	54,920	<	54,330	58,776
Pipelines, except natural gas	46	<	<	<	<	<	<
Transportation services	47	50,006	<	41,670	<	45,480	51,100
Communications	48	60,450	59,990	46,453	<	63,088	60,690
Utilities and sanitary services	49	59,837	56,427	52,110	57,786	56,274	62,451

See explanatory information and SOURCE at end of table.

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Wholesale trade							
Wholesale trade, durable goods	50	63,818	55,130	65,986	<	70,508	63,028
Wholesale trade, nondurable goods	51	57,746	61,380	54,061	57,063	55,410	58,008
Retail trade							
Building materials and garden supplies	52	46,555	<	<	<	<	46,555
General merchandise stores	53	58,257	<	44,310	<	46,100	60,772
Food stores	54	51,144	<	<	<	37,560	52,725
Automotive dealers and service stations	55	46,802	<	<	<	41,460	47,532
Apparel and accessory stores	56	52,232	<	<	<	47,830	53,753
Furniture and homefurnishings stores	57	57,837	<	<	<	44,160	58,248
Eating and drinking places	58	53,034	<	<	<	35,980	54,252
Misc. retail stores	59	55,118	<	52,710	<	50,396	56,609
Finance, insurance, and real estate							
Depository institutions	60	59,549	<	44,364	<	57,678	60,790
Nondepository institutions	61	57,343	<	52,165	<	52,915	58,381
Security and commodity brokers	62	66,119	<	55,968	<	61,877	67,728
Insurance carriers	63	58,984	<	64,035	62,325	47,203	59,213
Insurance agents, brokers, and service	64	56,403	<	65,258	<	52,970	55,659
Real estate	65	50,916	<	<	<	47,502	52,394
Holding and other investment offices	67	58,535	54,443	46,440	67,257	55,080	60,517
Services							
Hotels and other lodging places	70	47,434	<	<	<	43,210	47,772
Personal services	72	46,762	<	<	<	39,200	51,488
Business services	73	67,736	46,676	67,759	73,990	61,102	67,966
Auto repair, services, and parking	75	58,103	<	<	<	53,930	58,561
Misc. repair services	76	48,933	<	<	<	56,080	47,742
Motion pictures	78	61,004	<	<	<	52,220	61,111
Amusement and recreation services	79	44,539	<	<	<	38,550	49,962
Health services	80	52,271	70,529	52,120	51,073	50,919	53,823
Legal services	81	57,876	<	<	<	45,620	57,995
Educational services	82	50,519	<	48,217	<	52,480	48,675
Social services	83	41,850	47,540	47,030	<	40,841	46,681
Museums, botanical, zoological gardens	84	36,792	<	<	32,077	42,595	52,136
Membership organizations	86	48,932	40,530	54,049	41,828	47,454	50,985
Engineering and management services	87	58,614	53,274	57,777	60,562	46,251	65,530
Services, n.e.c.	89	61,748	54,093	76,058	46,820	42,853	61,675

See explanatory information and SOURCE at end of table.

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration							
Federal, state, and local government	90	53,725	53,062	59,596	51,187	52,341	55,063

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 15. Mean hourly wages of employed engineers, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/ electronics	Indus-trial	Mech-anical	Sales	Other
Total		30.20	33.19	28.07	33.70	31.92	28.80	29.26	29.54	30.23
Agriculture, forestry, and fishing										
Agricultural services	07	25.54	<	24.89	<	<	<	20.38	<	29.89
Mining										
Metal mining	10	29.90	<	<	<	<	26.63	29.03	<	30.08
Coal mining	12	29.52	<	<	<	<	<	<	<	29.25
Oil and gas extraction	13	38.46	<	40.14	<	33.23	36.58	34.98	35.17	39.45
Nonmetallic minerals, except fuels	14	29.19	<	28.64	<	<	28.02	33.62	<	29.02
Construction										
General building contractors	15	27.48	<	26.99	<	34.65	24.30	32.58	26.53	26.79
Heavy construction, excluding building	16	32.36	<	31.45	<	35.87	34.40	37.73	32.68	29.44
Special trade contractors	17	27.78	<	26.80	26.59	28.40	34.24	28.69	28.27	23.13
Total manufacturing										
Food and kindred products	20	28.36	<	<	<	28.82	29.01	27.55	35.37	27.04
Tobacco products	21	<	<	<	<	<	<	<	<	<
Textile mill products	22	26.48	<	<	<	<	25.15	27.17	33.42	28.02
Apparel and other textile products	23	25.14	<	<	<	<	24.40	27.52	<	<
Lumber and wood products	24	24.94	<	19.51	<	<	25.75	24.22	25.53	23.92
Furniture and fixtures	25	24.34	<	<	<	<	24.16	25.44	21.88	21.93
Paper and allied products	26	31.31	<	32.55	<	32.32	32.38	30.28	32.21	29.61
Printing and publishing	27	27.03	<	<	29.20	29.88	27.92	26.57	23.04	25.60
Chemicals and allied products	28	31.21	<	32.92	35.50	32.15	31.36	29.95	30.37	31.34
Petroleum and coal products	29	33.08	<	30.76	<	33.61	31.09	31.94	29.73	34.71
Rubber and misc. plastics products	30	26.77	<	29.42	<	28.93	25.42	27.24	30.04	26.74
Leather and leather products	31	23.37	<	<	<	<	23.37	<	<	<
Stone, clay and glass products	32	27.21	<	24.19	<	29.06	25.50	27.09	28.35	28.62
Primary metal industries	33	27.61	<	28.11	<	29.80	27.15	27.50	28.37	27.34
Fabricated metal products	34	26.98	<	25.92	34.13	30.40	26.24	26.66	27.97	26.90
Industrial machinery and equipment	35	29.11	25.22	31.30	37.08	31.57	27.56	26.37	30.18	27.88
Electronic & other electric equipment	36	30.73	31.18	32.50	34.67	31.09	29.44	29.55	32.15	29.17
Transportation equipment	37	31.11	32.72	27.82	36.93	34.38	29.44	29.13	29.70	29.36
Instruments and related products	38	32.26	34.95	33.22	34.21	32.93	<	29.57	30.33	31.61
Miscellaneous manufacturing industries	39	26.60	<	26.76	30.87	27.53	26.04	26.10	26.91	26.41
Transportation, communications, and utilities										
Railroad transportation	40	29.01	<	28.10	<	<	<	<	<	29.02
Local and interurban transit	41	<	<	<	<	<	<	<	<	<
Trucking and warehousing	42	24.64	<	<	<	<	26.36	<	25.77	21.64
Water transportation	44	29.61	<	<	<	<	<	<	<	29.61
Transportation by air	45	26.57	26.60	27.06	<	<	26.72	24.93	39.72	22.89
Pipelines, except natural gas	46	33.25	<	38.74	<	26.53	33.12	30.40	<	33.84
Transportation services	47	26.99	<	<	32.03	<	20.50	31.08	<	23.50
Communications	48	29.01	<	28.12	28.91	29.16	28.47	28.39	28.84	23.34
Utilities and sanitary services	49	33.58	<	31.47	31.77	32.48	34.47	33.77	29.56	35.02

