

Science and Engineering Doctorate Awards: 2003

Detailed Statistical Tables

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National Science Foundation

December 2004

National Science Foundation

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Suggested Citation

National Science Foundation, Division of Science Resources Statistics, *Science and Engineering Doctorate Awards: 2003*, NSF 05-300, Project Officer, Joan S. Burrelli (Arlington, VA 2004).

December 2004

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ACKNOWLEDGMENTS

The development of *Science and Engineering Doctorate Awards: 2003* was managed by Joan Burrelli, Acting Director, Doctorate Data Project, National Science Foundation (NSF), Division of Science Resources Statistics (SRS), Human Resources Statistics Program (HRS), under the overall direction of Nancy L. Leach, Program Director, HRS, and Mary J. Frase, Deputy Division Director, SRS. Rolfe W. Larson and Tanya R. Gore, under the direction of John R. Gawalt, Program Director, Information and Technology Services Program, prepared the report for publication, providing oversight and direction for editing, composition, printing, and release on the SRS Web site (www.nsf.gov/statistics/). ORC Division of Macro International Inc. prepared the tables. ORC staff members who worked on this project were Laura Williams, Cheryl Lloyd, Teresa Grimes, and Mark Morgan.

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GENERAL NOTES

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED). The data were developed as part of the Doctorate Data Project. The Doctorate Data Project consists of the Survey of Earned Doctorates (a census of research doctorate recipients) and the Survey of Doctorate Recipients (a biennial survey of the employment of doctoral scientists and engineers).

The SED has been conducted annually for the National Science Foundation (NSF) and five other Federal agencies. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally accredited universities and colleges in the United States. Doctoral degrees such as the Ph.D. or D.Sc. are included in these surveys, but first professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed through the cooperation of the graduate deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on S&E doctorate recipients, with some totals provided for broad non-S&E

fields in most tables. Detailed data on all fields of study are published in the interagency report *Doctorate Recipients from United States Universities: Summary Report 2003*. Data are also provided by the other Federal agencies that sponsor the Survey of Earned Doctorates; the groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions.

Over 91 percent of the doctorate recipients in 2003 responded to the questionnaire. Over the period 1994–2003, the response rate varied between 91 and 95 percent. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file; therefore, more complete counts are presented for conferred doctorates by field of study and sex of recipient. Because some tables present data subject to nonresponse, these summaries represent the conservative known responses for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates and declines and increases may appear greater than they may be in reality.

For further information on the survey methodology or the availability of data on S&E doctorate recipients, please go to <http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm>.

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TABLE 1. Doctorates awarded, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	41,034	41,748	42,436	42,540	42,645	41,090	41,357	40,808	39,964	40,710
Science and engineering ¹	26,204	26,535	27,240	27,232	27,278	25,932	25,966	25,540	24,571	25,258
Engineering	5,821	6,008	6,309	6,115	5,924	5,330	5,321	5,502	5,071	5,265
Aeronautical/astronautical engineering	230	252	287	273	241	206	214	203	208	199
Chemical engineering	725	708	798	767	776	674	725	728	705	643
Chemical	630	602	681	662	669	576	618	634	607	562
Petroleum	42	48	52	51	48	45	45	37	45	36
Polymer/plastics	53	58	65	54	59	53	62	57	53	45
Civil engineering	683	656	698	655	650	584	556	594	625	672
Civil	601	572	600	592	587	506	480	500	538	550
Environmental health	82	84	98	63	63	78	76	94	87	122
Electrical engineering	1,673	1,731	1,741	1,720	1,596	1,478	1,544	1,576	1,392	1,463
Communications	33	29	32	33	40	39	42	47	21	36
Computer	202	189	208	227	210	203	172	186	164	191
Electrical/electronics	1,438	1,513	1,501	1,460	1,346	1,236	1,330	1,343	1,207	1,236
Industrial/manufacturing engineering	228	284	259	246	229	211	176	205	230	211
Materials/metallurgical engineering	539	588	574	582	565	469	451	497	396	473
Ceramic sciences	39	39	41	39	24	33	22	17	13	18
Materials science	433	476	472	483	482	393	404	448	364	437
Metallurgical	67	73	61	60	59	43	25	32	19	18
Mechanical engineering	1,015	1,025	1,052	1,022	1,022	855	864	953	827	814
Engineering mechanics	132	108	105	93	86	68	57	75	56	63
Mechanical	883	917	947	929	936	787	807	878	771	751
Other engineering	728	764	900	850	845	853	791	746	688	790
Agricultural	89	73	104	79	74	59	60	52	50	54
Bioengineering/biomedical	173	189	220	211	208	245	252	232	246	280
Engineering physics	17	17	37	24	15	28	26	22	16	28
Engineering science	46	56	52	45	49	49	34	53	31	39
Mining/mineral	23	19	31	33	21	18	10	10	8	13
Nuclear	85	105	113	103	96	76	98	75	64	75
Ocean	29	21	26	34	29	16	18	28	23	12
Operations research	47	48	74	74	62	67	51	55	66	80
Systems	51	47	47	49	68	42	34	47	45	46
Engineering, general	39	60	60	51	29	40	42	25	19	20
Engineering, other	129	129	136	147	194	213	166	147	120	143
Sciences ¹	20,383	20,527	20,931	21,117	21,354	20,602	20,645	20,038	19,500	19,993
Biological/agricultural sciences	6,280	6,412	6,758	6,771	6,882	6,548	6,797	6,543	6,580	6,616
Agricultural sciences	1,078	1,036	1,035	982	1,037	966	943	853	893	922
Agronomy and crop science	143	114	110	77	97	106	70	75	74	55
Animal breeding/genetics	17	19	12	24	18	21	22	16	14	21
Animal nutrition	58	50	54	55	45	47	45	45	49	41
Dairy science	11	14	9	14	10	12	9	2	7	18
Poultry science	21	11	11	9	11	8	9	11	10	17
Animal sciences, other	86	85	90	62	60	70	73	71	70	88

TABLE 1. Doctorates awarded, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Fisheries science and management	48	49	46	45	30	38	43	44	53	47
Wildlife/range management	52	50	64	50	56	44	56	40	37	45
Food engineering	16	7	7	11	13	7	10	13	7	11
Food sciences, other	153	135	142	175	153	137	142	130	129	157
Forest biology	20	24	19	22	20	14	22	27	19	16
Forest engineering	NA	4	NA	13	2	1	3	0	3	3
Forest management	17	20	22	21	27	17	13	13	14	18
Wood science and pulp/paper technology	26	26	18	25	25	21	11	20	29	19
Conservation/renewable natural resources	21	24	13	17	25	25	19	32	27	47
Forestry and related sciences, other	59	71	55	50	69	50	54	48	56	47
Horticulture science	65	67	73	44	60	66	55	37	46	54
Plant breeding/genetics	81	72	63	67	69	44	68	37	59	50
Plant pathology	55	52	90	65	66	66	63	51	53	48
Plant sciences, other	24	30	21	20	37	38	29	26	27	29
Soil chemistry/microbiology	21	27	29	32	27	29	26	23	29	24
Soil sciences, other	69	72	78	56	74	67	64	56	54	50
Agricultural sciences, general	4	6	5	10	8	8	10	2	4	2
Agricultural sciences, other	11	7	4	18	35	30	27	34	23	15
Biological sciences	5,202	5,376	5,723	5,789	5,845	5,582	5,854	5,690	5,687	5,694
Bacteriology	18	13	16	13	13	13	15	17	12	6
Biochemistry	804	824	794	832	800	760	776	727	781	772
Biomedical sciences ²	NA	93	141	158	182	176	155	155	219	183
Biophysics	123	155	142	147	166	173	164	162	151	161
Biotechnology research	14	4	6	11	12	19	14	9	13	24
Plant genetics	30	35	41	30	40	31	35	31	57	38
Plant pathology	40	32	38	33	18	36	25	31	24	27
Plant physiology	70	55	73	47	61	54	39	45	43	32
Botany, other	117	102	105	91	113	67	92	75	84	80
Anatomy	66	64	47	50	35	33	39	29	20	33
Biometrics/biostatistics	72	67	80	84	75	76	92	90	80	84
Cell biology	237	236	233	251	300	281	337	315	302	301
Developmental biology/embryology	62	64	96	115	127	108	111	107	93	125
Ecology	201	203	245	255	293	273	296	338	312	348
Endocrinology	26	20	24	17	30	19	20	18	14	21
Entomology	123	121	136	123	138	114	137	90	113	111
Biological immunology	161	190	238	214	245	223	239	266	278	261
Microbiology	423	426	444	410	383	383	382	396	382	363
Molecular biology	598	617	651	775	736	716	707	709	622	613
Neuroscience	284	308	404	437	413	431	495	485	489	472
Nutritional sciences	147	136	142	124	139	102	150	135	141	127
Parasitology	22	14	22	17	15	13	19	22	17	15
Toxicology	120	126	138	180	155	114	123	133	122	123
Human/animal genetics	203	202	212	217	197	216	228	198	225	225
Human/animal pathology	128	109	135	106	90	120	106	116	115	102
Human/animal pharmacology	259	278	316	300	255	254	267	257	268	274
Human/animal physiology	289	262	275	227	258	244	241	215	208	213
Zoology, other	117	145	100	97	111	126	133	103	122	127