See explanatory information and SOURCE at end of table.

Table 15. Mean hourly wages of employed engineers, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/ electronics	Indus-trial	Mech-anical	Sales	Other
Wholesale trade										
Wholesale trade, durable goods	50	30.02	33.13	27.77	32.17	31.92	29.16	27.38	28.96	27.93
Wholesale trade, nondurable goods	51	28.84	<	<	35.11	28.76	25.87	28.63	25.78	33.83
Retail trade										
Building materials and garden supplies	52	15.66	<	<	<	<	28.00	<	11.83	<
General merchandise stores	53	32.03	<	<	<	<	32.54	<	<	<
Food stores	54	21.12	<	<	<	<	22.53	<	<	<
Automotive dealers and service stations	55	18.94	<	<	<	<	<	<	18.94	<
Furniture and homefurnishings stores	57	25.69	<	<	<	28.31	<	<	25.26	<
Misc. retail stores	59	26.61	<	<	<	27.95	29.38	23.17	23.49	<
Finance, insurance, and real estate										
Depository institutions	60	32.47	<	<	<	33.41	<	<	<	<
Nondepository institutions	61	33.43	<	<	33.43	<	<	<	<	<
Security and commodity brokers	62	31.57	<	<	<	31.57	<	<	<	<
Insurance carriers	63	27.80	<	<	28.66	<	32.41	33.05	<	26.24
Insurance agents, brokers, and service	64	28.15	<	<	<	<	<	<	<	28.15
Real estate	65	24.82	<	25.66	<	<	<	23.34	26.28	<
Holding and other investment offices	67	32.48	<	25.71	<	33.85	33.26	38.32	34.81	28.80
Services										
Hotels and other lodging places	70	21.47	<	<	<	23.20	<	25.31	19.09	<
Personal services	72	<	<	<	<	<	<	<	<	<
Business services	73	32.92	43.17	33.13	33.89	33.40	28.42	35.78	31.20	35.64
Auto repair, services, and parking	75	27.68	<	<	<	26.64	26.00	30.25	<	<
Misc. repair services	76	28.05	<	<	32.78	27.53	<	<	<	<
Motion pictures	78	30.59	<	<	<	34.49	29.10	<	30.83	<
Amusement and recreation services	79	30.49	<	25.87	<	30.98	<	37.40	<	22.97
Health services	80	23.55	<	24.52	<	27.68	27.35	27.59	24.14	22.90
Educational services	82	20.83	<	<	<	<	<	<	20.83	<
Social services	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens	84	21.79	<	<	<	<	<	<	<	21.79
Membership organizations	86	27.28	<	28.04	<	<	<	<	<	25.45
Engineering and management services	87	29.81	34.20	27.90	31.46	32.68	30.04	30.35	32.29	29.67
Services, n.e.c.	89	28.14	<	30.47	<	<	<	32.77	16.50	28.99
Public administration										
Federal, state, and local government	90	29.80	35.52	27.54	34.16	33.12	30.13	31.41	<	29.01