TABLE 1. Doctorates awarded, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Biological sciences, general	288	348	291	209	217	182	200	195	184	196
Biological sciences, other	160	127	138	219	228	225	217	221	196	237
Earth, atmospheric, and ocean sciences	824	780	794	878	814	805	758	749	785	783
Atmospheric sciences	129	130	125	149	125	124	143	116	117	139
Atmospheric dynamics	27	16	21	25	24	17	17	17	13	21
Atmospheric physics/chemistry	27	27	22	45	38	43	39	33	39	39
Meteorology	32	25	35	28	25	22	34	20	15	25
Atmospheric science/meteorology, general	37	44	33	36	22	32	36	34	27	33
Atmospheric science/meteorology, other	6	18	14	15	16	10	17	12	23	21
Earth sciences	509	454	452	489	504	452	386	393	428	373
Geochemistry	59	42	49	49	58	55	49	41	70	53
Geology	194	186	162	165	171	157	123	115	132	119
Geomorphology/glacial geology	13	11	11	26	20	18	14	10	16	20
Geophysics/seismology	106	93	101	108	106	100	70	88	91	75
Hydrology/water resources	30	24	31	43	35	32	43	45	35	26
Mineralogy/petrology	21	19	23	19	14	14	5	15	13	8
Paleontology	17	20	14	23	23	15	31	16	22	18
Stratigraphy/sedimentation	27	16	12	23	24	17	13	13	7	16
Geological and related sciences, general	18	21	27	16	13	9	20	16	12	8
Geological and related sciences, other	24	22	22	17	40	35	18	34	30	30
Oceanography	125	115	134	144	112	130	134	121	128	133
Marine sciences	34	32	27	30	18	30	35	36	42	36
Oceanography	91	83	107	114	94	100	99	85	86	97
Other environmental sciences	61	81	83	96	73	99	95	119	112	138
Mathematics/computer science	2,021	2,187	2,042	2,032	2,104	1,938	1,909	1,833	1,725	1,860
Computer sciences	903	997	920	909	927	855	859	826	807	866
Computer science	833	913	836	828	821	741	722	688	673	698
Information science/systems	70	84	84	81	106	114	137	81	79	65
Computer and information science, other	NA	NA	NA	NA	NA	NA	NA	57	55	103
Mathematics	1,118	1,190	1,122	1,123	1,177	1,083	1,050	1,007	918	994
Algebra	78	82	78	78	75	84	82	68	65	68
Analysis/functional analysis	107	99	100	103	130	86	81	91	74	84
Applied mathematics	206	211	230	242	265	252	238	214	225	223
Computing theory	16	14	18	14	18	14	17	11	11	8
Geometry	35	45	72	70	54	65	59	40	52	48
Logic	29	35	16	23	16	23	19	24	14	18
Mathematical statistics	205	205	178	181	204	174	195	198	167	191
Number theory	37	35	42	46	46	50	40	35	26	46
Operations research	26	36	21	20	17	21	19	14	19	19
Topology	38	51	55	62	65	65	50	54	40	49
Mathematics, general	269	305	233	153	163	116	151	155	133	150
Mathematics, other	72	72	79	131	124	133	99	103	92	90
Physical sciences	3,977	3,841	3,839	3,769	3,824	3,579	3,407	3,393	3,209	3,320
Astronomy	144	173	192	198	206	159	185	186	144	167
Astronomy	66	89	84	71	91	59	78	89	54	69
Astrophysics	78	84	108	127	115	100	107	97	90	98

TABLE 1. Doctorates awarded, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Chemistry	2,257	2,162	2,149	2,148	2,216	2,132	1,989	1,980	1,923	2,037
Analytical	334	317	346	350	383	333	326	334	302	336
Inorganic	262	258	249	279	287	279	221	280	247	264
Medicinal/pharmaceutical	102	96	96	105	114	131	107	115	99	109
Nuclear	10	5	5	8	6	10	9	4	9	4
Organic	544	483	507	567	598	563	525	522	524	556
Physical	334	338	300	334	279	310	271	285	302	320
Polymer	117	116	121	110	122	95	107	107	102	110
Theoretical	52	40	57	48	41	56	52	40	48	49
Chemistry, general	447	458	396	261	285	196	261	201	204	186
Chemistry, other	55	51	72	86	101	159	110	92	86	103
Physics	1,548	1,479	1,485	1,401	1,378	1,271	1,204	1,197	1,124	1,080
Acoustics	20	18	19	19	18	16	10	10	18	25
Chemical and atomic/molecular	140	110	129	106	100	100	110	81	82	72
Elementary particle	176	183	176	170	173	169	147	121	156	134
Fluids	12	18	21	24	26	23	10	8	15	9
Nuclear	90	91	87	106	92	77	74	80	76	66
Optics	104	98	129	123	105	98	117	107	107	95
Plasma and high-temperature	79	46	48	39	55	49	38	39	29	32
Polymer	29	23	33	19	24	28	21	18	22	13
Solid state and low-temperature	388	371	364	328	314	307	279	295	298	272
Physics, general	343	355	323	255	190	202	224	206	172	172
Physics, other	167	166	156	212	281	202	174	232	149	190
Other physical sciences	28	27	13	22	24	17	29	30	18	36
Psychology	3,379	3,429	3,495	3,557	3,675	3,668	3,618	3,442	3,198	3,275
Clinical	1,285	1,290	1,327	1,255	1,344	1,441	1,353	1,262	1,218	1,184
Cognitive psychology and psycholinguistics	129	104	128	166	113	143	141	141	121	133
Comparative	8	4	3	6	6	11	7	5	2	4
Counseling	497	471	465	488	448	460	475	482	469	437
Developmental and child	179	152	188	215	267	193	203	193	171	178
Educational	69	74	92	61	61	64	97	48	54	52
Experimental	139	151	128	146	149	139	133	134	112	119
Family and marriage counseling ²	NA	57	51	63	51	56	54	45	67	62
Human/individual family development	129	150	151	126	119	135	147	137	138	150
Industrial/organizational	137	155	162	187	189	158	188	173	154	155
Personality	19	16	24	26	25	16	23	11	17	17
Physiological/psychobiology	93	92	80	77	92	87	89	92	88	85
Psychometrics	5	10	11	11	9	15	13	2	9	7
Quantitative	17	13	19	17	15	14	8	10	13	11
School	84	91	82	84	106	121	99	109	89	102
Social	153	155	170	181	186	176	207	198	179	202
Psychology, general	280	306	281	318	300	235	239	223	146	226
Psychology, other	156	138	133	130	195	204	142	177	151	151
Social sciences ¹	3,902	3,878	4,003	4,110	4,055	4,064	4,156	4,078	4,003	4,139
Economics	1,101	1,152	1,177	1,163	1,156	1,075	1,086	1,081	1,023	1,051
Agricultural economics	162	173	169	133	155	149	138	154	119	119

TABLE 1. Doctorates awarded, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Econometrics	26	27	29	31	25	15	15	13	14	23
Economics	913	952	979	999	976	911	933	914	890	909
Political science	930	894	928	975	959	1,016	987	984	938	1,026
International relations and affairs	112	73	99	88	96	119	77	91	82	99
Political science/government	589	599	622	665	662	655	669	658	606	660
Public administration	135	128	103	95	104	117	103	96	103	121
Public policy analysis	94	94	104	127	97	125	138	139	147	146
Sociology	548	555	528	601	579	572	637	577	565	612
Demography/population studies	23	15	11	24	30	28	20	12	20	15
Sociology	525	540	517	577	549	544	617	565	545	597
Other social sciences	1,323	1,277	1,370	1,371	1,361	1,401	1,446	1,436	1,477	1,450
American studies	88	94	115	84	100	98	113	127	97	94
Anthropology	384	375	397	434	425	463	446	410	495	472
Archaeology	34	35	21	35	34	26	36	40	26	33
Area studies	34	27	28	10	14	11	14	19	25	12
Criminology	41	44	60	49	55	51	66	62	56	76
Geography	146	150	165	149	154	144	197	186	197	168
History/philosophy of science and technology	27	41	37	35	44	50	42	40	46	46
Linguistics	221	201	230	244	220	251	230	230	195	224
Statistics	46	48	48	56	61	72	60	49	54	48
Urban affairs and studies	133	103	108	92	77	57	79	80	92	78
Social sciences, general	21	35	26	26	30	25	37	25	33	27
Social sciences, other	148	124	135	157	147	153	126	168	161	172
Non-S&E ¹	14,830	15,213	15,196	15,308	15,367	15,158	15,391	15,268	15,393	15,452
Education	6,711	6,650	6,785	6,574	6,571	6,546	6,429	6,337	6,487	6,627
Health	1,296	1,329	1,324	1,421	1,500	1,407	1,591	1,620	1,655	1,633
Humanities ¹	4,372	4,691	4,712	5,034	5,116	5,034	5,213	5,160	5,009	5,015
Professional/other/unknown	2,451	2,543	2,375	2,279	2,180	2,171	2,158	2,151	2,242	2,177

NA = not available (i.e., the subfield was not identified separately in the questionnaire for that year).

¹Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

²These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 2. Doctorates awarded to women, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Percent women	
											1994	2003
Grand total, all fields	15,822	16,417	16,956	17,241	17,848	17,479	18,124	17,947	18,123	18,402	38.6	45.2
Science and engineering ¹	7,922	8,286	8,649	8,934	9,348	9,081	9,393	9,328	9,158	9,472	30.2	37.5
Engineering	635	696	777	750	774	788	837	928	888	896	10.9	17.0
Aeronautical/astronautical	11	14	24	16	15	17	21	28	24	27	4.8	13.6
Chemical engineering	113	109	143	122	140	123	151	180	176	154	15.6	24.0
Chemical	101	96	126	106	119	101	130	156	150	140	16.0	24.9
Petroleum	3	1	3	3	6	5	6	7	10	5	7.1	13.9
Polymer/plastics	9	12	14	13	15	17	15	17	16	9	17.0	20.0
Civil engineering	80	76	79	80	100	89	88	111	120	125	11.7	18.6
Civil	56	55	64	70	83	76	78	82	96	86	9.3	15.6
Environmental health	24	21	15	10	17	13	10	29	24	39	29.3	32.0
Electrical engineering	147	173	169	150	156	155	195	203	163	179	8.8	12.2
Communications	5	5	2	3	6	6	7	12	4	7	15.2	19.4
Computer	25	18	23	21	22	32	31	33	16	27	12.4	14.1
Electrical/electronics	117	150	144	126	128	117	157	158	143	145	8.1	11.7
Industrial/manufacturing engineering	33	50	51	40	40	42	35	44	67	53	14.5	25.1
Materials/metallurgical engineering	83	95	84	106	84	88	83	105	80	101	15.4	21.4
Ceramic sciences	9	5	3	8	2	9	8	3	1	1	23.1	5.6
Materials science	69	84	72	96	75	75	73	99	78	99	15.9	22.7
Metallurgical	5	6	9	2	7	4	2	3	1	1	7.5	5.6
Mechanical engineering	69	64	78	88	93	96	96	91	96	84	6.8	10.3
Engineering mechanics	9	8	10	6	13	11	7	5	8	9	6.8	14.3
Mechanical	60	56	68	82	80	85	89	86	88	75	6.8	10.0
Other engineering	99	115	149	148	146	178	168	166	162	173	13.6	21.9
Agricultural	10	7	17	12	5	12	7	8	9	6	11.2	11.1
Bioengineering/biomedical	45	48	49	54	51	63	71	69	69	78	26.0	27.9
Engineering physics	3	1	3	4	3	4	1	2	3	9	17.6	32.1
Engineering science	3	6	4	7	8	4	6	9	8	2	6.5	5.1
Mining/mineral	3	0	3	3	4	2	0	2	0	1	13.0	7.7
Nuclear	8	9	9	8	10	8	9	6	13	11	9.4	14.7
Ocean	2	3	3	5	0	1	3	3	3	1	6.9	8.3
Operations research	7	8	16	15	15	16	11	17	13	19	14.9	23.8
Systems	5	5	9	10	9	7	6	8	9	9	9.8	19.6
Engineering, general	4	9	11	3	3	4	10	4	6	4	10.3	20.0
Engineering, other	9	19	25	27	38	57	44	38	29	33	7.0	23.1
Sciences ¹	7,287	7,590	7,872	8,184	8,574	8,293	8,556	8,400	8,270	8,576	35.8	42.9
Biological/agricultural sciences	2,358	2,445	2,696	2,755	2,834	2,674	2,896	2,839	2,822	2,911	37.5	44.0
Agricultural science	249	228	281	260	298	280	274	290	278	313	23.1	33.9
Agronomy and crop science	17	13	17	10	18	16	14	21	19	14	11.9	25.5
Animal breeding/genetics	3	1	3	4	6	7	4	4	2	6	17.6	28.6
Animal nutrition	10	9	11	13	13	12	8	6	17	9	17.2	22.0
Dairy science	1	3	2	5	2	5	0	0	2	8	9.1	44.4
Poultry science	5	0	2	2	3	2	3	5	5	5	23.8	29.4