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 16. Mean annual wages of employed engineers, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/ electronics	Indus-trial	Mech-anical	Sales	Other
Total		62,815	69,040	58,380	70,100	66,393	59,900	60,860	61,450	62,879
Agriculture, forestry, and fishing										
Agricultural services	07	53,119	<	51,770	<	<	<	42,400	<	62,180
Mining										
Metal mining	10	62,181	<	<	<	<	55,400	60,370	<	62,570
Coal mining	12	61,397	<	<	<	<	<	<	<	60,831
Oil and gas extraction	13	79,984	<	83,490	<	69,110	76,080	72,760	73,150	82,052
Nonmetallic minerals, except fuels	14	60,722	<	59,570	<	<	58,290	69,930	<	60,371
Construction										
General building contractors	15	57,145	<	56,130	<	72,070	50,530	67,770	55,180	55,708
Heavy construction, excluding building	16	67,307	<	65,420	<	74,612	71,560	78,490	67,980	61,238
Special trade contractors	17	57,785	<	55,740	55,300	59,080	71,210	59,670	58,810	48,112
Total manufacturing										
Food and kindred products	20	58,988	<	<	<	59,950	60,340	57,310	73,570	56,241
Tobacco products	21	<	<	<	<	<	<	<	<	<
Textile mill products	22	55,072	<	<	<	<	52,300	56,510	69,510	58,291
Apparel and other textile products	23	52,272	<	<	<	<	50,740	57,240	<	<
Lumber and wood products	24	51,876	<	40,590	<	<	53,550	50,380	53,110	49,747
Furniture and fixtures	25	50,614	<	<	<	<	50,240	52,920	45,510	45,608
Paper and allied products	26	65,132	<	67,710	<	67,210	67,350	62,980	67,010	61,591
Printing and publishing	27	56,222	<	<	60,730	62,150	58,080	55,270	47,920	53,244
Chemicals and allied products	28	64,905	<	68,480	73,830	66,874	65,220	62,290	63,170	65,170
Petroleum and coal products	29	68,795	<	63,980	<	69,900	64,660	66,430	61,840	72,188
Rubber and misc. plastics products	30	55,675	<	61,200	<	60,179	52,870	56,660	62,490	55,626
Leather and leather products	31	48,620	<	<	<	<	48,620	<	<	<
Stone, clay and glass products	32	56,597	<	50,320	<	60,450	53,040	56,350	58,970	59,540
Primary metal industries	33	57,429	<	58,460	<	61,981	56,460	57,200	59,000	56,861
Fabricated metal products	34	56,129	<	53,910	70,980	63,240	54,570	55,460	58,180	55,948
Industrial machinery and equipment	35	60,544	52,460	65,100	77,120	65,659	57,330	54,850	62,770	58,000
Electronic & other electric equipment	36	63,913	64,850	67,610	72,100	64,670	61,230	61,470	66,870	60,684
Transportation equipment	37	64,718	68,070	57,870	76,810	71,519	61,230	60,590	61,770	61,072
Instruments and related products	38	67,107	72,700	69,090	71,160	68,500	<	61,500	63,090	65,755
Miscellaneous manufacturing industries	39	55,317	<	55,660	64,200	57,261	54,160	54,290	55,980	54,923
Transportation, communications, and utilities										
Railroad transportation	40	60,328	<	58,440	<	<	<	<	<	60,361
Local and interurban transit	41	<	<	<	<	<	<	<	<	<
Trucking and warehousing	42	51,255	<	<	<	<	54,830	<	53,590	45,010
Water transportation	44	61,600	<	<	<	<	<	<	<	61,600
Transportation by air	45	55,266	55,330	56,290	<	<	55,580	51,860	82,610	47,601
Pipelines, except natural gas	46	69,148	<	80,570	<	55,180	68,890	63,240	<	70,385
Transportation services	47	56,153	<	<	66,630	<	42,650	64,640	<	48,891
Communications	48	60,329	<	58,500	60,130	60,644	59,220	59,050	59,990	48,535
Utilities and sanitary services	49	69,857	<	65,460	66,090	67,547	71,690	70,250	61,490	72,841

See explanatory information and SOURCE at end of table.

Table 16. Mean annual wages of employed engineers, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/ electronics	Indus-trial	Mech-anical	Sales	Other
Wholesale trade										
Wholesale trade, durable goods	50	62,441	68,920	57,750	66,910	66,402	60,650	56,940	60,240	58,105
Wholesale trade, nondurable goods	51	59,992	<	<	73,030	59,811	53,820	59,550	53,630	70,369
Retail trade										
Building materials and garden supplies	52	32,565	<	<	<	<	58,230	<	24,600	<
General merchandise stores	53	66,617	<	<	<	<	67,680	<	<	<
Food stores	54	43,939	<	<	<	<	46,870	<	<	<
Automotive dealers and service stations	55	39,390	<	<	<	<	<	<	39,390	<
Furniture and homefurnishings stores	57	53,418	<	<	<	58,872	<	<	52,530	<
Misc. retail stores	59	55,348	<	<	<	58,142	61,100	48,190	48,850	<
Finance, insurance, and real estate										
Depository institutions	60	67,543	<	<	<	69,500	<	<	<	<
Nondepository institutions	61	69,540	<	<	69,540	<	<	<	<	<
Security and commodity brokers	62	65,660	<	<	<	65,660	<	<	<	<
Insurance carriers	63	57,816	<	<	59,610	<	67,420	68,740	<	54,580
Insurance agents, brokers, and service	64	58,560	<	<	<	<	<	<	<	58,560
Real estate	65	51,621	<	53,370	<	<	<	48,550	54,670	<
Holding and other investment offices	67	67,555	<	53,480	<	70,409	69,180	79,700	72,410	59,903
Services										
Hotels and other lodging places	70	44,667	<	<	<	48,250	<	52,650	39,710	<
Personal services	72	<	<	<	<	<	<	<	<	<
Business services	73	68,484	89,800	68,920	70,500	69,467	59,120	74,430	64,890	74,133
Auto repair, services, and parking	75	57,573	<	<	<	55,410	54,080	62,920	<	<
Misc. repair services	76	58,345	<	<	68,170	57,257	<	<	<	<
Motion pictures	78	63,632	<	<	<	71,734	60,530	<	64,130	<
Amusement and recreation services	79	63,404	<	53,810	<	64,435	<	77,780	<	47,777
Health services	80	48,992	<	51,000	<	57,569	56,880	57,380	50,210	47,637
Educational services	82	43,320	<	<	<	<	<	<	43,320	<
Social services	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens	84	45,310	<	<	<	<	<	<	<	45,310
Membership organizations	86	56,737	<	58,320	<	<	<	<	<	52,939
Engineering and management services	87	62,008	71,140	58,030	65,440	67,970	62,480	63,130	67,170	61,715
Services, n.e.c.	89	58,521	<	63,370	<	<	<	68,150	34,310	60,302
Public administration										
Federal, state, and local government	90	61,986	73,890	57,280	71,060	68,879	62,670	65,330	<	60,321