TABLE 2. Doctorates awarded to women, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Percent women	
											1994	2003
Animal sciences, other	25	19	26	14	16	23	26	19	22	33	29.1	37.5
Fisheries science and management	11	9	10	5	8	7	11	9	13	12	22.9	25.5
Wildlife/range management	13	8	22	13	15	8	11	14	9	12	25.0	26.7
Food engineering	2	0	0	3	3	2	2	7	4	5	12.5	45.5
Food sciences, other	69	54	69	79	66	67	66	64	56	78	45.1	49.7
Forest biology	6	5	4	1	6	4	8	7	7	3	30.0	18.8
Forest engineering	NA	0	0	2	0	0	0	0	0	0	NA	0.0
Forest management	2	6	2	4	9	3	2	4	2	6	11.8	33.3
Wood science and pulp/paper technology	6	6	3	2	4	6	1	4	2	5	23.1	26.3
Conservation/renewable natural resources	6	5	3	7	11	9	5	18	12	13	28.6	27.7
Forestry and related sciences, other	6	13	18	15	16	16	17	16	16	15	10.2	31.9
Horticulture science	14	22	22	16	13	16	16	13	13	18	21.5	33.3
Plant breeding/genetics	13	15	13	9	14	13	23	10	12	13	16.0	26.0
Plant pathology	20	9	27	26	24	27	12	16	22	18	36.4	37.5
Plant sciences, other	9	3	3	7	14	12	10	10	11	10	37.5	34.5
Soil chemistry/microbiology	4	5	9	9	7	8	8	15	8	10	19.0	41.7
Soil sciences, other	6	18	14	8	21	11	15	15	16	13	8.7	26.0
Agricultural sciences, general	0	3	0	2	1	0	2	0	2	0	0.0	0.0
Agricultural sciences, other	1	2	1	4	8	6	10	13	6	7	9.1	46.7
Biological science	2,109	2,217	2,415	2,495	2,536	2,394	2,622	2,549	2,544	2,598	40.5	45.6
Bacteriology	11	6	8	1	4	6	6	10	7	2	61.1	33.3
Biochemistry	320	341	317	364	351	308	325	309	294	319	39.8	41.3
Biomedical sciences ²	NA	42	54	63	80	72	68	81	110	88	NA	48.1
Biophysics	33	46	41	41	47	49	49	47	34	53	26.8	32.9
Biotechnology research	2	2	1	3	4	2	6	3	5	7	14.3	29.2
Plant genetics	5	12	16	11	18	9	17	15	28	17	16.7	44.7
Plant pathology	11	10	13	8	8	12	8	11	15	12	27.5	44.4
Plant physiology	21	21	29	18	28	23	15	20	19	13	30.0	40.6
Botany, other	46	34	44	31	55	25	53	33	39	37	39.3	46.3
Anatomy	29	25	20	19	8	16	17	12	8	11	43.9	33.3
Biometrics/biostatistics	34	23	34	43	39	36	41	47	46	49	47.2	58.3
Cell biology	102	117	107	113	155	134	155	148	160	145	43.0	48.2
Developmental biology/embryology	32	29	49	61	61	54	60	53	34	70	51.6	56.0
Ecology	70	64	84	108	114	121	116	128	135	143	34.8	41.1
Endocrinology	8	6	13	9	14	9	8	7	6	12	30.8	57.1
Entomology	28	27	36	42	38	37	37	31	33	30	22.8	27.0
Biological immunology	74	82	129	93	115	100	116	122	146	121	46.0	46.4
Microbiology	177	188	185	185	169	164	189	181	177	159	41.8	43.8
Molecular biology	268	265	291	331	322	299	320	323	271	289	44.8	47.1
Neuroscience	129	121	165	190	169	181	195	200	202	201	45.4	42.6
Nutritional sciences	102	92	98	92	96	68	126	99	107	102	69.4	80.3
Parasitology	9	7	12	10	6	6	8	10	6	6	40.9	40.0
Toxicology	50	50	60	80	60	53	58	62	65	64	41.7	52.0
Human/animal genetics	87	92	101	103	91	105	115	106	109	122	42.9	54.2
Human/animal pathology	45	38	52	42	35	54	45	56	63	47	35.2	46.1
Human/animal pharmacology	106	129	142	143	120	113	123	115	113	126	40.9	46.0
Human/animal physiology	106	103	107	82	100	109	99	91	84	86	36.7	40.4

TABLE 2. Doctorates awarded to women, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Percent women	
											1994	2003
Zoology, other	32	50	31	34	43	47	55	40	46	56	27.4	44.1
Biological sciences, general	117	148	120	86	82	75	82	86	96	85	40.6	43.4
Biological sciences, other	55	47	56	89	104	107	110	103	86	126	34.4	53.2
Earth, atmospheric, and ocean sciences	183	170	172	209	219	210	230	236	242	259	22.2	33.1
Atmospheric science	26	23	22	25	30	22	33	28	31	39	20.2	28.1
Atmospheric dynamics	9	3	4	5	8	5	3	4	3	6	33.3	28.6
Atmospheric physics/chemistry	5	8	7	10	7	11	12	9	15	15	18.5	38.5
Meteorology	8	3	2	3	5	1	6	2	2	4	25.0	16.0
Atmospheric science/meteorology, general	4	7	5	5	8	2	7	10	6	5	10.8	15.2
Atmospheric science/meteorology, other	0	2	4	2	2	3	5	3	5	9	0.0	42.9
Earth science	95	91	88	119	127	112	108	115	121	104	18.7	27.9
Geochemistry	10	10	10	15	22	21	13	11	22	17	16.9	32.1
Geology	32	38	36	39	40	41	28	38	30	38	16.5	31.9
Geomorphology/glacial geology	2	4	1	4	8	9	4	3	6	3	15.4	15.0
Geophysics/seismology	24	19	14	19	21	15	16	22	24	17	22.6	22.7
Hydrology/water resources	3	4	5	8	8	5	16	14	10	4	10.0	15.4
Mineralogy/petrology	6	4	11	6	5	3	1	4	4	4	28.6	50.0
Paleontology	2	3	4	11	7	4	14	4	6	3	11.8	16.7
Stratigraphy/sedimentation	4	1	3	7	4	3	4	3	2	6	14.8	37.5
Geological and related sciences, general	1	4	2	4	5	1	5	6	3	2	5.6	25.0
Geological and related sciences, other	11	4	2	6	7	10	7	10	14	10	45.8	33.3
Oceanography	38	28	39	38	32	45	46	46	50	59	30.4	44.4
Marine sciences	11	8	5	8	3	9	17	15	17	21	32.4	58.3
Oceanography	27	20	34	30	29	36	29	31	33	38	29.7	39.2
Other environmental sciences	24	28	23	27	30	31	43	47	40	57	39.3	41.3
Mathematics/computer science	373	451	370	413	456	433	400	431	431	438	18.5	23.5
Computer science	137	186	139	150	159	156	141	155	166	175	15.2	20.2
Computer science	118	160	116	132	120	120	103	111	124	119	14.2	17.0
Information science/systems	19	26	23	18	39	36	38	27	26	24	27.1	36.9
Computer and information science, other	NA	NA	NA	NA	NA	NA	NA	17	16	32	NA	31.1
Mathematics	236	265	231	263	297	277	259	276	265	263	21.1	26.5
Algebra	24	24	18	20	18	25	21	20	15	23	30.8	33.8
Analysis/functional analysis	16	18	15	13	25	19	15	20	20	15	15.0	17.9
Applied mathematics	39	47	52	55	61	59	59	56	62	56	18.9	25.1
Computing theory	2	2	2	1	3	3	2	2	2	0	12.5	0.0
Geometry	4	8	14	13	15	16	8	7	12	10	11.4	20.8
Logic	6	7	1	5	5	5	2	6	5	5	20.7	27.8
Mathematical statistics	50	54	47	46	62	46	71	63	62	69	24.4	36.1
Number theory	5	9	7	11	7	12	5	8	5	7	13.5	15.2
Operations research	9	5	4	5	6	9	3	2	9	4	34.6	21.1
Topology	11	8	5	14	13	15	10	15	10	13	28.9	26.5
Mathematics, general	54	64	45	44	39	22	34	36	33	32	20.1	21.3
Mathematics, other	16	19	21	36	43	46	29	41	30	29	22.2	32.2
Physical sciences	828	878	842	852	926	831	835	838	861	892	20.8	26.9
Astronomy	25	30	41	37	45	33	40	41	28	41	17.4	24.6