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Total	Computer programmers	Drafters	Science [1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Total		21.71	28.86	18.68	17.11	18.66	19.81	19.93	17.84	17.49
Agriculture, forestry, and fishing										
Agricultural services	07	14.49	<	16.75	12.52	<	<	<	<	<
Mining										
Metal mining	10	19.24	<	<	18.93	19.62	20.43	<	18.28	19.71
Coal mining	12	21.80	<	<	24.49	19.59	<	<	<	19.59
Oil and gas extraction	13	21.93	31.73	22.60	21.08	19.74	18.69	21.83	22.62	19.42
Nonmetallic minerals, except fuels	14	18.65	26.42	<	17.13	19.23	<	<	<	18.76
Construction										
General building contractors	15	18.55	28.52	17.26	<	18.96	21.66	19.86	19.41	18.33
Heavy construction, excluding building	16	19.18	35.39	19.39	<	17.45	21.24	17.29	15.39	17.91
Special trade contractors	17	19.26	25.21	19.28	17.13	18.42	16.73	21.89	20.65	19.25
Total manufacturing										
Food and kindred products	20	17.48	25.26	18.68	15.32	19.72	18.87	20.63	<	19.34
Tobacco products	21	22.72	22.63	<	22.84	<	<	<	<	<
Textile mill products	22	18.12	23.74	<	13.88	16.80	17.88	18.96	<	16.21
Apparel and other textile products	23	22.53	25.39	18.48	16.23	17.79	<	19.58	<	17.17
Lumber and wood products	24	18.52	22.27	16.77	18.26	18.34	19.62	21.14	<	17.40
Furniture and fixtures	25	18.10	19.86	17.58	19.56	16.87	<	17.39	<	16.75
Paper and allied products	26	21.94	26.36	19.61	17.81	22.17	22.86	21.15	<	22.30
Printing and publishing	27	23.63	25.06	<	<	18.27	19.94	<	<	17.58
Chemicals and allied products	28	19.84	27.79	19.68	19.03	21.36	19.91	20.73	<	22.41
Petroleum and coal products	29	21.95	27.51	22.40	20.43	24.90	<	<	<	24.90
Rubber and misc. plastics products	30	18.21	19.94	19.36	15.19	18.41	18.99	19.23	<	17.61
Leather and leather products	31	22.50	26.22	<	17.84	<	<	<	<	<
Stone, clay and glass products	32	18.62	25.95	17.44	17.11	18.41	18.84	18.42	17.34	18.23
Primary metal industries	33	18.95	20.74	18.54	17.41	19.30	20.54	18.66	<	18.53
Fabricated metal products	34	18.82	20.39	18.05	17.36	19.06	20.58	19.76	17.80	17.75
Industrial machinery and equipment	35	21.81	27.56	18.55	19.00	19.18	19.19	18.67	<	19.71
Electronic & other electric equipment	36	19.05	27.60	19.54	16.76	18.21	17.69	20.96	23.60	19.34
Transportation equipment	37	23.07	22.99	23.43	22.62	23.02	21.47	19.98	<	24.17
Instruments and related products	38	21.73	27.99	20.37	17.72	19.65	18.36	19.30	21.44	22.85
Miscellaneous manufacturing industries	39	18.65	21.28	17.98	16.54	17.91	17.47	18.87	<	17.96

See explanatory information and SOURCE at end of table.

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
						Engineering technicians				
		Total	Computer programmers	Drafters	Science [1]	Total	Electrical/ electronic	Mechanical	Civil	Other
Transportation, communications, and utilities										
Railroad transportation	40	19.92	28.31	<	<	19.67	22.61	<	<	19.46
Local and interurban transit	41	16.46	28.14	<	<	14.00	<	<	<	14.00
Trucking and warehousing	42	20.74	24.44	<	<	13.65	<	<	<	13.65
Water transportation	44	26.36	30.18	<	<	20.86	<	<	<	20.86
Transportation by air	45	23.13	25.55	<	<	22.85	22.14	17.33	<	22.94
Pipelines, except natural gas	46	27.26	31.04	<	<	26.11	25.00	<	<	<
Transportation services	47	20.64	24.62	<	<	15.90	22.45	<	<	15.53
Communications	48	18.76	27.68	20.21	<	18.02	22.27	22.96	23.05	15.26
Utilities and sanitary services	49	24.37	27.88	24.32	25.18	23.35	24.17	25.12	23.69	21.95
Wholesale trade										
Wholesale trade, durable goods	50	24.53	30.63	17.73	14.51	19.82	19.94	19.52	<	17.80
Wholesale trade, nondurable goods	51	23.93	28.04	21.50	16.57	20.42	19.78	19.04	<	22.89
Retail trade										
Building materials and garden supplies	52	19.54	26.19	17.47	<	<	<	<	<	<
General merchandise stores	53	22.99	26.58	19.36	<	16.43	16.04	16.56	<	<
Food stores	54	21.67	22.76	16.60	<	12.88	<	<	<	12.88
Automotive dealers and service stations	55	20.14	26.72	<	<	13.05	15.61	<	<	11.72
Apparel and accessory stores	56	25.51	26.39	18.70	<	<	<	<	<	<
Furniture and homefurnishings stores	57	25.80	26.21	24.60	<	16.82	17.85	<	<	13.52
Eating and drinking places	58	<	<	<	<	<	<	<	<	<
Misc. retail stores	59	25.40	26.15	<	<	14.52	15.18	<	<	12.54
Finance, insurance, and real estate										
Depository institutions	60	29.09	29.12	<	<	<	<	<	<	<
Nondepository institutions	61	28.31	28.31	<	<	<	<	<	<	<
Security and commodity brokers	62	33.21	33.21	<	<	<	<	<	<	<
Insurance carriers	63	27.45	27.69	<	24.72	15.08	<	<	<	15.08
Insurance agents, brokers, and service	64	26.40	26.74	<	<	14.65	<	<	<	14.65
Real estate	65	24.82	29.47	21.79	<	16.79	16.54	15.47	17.70	16.81
Holding and other investment offices	67	25.77	28.69	<	13.22	21.02	20.01	<	20.33	21.44

See explanatory information and SOURCE at end of table.

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
						Engineering technicians				
		Total	Computer programmers	Drafters	Science [1]	Total	Electrical/ electronic	Mechanical	Civil	Other
Services										
Hotels and other lodging places	70	17.44	25.17	<	<	15.97	18.57	<	<	15.48
Personal services	72	26.50	27.06	<	<	<	<	<	<	<
Business services	73	29.03	30.81	19.95	16.82	20.45	18.07	19.96	<	24.94
Auto repair, services, and parking	75	20.82	26.88	30.78	<	11.04	20.14	<	<	8.50
Misc. repair services	76	17.68	22.55	18.34	<	17.21	17.20	<	<	17.52
Motion pictures	78	22.13	27.06	<	<	21.61	25.53	<	<	21.21
Amusement and recreation services	79	17.47	26.32	<	<	15.92	19.78	<	<	15.20
Health services	80	20.93	25.16	20.11	14.18	17.41	19.24	19.81	16.37	15.06
Legal services	81	27.30	27.30	<	<	<	<	<	<	<
Educational services	82	20.29	22.06	<	16.00	15.03	<	<	<	15.03
Social services	83	19.65	19.79	<	15.22	<	<	<	<	<
Museums, botanical, zoological gardens	84	17.98	25.43	<	<	13.94	<	<	<	13.94
Membership organizations	86	21.64	25.30	16.62	14.20	12.91	<	<	<	12.91
Engineering and management services	87	18.49	29.59	17.85	15.75	17.53	19.94	20.10	18.00	16.29
Services, n.e.c.	89	19.75	28.96	20.30	16.59	16.82	18.97	<	16.23	16.04
Public administration										
Federal, state, and local government	90	18.96	23.46	17.93	15.87	19.53	22.98	21.08	17.14	19.96

[1] The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science [1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Total		45,739	60,025	38,857	35,577	40,359	41,210	41,460	37,110	40,423
Agriculture, forestry, and fishing										
Agricultural services	07	30,139	<	34,830	26,053	<	<	<	<	<
Mining										
Metal mining	10	40,021	<	<	39,376	40,813	42,500	<	38,020	40,997
Coal mining	12	45,346	<	<	50,939	40,740	<	<	<	40,740
Oil and gas extraction	13	45,606	65,990	47,010	43,843	41,053	38,865	45,400	47,050	40,389
Nonmetallic minerals, except fuels	14	38,795	54,950	<	35,632	39,995	<	<	<	39,021
Construction										
General building contractors	15	38,594	59,330	35,910	<	39,445	45,060	41,300	40,380	38,124
Heavy construction, excluding building	16	39,887	73,600	40,328	<	36,304	44,180	35,950	32,000	37,254
Special trade contractors	17	40,062	52,450	40,106	35,639	38,319	34,800	45,520	42,940	40,051
Total manufacturing										
Food and kindred products	20	36,368	52,530	38,850	31,866	41,011	39,251	42,910	<	40,223
Tobacco products	21	47,256	47,080	<	47,506	<	<	<	<	<
Textile mill products	22	37,695	49,390	<	28,870	34,948	37,190	39,430	<	33,720
Apparel and other textile products	23	46,859	52,820	38,430	33,760	36,995	<	40,720	<	35,710
Lumber and wood products	24	38,510	46,315	34,886	37,978	38,156	40,800	43,970	<	36,201
Furniture and fixtures	25	37,651	41,300	36,580	40,690	35,096	<	36,170	<	34,840
Paper and allied products	26	45,644	54,840	40,780	37,045	46,115	47,559	43,980	<	46,398
Printing and publishing	27	49,155	52,135	<	<	38,005	41,492	<	<	36,565
Chemicals and allied products	28	41,278	57,800	40,928	39,594	44,433	41,410	43,120	<	46,603
Petroleum and coal products	29	45,662	57,220	46,600	42,505	51,778	<	<	<	51,778
Rubber and misc. plastics products	30	37,880	41,468	40,272	31,591	38,302	39,494	39,990	<	36,624
Leather and leather products	31	46,788	54,530	<	37,110	<	<	<	<	<
Stone, clay and glass products	32	38,741	53,970	36,263	35,601	38,302	39,192	38,320	36,070	37,911
Primary metal industries	33	39,415	43,141	38,572	36,211	40,143	42,721	38,810	<	38,543
Fabricated metal products	34	39,144	42,400	37,541	36,095	39,638	42,808	41,110	37,010	36,910
Industrial machinery and equipment	35	45,376	57,329	38,600	39,525	39,902	39,911	38,840	<	40,997
Electronic & other electric equipment	36	39,617	57,406	40,639	34,860	37,884	36,803	43,600	49,090	40,226
Transportation equipment	37	47,978	47,827	48,732	47,046	47,887	44,655	41,570	<	50,277
Instruments and related products	38	45,210	58,225	42,372	36,857	40,865	38,200	40,130	44,600	47,534
Miscellaneous manufacturing industries	39	38,785	44,258	37,393	34,410	37,261	36,330	39,250	<	37,352

See explanatory information and SOURCE at end of table.

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science [1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Transportation, communications, and utilities										
Railroad transportation	40	41,427	58,880	<	<	40,914	47,040	<	<	40,480
Local and interurban transit	41	34,235	58,530	<	<	29,120	<	<	<	29,120
Trucking and warehousing	42	43,125	50,830	<	<	28,380	<	<	<	28,380
Water transportation	44	54,833	62,780	<	<	43,390	<	<	<	43,390
Transportation by air	45	48,123	53,140	<	<	47,527	46,040	36,040	<	47,729
Pipelines, except natural gas	46	56,718	64,570	<	<	54,328	52,010	<	<	<
Transportation services	47	42,924	51,200	<	<	33,068	46,700	<	<	32,281
Communications	48	39,029	57,570	42,032	<	37,484	46,320	47,760	47,950	31,759
Utilities and sanitary services	49	50,694	57,986	50,592	52,363	48,559	50,279	52,250	49,270	45,648
Wholesale trade										
Wholesale trade, durable goods	50	51,008	63,701	36,870	30,187	41,220	41,469	40,590	<	37,009
Wholesale trade, nondurable goods	51	49,771	58,320	44,730	34,462	42,467	41,147	39,600	<	47,597
Retail trade										
Building materials and garden supplies	52	40,640	54,470	36,330	<	<	<	<	<	<
General merchandise stores	53	47,829	55,290	40,270	<	34,164	33,370	34,440	<	<
Food stores	54	45,073	47,340	34,530	<	26,800	<	<	<	26,800
Automotive dealers and service stations	55	41,902	55,580	<	<	27,144	32,480	<	<	24,370
Apparel and accessory stores	56	53,049	54,880	38,890	<	<	<	<	<	<
Furniture and homefurnishings stores	57	53,670	54,520	51,170	<	34,985	37,130	<	<	28,120
Eating and drinking places	58	<	<	<	<	<	<	<	<	<
Misc. retail stores	59	52,814	54,380	<	<	30,201	31,570	<	<	26,090
Finance, insurance, and real estate										
Depository institutions	60	60,517	60,570	<	<	<	<	<	<	<
Nondepository institutions	61	58,880	58,880	<	<	<	<	<	<	<
Security and commodity brokers	62	69,070	69,070	<	<	<	<	<	<	<
Insurance carriers	63	57,099	57,600	<	51,410	31,378	<	<	<	31,378
Insurance agents, brokers, and service	64	54,918	55,620	<	<	30,470	<	<	<	30,470
Real estate	65	51,643	61,310	45,320	<	34,925	34,410	32,170	36,810	34,979
Holding and other investment offices	67	53,588	59,670	<	27,499	43,707	41,620	<	42,280	44,586