TABLE 2. Doctorates awarded to women, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Percent women	
											1994	2003
Astronomy	9	18	21	18	22	18	24	21	13	19	13.6	27.5
Astrophysics	16	12	20	19	23	15	16	20	15	22	20.5	22.4
Chemistry	625	661	605	613	695	632	624	628	647	647	27.7	31.8
Analytical	102	109	111	106	146	108	121	123	114	136	30.5	40.5
Inorganic	87	92	68	81	84	90	64	91	86	95	33.2	36.0
Medicinal/pharmaceutical	26	32	32	43	46	50	51	45	39	40	25.5	36.7
Nuclear	0	3	0	0	1	1	3	0	3	2	0.0	50.0
Organic	128	134	118	145	160	163	140	132	144	145	23.5	26.1
Physical	93	93	85	91	77	75	76	92	102	84	27.8	26.3
Polymer	23	28	30	25	40	31	31	33	35	25	19.7	22.7
Theoretical	17	10	14	11	10	9	12	6	17	12	32.7	24.5
Chemistry, general	126	135	119	76	88	52	81	72	61	68	28.2	36.6
Chemistry, other	23	25	28	35	43	53	45	34	46	40	41.8	38.8
Physics	175	182	193	193	177	160	163	160	177	193	11.3	17.9
Acoustics	2	3	2	4	6	1	1	1	1	5	10.0	20.0
Chemical and atomic/molecular	17	15	10	11	13	14	21	7	11	14	12.1	19.4
Elementary particle	16	7	19	21	11	17	15	9	28	15	9.1	11.2
Fluids	1	0	4	0	0	2	0	1	2	0	8.3	0.0
Nuclear	9	12	9	11	11	9	9	13	18	10	10.0	15.2
Optics	14	13	20	16	18	12	16	14	19	23	13.5	24.2
Plasma and high-temperature	8	5	2	2	2	2	0	3	3	2	10.1	6.3
Polymer	4	3	12	7	4	7	6	5	6	1	13.8	7.7
Solid state and low-temperature	53	57	54	51	37	42	42	32	48	48	13.7	17.6
Physics, general	30	41	39	36	29	22	31	23	21	25	8.7	14.5
Physics, other	21	26	22	34	46	32	22	52	20	50	12.6	26.3
Other physical sciences	3	5	3	9	9	6	8	9	9	11	10.7	30.6
Psychology	2,101	2,181	2,330	2,363	2,455	2,449	2,411	2,306	2,133	2,229	62.2	68.1
Clinical	842	870	920	894	966	1,033	992	891	852	845	65.5	71.4
Cognitive psychology and psycholinguistics	56	52	60	75	50	70	66	76	67	70	43.4	52.6
Comparative	7	1	2	3	4	7	2	1	1	2	87.5	50.0
Counseling	310	298	303	314	295	295	312	334	321	312	62.4	71.4
Developmental and child	132	121	154	170	207	149	163	159	141	144	73.7	80.9
Educational	39	53	66	45	39	44	63	31	38	42	56.5	80.8
Experimental	71	83	68	70	65	65	59	72	63	65	51.1	54.6
Family and marriage counseling ^d	NA	37	28	43	28	38	29	22	35	42	NA	67.7
Human/individual family development	103	118	121	101	91	112	103	97	95	111	79.8	74.0
Industrial/organizational	69	89	99	103	110	99	113	105	85	84	50.4	54.2
Personality	12	9	11	13	15	11	14	6	12	11	63.2	64.7
Physiological/psychobiology	52	35	41	42	49	49	56	46	51	42	55.9	49.4
Psychometrics	1	4	3	7	5	2	5	2	2	4	20.0	57.1
Quantitative	8	9	7	10	8	7	2	5	6	3	47.1	27.3
School	53	62	71	66	81	89	78	90	68	72	63.1	70.6
Social	100	84	111	116	117	115	135	107	104	129	65.4	63.9
Psychology, general	158	185	181	199	201	132	134	152	86	143	56.4	63.3
Psychology, other	88	71	84	92	124	132	85	110	106	108	56.4	71.5
Social sciences ¹	1,444	1,465	1,462	1,592	1,684	1,696	1,784	1,750	1,781	1,847	37.0	44.6

TABLE 2. Doctorates awarded to women, by field of study and year of doctorate: 1994–2003

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Percent women	
											1994	2003
Economics	249	279	263	266	312	291	293	306	281	302	22.6	28.7
Agricultural economics	20	42	37	34	40	39	38	46	32	40	12.3	33.6
Econometrics	4	4	8	4	4	5	3	2	2	6	15.4	26.1
Economics	225	233	218	228	268	247	252	258	247	256	24.6	28.2
Political science	282	265	305	298	364	356	365	330	394	397	30.3	38.7
International relations and affairs	24	21	32	19	32	38	26	31	34	27	21.4	27.3
Political science/government	173	166	186	197	243	216	235	214	252	250	29.4	37.9
Public administration	47	43	37	30	48	46	42	41	35	50	34.8	41.3
Public policy analysis	38	35	50	52	41	56	62	44	73	70	40.4	47.9
Sociology	283	294	276	334	317	342	376	337	345	361	51.6	59.0
Demography/population studies	12	6	2	16	13	17	10	8	12	9	52.2	60.0
Sociology	271	288	274	318	304	325	366	329	333	352	51.6	59.0
Other social sciences	630	627	618	694	691	707	750	777	761	787	47.6	54.3
American studies	48	53	67	47	52	56	63	87	56	66	54.5	70.2
Anthropology	208	219	214	241	239	263	252	244	289	288	54.2	61.0
Archaeology	17	18	11	20	23	12	24	19	15	20	50.0	60.6
Area studies	17	12	9	5	11	3	4	10	14	7	50.0	58.3
Criminology	12	23	25	25	22	20	34	29	30	30	29.3	39.5
Geography	35	43	45	54	49	49	70	66	64	65	24.0	38.7
History/philosophy of science and technology	10	17	10	13	20	18	17	8	11	23	37.0	50.0
Linguistics	134	102	113	135	123	148	135	136	114	132	60.6	58.9
Statistics	16	11	7	23	21	21	22	22	23	19	34.8	39.6
Urban affairs and studies	44	37	39	29	26	17	28	33	35	32	33.1	41.0
Social sciences, general	9	23	15	14	17	14	20	20	17	11	42.9	40.7
Social sciences, other	80	69	63	88	88	86	81	103	93	94	54.1	54.7
Non-S&E ¹	7,900	8,131	8,307	8,307	8,500	8,398	8,731	8,619	8,965	8,930	53.3	57.8
Education	4,090	4,093	4,187	4,120	4,130	4,195	4,172	4,095	4,290	4,363	60.9	65.8
Health	843	843	860	936	1,006	899	1,066	1,032	1,124	1,085	65.0	66.4
Humanities ¹	2,054	2,256	2,343	2,381	2,469	2,418	2,593	2,578	2,505	2,504	47.0	49.9
Professional/other/unknown	913	939	917	870	895	886	900	914	1,046	978	37.3	44.9

NA = not available (i.e., the subfield was not identified separately in the questionnaire for that year).

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total										
Grand total, all fields	41,034	41,748	42,436	42,540	42,645	41,090	41,357	40,808	39,964	40,710
Science and engineering ¹	26,204	26,535	27,240	27,232	27,278	25,932	25,966	25,540	24,571	25,258
Engineering	5,821	6,008	6,309	6,115	5,924	5,330	5,321	5,502	5,071	5,265
Aeronautical/astronautical	230	252	287	273	241	206	214	203	208	199
Chemical	725	708	798	767	776	674	725	728	705	643
Civil	683	656	698	655	650	584	556	594	625	672
Electrical	1,673	1,731	1,741	1,720	1,596	1,478	1,544	1,576	1,392	1,463
Industrial	228	284	259	246	229	211	176	205	230	211
Materials/metallurgical	539	588	574	582	565	469	451	497	396	473
Mechanical	1,015	1,025	1,052	1,022	1,022	855	864	953	827	814
Other engineering	728	764	900	850	845	853	791	746	688	790
Sciences ¹	20,383	20,527	20,931	21,117	21,354	20,602	20,645	20,038	19,500	19,993
Agricultural sciences	1,078	1,036	1,035	982	1,037	966	943	853	893	922
Biological sciences	5,202	5,376	5,723	5,789	5,845	5,582	5,854	5,690	5,687	5,694
Computer sciences	903	997	920	909	927	855	859	826	807	866
Earth, atmospheric, and ocean sciences	824	780	794	878	814	805	758	749	785	783
Mathematics	1,118	1,190	1,122	1,123	1,177	1,083	1,050	1,007	918	994
Physical sciences	3,977	3,841	3,839	3,769	3,824	3,579	3,407	3,393	3,209	3,320
Astronomy	144	173	192	198	206	159	185	186	144	167
Chemistry	2,257	2,162	2,149	2,148	2,216	2,132	1,989	1,980	1,923	2,037
Physics	1,548	1,479	1,485	1,401	1,378	1,271	1,204	1,197	1,124	1,080
Other physical sciences	28	27	13	22	24	17	29	30	18	36
Psychology	3,379	3,429	3,495	3,557	3,675	3,668	3,618	3,442	3,198	3,275
Social sciences ¹	3,902	3,878	4,003	4,110	4,055	4,064	4,156	4,078	4,003	4,139
Non-S&E ¹	14,830	15,213	15,196	15,308	15,367	15,158	15,391	15,268	15,393	15,452
Education	6,711	6,650	6,785	6,574	6,571	6,546	6,429	6,337	6,487	6,627
Health	1,296	1,329	1,324	1,421	1,500	1,407	1,591	1,620	1,655	1,633
Humanities ¹	4,372	4,691	4,712	5,034	5,116	5,034	5,213	5,160	5,009	5,015
Professional/other/unknown	2,451	2,543	2,375	2,279	2,180	2,171	2,158	2,151	2,242	2,177
Total, men										
Grand total, all fields	25,058	25,161	25,285	24,943	24,633	23,434	23,166	22,791	21,771	22,188
Science and engineering ¹	18,164	18,117	18,453	18,083	17,810	16,735	16,521	16,172	15,372	15,716
Engineering	5,150	5,270	5,488	5,316	5,111	4,504	4,459	4,565	4,170	4,346
Aeronautical/astronautical	219	237	262	254	225	188	191	174	184	172
Chemical	609	597	653	641	630	550	571	546	527	488
Civil	598	575	616	571	544	495	466	482	504	544
Electrical	1,516	1,545	1,556	1,560	1,429	1,310	1,339	1,372	1,223	1,276
Industrial	195	231	208	205	188	169	140	160	162	156
Materials/metallurgical	452	489	483	470	477	376	367	392	315	372
Mechanical	940	954	963	928	922	751	767	860	729	726
Other engineering	621	642	747	687	696	665	618	579	526	612
Sciences ¹	13,014	12,847	12,965	12,767	12,699	12,231	12,062	11,607	11,202	11,370

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Agricultural sciences	827	804	754	715	738	682	669	557	613	606
Biological sciences	3,075	3,132	3,286	3,262	3,294	3,171	3,226	3,133	3,142	3,083
Computer sciences	762	808	775	743	765	692	716	669	638	690
Earth, atmospheric, and ocean sciences	635	608	614	663	592	591	523	512	541	523
Mathematics	879	919	881	851	872	803	790	731	650	729
Physical sciences	3,128	2,944	2,970	2,893	2,879	2,733	2,567	2,551	2,346	2,418
Astronomy	119	143	151	161	161	126	145	145	116	126
Chemistry	1,621	1,488	1,526	1,523	1,509	1,493	1,361	1,349	1,275	1,385
Physics	1,364	1,291	1,283	1,196	1,195	1,103	1,040	1,036	946	882
Other physical sciences	24	22	10	13	14	11	21	21	9	25
Psychology	1,273	1,245	1,162	1,162	1,206	1,209	1,204	1,132	1,061	1,042
Social sciences ¹	2,435	2,387	2,523	2,478	2,353	2,350	2,367	2,322	2,211	2,279
Non-S&E ¹	6,894	7,044	6,832	6,860	6,823	6,699	6,645	6,619	6,399	6,472
Education	2,612	2,547	2,579	2,394	2,424	2,334	2,254	2,237	2,186	2,239
Health	444	477	456	469	489	499	523	576	530	541
Humanities ¹	2,307	2,429	2,352	2,618	2,638	2,590	2,616	2,575	2,497	2,501
Professional/other/unknown	1,531	1,591	1,445	1,379	1,272	1,276	1,252	1,231	1,186	1,191
Total, women										
Grand total, all fields	15,822	16,417	16,956	17,241	17,848	17,479	18,124	17,947	18,123	18,402
Science and engineering ¹	7,922	8,286	8,649	8,934	9,348	9,081	9,393	9,328	9,158	9,472
Engineering	635	696	777	750	774	788	837	928	888	896
Aeronautical/astronautical	11	14	24	16	15	17	21	28	24	27
Chemical