See explanatory information and SOURCE at end of table.

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2000

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science [1]	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Services										
Hotels and other lodging places	70	36,274	52,350	<	<	33,218	38,632	<	<	32,210
Personal services	72	55,116	56,280	<	<	<	<	<	<	<
Business services	73	60,383	64,096	41,487	34,980	42,538	37,593	41,530	<	51,864
Auto repair, services, and parking	75	43,314	55,920	64,020	<	22,966	41,885	<	<	17,680
Misc. repair services	76	36,768	46,900	38,158	<	35,797	35,762	<	<	36,445
Motion pictures	78	46,031	56,280	<	<	44,938	53,110	<	<	44,114
Amusement and recreation services	79	36,331	54,740	<	<	33,103	41,130	<	<	31,610
Health services	80	43,536	52,340	41,824	29,505	36,208	40,008	41,200	34,050	31,331
Legal services	81	56,780	56,780	<	<	<	<	<	<	<
Educational services	82	42,192	45,880	<	33,270	31,274	<	<	<	31,274
Social services	83	40,889	41,170	<	31,670	<	<	<	<	<
Museums, botanical, zoological gardens	84	37,409	52,900	<	<	29,000	<	<	<	29,000
Membership organizations	86	45,018	52,630	34,560	29,541	26,853	<	<	<	26,853
Engineering and management services	87	38,456	61,540	37,115	32,760	36,460	41,470	41,810	37,440	33,894
Services, n.e.c.	89	41,078	60,250	42,220	34,496	34,989	39,460	<	33,750	33,352
Public administration										
Federal, state, and local government	90	39,437	48,800	37,293	33,001	40,622	47,802	43,840	35,650	41,530

[1] The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = Too few cases to estimate.
n.e.c. = Not elsewhere classified.
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/ Bureau of Labor Statistics, Occupational Employment Statistics Survey estimates for 2-digit and 3-digit SIC industry groups.

Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error[1]
			Mean	Median	
All SET occupations		5,718,200	28.28	(nc)	1
Managers of scientific and technical personnel		564,600	39.61	(nc)	1
Computer and information systems managers	11-3021	283,500	38.58	37.90	<
Engineering managers	11-9041	242,300	41.08	40.42	<
Natural sciences managers	11-9121	38,900	37.91	36.48	<
Scientists		2,173,500	29.33	(nc)	1
Computer scientists		1,481,600	30.77	(nc)	1
Computer and information scientists, research	15-1011	25,800	35.30	33.94	<
Computer software, applications	15-1031	374,600	33.80	32.53	<
Computer software, systems	15-1032	264,600	34.08	33.43	<
Computer systems analysts	15-1051	463,300	29.43	28.53	<
Network and computer systems administrators	15-1071	234,000	25.81	24.65	<
Network systems/data communications analysts	15-1081	119,200	27.83	26.20	<
Life scientists		123,000	26.47	(nc)	1
Agricultural scientists	19-1010	21,100	26.29	25.08	<
Biochemists and biophysicists	19-1021	13,400	28.40	26.07	1
Conservation scientists	19-1031	13,000	22.99	22.67	<
Epidemiologists	19-1041	2,500	24.82	23.27	<
Foresters	19-1032	9,900	21.62	20.98	<
Medical scientists, except epidemiologists	19-1042	35,600	30.49	27.79	2
Microbiologists	19-1022	15,900	25.50	23.51	1
Zoologists and wildlife biologists	19-1023	11,700	21.94	21.15	<
Mathematical scientists		93,400	28.61	(nc)	<
Actuaries	15-2011	12,900	34.84	32.02	1
Mathematicians	15-2021	3,100	32.58	33.00	<
Operations and systems researchers and analysts	15-2031	59,800	27.74	25.69	1
Statisticians	15-2041	17,500	26.26	25.00	1
Physical scientists		192,100	26.70	(nc)	<
Astronomers	19-2011	900	35.37	35.82	<
Atmospheric and space scientists	19-2021	7,300	28.01	28.13	<
Chemists	19-2031	82,300	26.10	24.07	1
Environmental scientists and specialists, including health	19-2041	54,900	23.12	21.24	<
Geoscientists, except hydrologists and geographers	19-2042	21,800	30.01	27.04	1
Hydrologists	19-2043	7,200	27.64	26.64	<
Materials scientists	19-2032	8,700	30.28	29.14	1
Physicists	19-2012	9,000	39.90	40.06	<

See explanatory information and SOURCE at end of table.

Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error[1]
			Mean	Median	
Social scientists		283,500	25.10	(nc)	1
Anthropologists and archeologists	19-3091	4,100	18.87	17.33	<
Clinical, counseling, and school psychologists	19-3031	103,100	24.28	23.23	1
Economists	19-3011	13,700	33.56	31.17	1
Geographers	19-3092	700	23.48	22.45	<
Historians	19-3093	1,900	20.25	19.16	<
Industrial-Organizational psychologists	19-3032	1,300	33.22	32.15	<
Market research analysts	19-3021	99,000	27.21	24.61	1
Political scientists	19-3094	4,300	37.92	38.96	<
Sociologists	19-3041	1,400	24.16	21.96	<
Survey researchers	19-3022	25,200	16.44	12.60	1
Urban and regional planners	19-3051	28,900	23.36	22.36	<
Engineers		1,285,800	30.20	(nc)	1
Aeronautical	17-2011	71,600	33.19	32.66	<
Civil	17-2051	207,100	28.07	26.80	<
Computer	17-2061	63,700	33.70	32.36	<
Electrical/electronics		286,100	31.92	(nc)	<
Electrical	17-2071	162,400	31.89	31.21	1
Electronics	17-2072	123,700	31.97	31.17	<
Industrial	17-2112	171,800	28.80	28.16	<
Mechanical	17-2141	207,300	29.26	28.23	<
Sales	41-9031	88,200	29.54	27.17	<
Other engineers		190,000	30.23	(nc)	1
Agricultural	17-2021	2,200	28.29	26.85	<
Biomedical	17-2031	6,600	29.36	27.63	<
Chemical	17-2041	31,500	32.29	31.71	<
Environmental	17-2081	48,300	28.70	27.78	<
Marine	17-2121	4,700	29.57	29.27	<
Metallurgical/metallurgists	17-2131	24,400	29.05	28.41	<
Mining and geological	17-2151	6,700	30.96	29.24	1
Nuclear	17-2161	12,600	37.87	38.15	<
Petroleum	17-2171	10,300	38.42	37.94	<
Safety	17-2111	42,800	27.08	26.26	1

See explanatory information and SOURCE at end of table.

Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error[1]
			Mean	Median	
Technicians		1,694,300	21.71	(nc)	1
Computer, numerical tool, and process control programmers		553,200	28.86	(nc)	<
Computer programmers	15-1021	530,700	29.31	27.69	1
Numerical tool and process control programmers	51-4012	22,500	18.12	17.70	<
Drafters		200,700	18.68	(nc)	<
Architectural and civil drafters	17-3011	92,600	17.84	16.93	1
Electrical and electronics drafters	17-3012	38,500	19.43	18.37	1
Mechanical drafters	17-3013	69,600	19.39	18.19	1
Engineering technicians		634,400	18.66	(nc)	1
Aerospace engineering and operations technicians	17-3021	19,900	0.24	23.37	<
Civil engineering technicians	17-3022	89,200	17.84	17.30	<
Electronical/electronics engineering technicians	17-3023	244,600	19.81	19.24	1
Electro-mechanical technicians	17-3024	40,800	18.57	17.38	1
Environmental engineering technicians	17-3025	17,500	17.55	16.35	<
Industrial engineering technicians	17-3026	65,200	21.31	19.67	<
Mechanical engineering technicians	17-3027	58,500	19.93	19.03	<
All other engineering technicians		98,800	17.97	(nc)	1
Audio and video equipment technicians	27-4011	34,100	17.72	14.57	2
Broadcast technicians	27-4012	33,600	15.89	12.96	2
Traffic technicians	53-6041	4,600	16.19	14.82	<
Transportation inspectors	53-6051	26,500	21.25	21.68	1
Mathematical technicians	15-2019	1,500	20.10	16.73	<
Physical and life science technicians		192,700	17.19	(nc)	<
Agricultural and food science technicians	19-4011	15,300	14.34	13.02	1
Biological technicians	19-4021	41,700	15.85	15.16	<
Chemical technicians, except health	19-4031	74,200	17.83	17.05	1
Environmental science and protection technicians, including health	19-4091	24,600	17.23	16.26	<
Forensic science technicians	19-4092	6,200	18.95	18.04	<
Forest and conservation technicians	19-4093	15,500	15.01	14.22	<
Geological and petroleum technicians	19-4041	11,100	19.11	17.55	1
Nuclear technicians	19-4051	4,100	29.79	28.44	<
Surveying, cartographic, photogrammetric, and mapping technicians		111,800	16.93	(nc)	<
Cartographers and photogrammetrists	17-1021	7,400	19.98	18.95	<
Surveying and mapping technicians	17-3031	51,600	14.61	13.48	1
Surveyors	17-1022	52,800	18.78	17.64	1

[1] Relative standard error of the estimate of the mean hourly wage, expressed as a percentage

KEY: < = The estimated actual value is less than 0.5 for percentages.
(nc) = Not computed. Median wages available only for detailed occupations.
SOC = Standard Occupational Classification. See Technical Notes for explanation.

NOTE: Wage data are derived entirely from total occupation estimates. Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars)	
			Mean	Median
All SET occupations		5,718,200	59,002	(nc)
Managers of scientific and technical personnel		564,600	82,385	(nc)
Computer and information systems managers	11-3021	283,500	80,250	78,830
Engineering managers	11-9041	242,300	85,450	84,070
Natural sciences managers	11-9121	38,900	78,850	75,880
Scientists		2,173,500	61,011	(nc)
Computer scientists		1,481,600	63,995	(nc)
Computer and information scientists, research	15-1011	25,800	73,430	70,590
Computer software, applications	15-1031	374,600	70,300	67,670
Computer software, systems	15-1032	264,600	70,890	69,530
Computer systems analysts	15-1051	463,300	61,210	59,330
Network and computer systems administrators	15-1071	234,000	53,690	51,280
Network systems/data communications analysts	15-1081	119,200	57,890	54,510
Life scientists		123,000	55,051	(nc)
Agricultural scientists	19-1010	21,100	54,680	52,160
Biochemists and biophysicists	19-1021	13,400	59,070	54,230
Conservation scientists	19-1031	13,000	47,820	47,140
Epidemiologists	19-1041	2,500	51,630	48,390
Foresters	19-1032	9,900	44,970	43,640
Medical scientists, except epidemiologists	19-1042	35,600	63,430	57,810
Microbiologists	19-1022	15,900	53,040	48,890
Zoologists and wildlife biologists	19-1023	11,700	45,630	43,980
Mathematical scientists		93,400	59,502	(nc)
Actuaries	15-2011	12,900	72,470	66,590
Mathematicians	15-2021	3,100	67,770	68,640
Operations and systems researchers and analysts	15-2031	59,800	57,700	53,420
Statisticians	15-2041	17,500	54,630	51,990
Physical scientists		192,100	55,536	(nc)
Astronomers	19-2011	900	73,580	74,510
Atmospheric and space scientists	19-2021	7,300	58,270	58,510
Chemists	19-2031	82,300	54,280	50,080
Environmental scientists and specialists, including health	19-2041	54,900	48,090	44,180
Geoscientists, except hydrologists and geographers	19-2042	21,800	62,420	56,230
Hydrologists	19-2043	7,200	57,490	55,410
Materials scientists	19-2032	8,700	62,980	60,620
Physicists	19-2012	9,000	82,990	83,310

See explanatory information and SOURCE at end of table.

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars)	
			Mean	Median
Social scientists		283,500	52,205	(nc)
Anthropologists and archeologists	19-3091	4,100	39,250	36,040
Clinical, counseling, and school psychologists	19-3031	103,100	50,510	48,320
Economists	19-3011	13,700	69,800	64,830
Geographers	19-3092	700	48,840	46,690
Historians	19-3093	1,900	42,120	39,860
Industrial-Organizational psychologists	19-3032	1,300	69,090	66,880
Market research analysts	19-3021	99,000	56,600	51,190
Political scientists	19-3094	4,300	78,870	81,040
Sociologists	19-3041	1,400	50,250	45,670
Survey researchers	19-3022	25,200	34,180	26,200
Urban and regional planners	19-3051	28,900	48,590	46,500
Engineers		1,285,800	62,815	(nc)
Aeronautical	17-2011	71,600	69,040	67,930
Civil	17-2051	207,100	58,380	55,740
Computer	17-2061	63,700	70,100	67,300
Electrical/electronics		286,100	66,393	(nc)
Electrical	17-2071	162,400	66,320	64,910
Electronics	17-2072	123,700	66,490	64,830
Industrial	17-2112	171,800	59,900	58,580
Mechanical	17-2141	207,300	60,860	58,710
Sales	41-9031	88,200	61,450	56,520
Other engineers		190,000	62,879	(nc)
Agricultural	17-2021	2,200	58,840	55,850
Biomedical	17-2031	6,600	61,060	57,480
Chemical	17-2041	31,500	67,160	65,960
Environmental	17-2081	48,300	59,710	57,780
Marine	17-2121	4,700	61,500	60,890
Metallurgical/metallurgists	17-2131	24,400	60,420	59,100
Mining and geological	17-2151	6,700	64,390	60,820
Nuclear	17-2161	12,600	78,770	79,360
Petroleum	17-2171	10,300	79,910	78,910
Safety	17-2111	42,800	56,340	54,630

See explanatory information and SOURCE at end of table.

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2000

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars) Mean	Median
Technicians		1,694,300	45,739	(nc)
Computer, numerical tool, and process control programmers		553,200	60,025	(nc)
Computer programmers	15-1021	530,700	60,970	57,590
Numerical tool and process control programmers	51-4012	22,500	37,690	36,810
Drafters		200,700	38,857	(nc)
Architectural and civil drafters	17-3011	92,600	37,100	35,220
Electrical and electronics drafters	17-3012	38,500	40,420	38,210
Mechanical drafters	17-3013	69,600	40,330	37,840
Engineering technicians		634,400	40,359	(nc)
Aerospace engineering and operations technicians	17-3021	19,900	49,920	48,600
Civil engineering technicians	17-3022	89,200	37,110	35,990
Electronical/electronics engineering technicians	17-3023	244,600	41,210	40,020
Electro-mechanical technicians	17-3024	40,800	38,630	36,150
Environmental engineering technicians	17-3025	17,500	36,500	34,000
Industrial engineering technicians	17-3026	65,200	44,330	40,910
Mechanical engineering technicians	17-3027	58,500	41,460	39,570
All other engineering technicians		98,800	37,391	(nc)
Audio and video equipment technicians	27-4011	34,100	36,860	30,310
Broadcast technicians	27-4012	33,600	33,060	26,950
Traffic technicians	53-6041	4,600	33,670	30,830
Transportation inspectors	53-6051	26,500	44,200	45,090
Mathematical technicians	15-2019	1,500	41,800	34,800
Physical and life science technicians		192,700	35,744	(nc)
Agricultural and food science technicians	19-4011	15,300	29,820	27,080
Biological technicians	19-4021	41,700	32,970	31,540
Chemical technicians, except health	19-4031	74,200	37,080	35,450
Environmental science and protection technicians, including health	19-4091	24,600	35,830	33,830
Forensic science technicians	19-4092	6,200	39,410	37,520
Forest and conservation technicians	19-4093	15,500	31,210	29,580
Geological and petroleum technicians	19-4041	11,100	39,760	36,490
Nuclear technicians	19-4051	4,100	61,970	59,160
Surveying, cartographic, photogrammetric, and mapping technicians		111,800	35,214	(nc)
Cartographers and photogrammetrists	17-1021	7,400	41,560	39,410
Surveying and mapping technicians	17-3031	51,600	30,380	28,030
Surveyors	17-1022	52,800	39,060	36,700

KEY: (nc) = Not computed. Median wages available only for detailed occupations.
SOC = Standard Occupational Classification. See Technical Notes for explanation.

NOTE: Wage data are derived entirely from total occupation estimates. Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. Since the annual figures are calculated directly from the hourly figures, the relative standard error has not been calculated separately for the mean annual wages entries. See Technical Notes for more detail.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey.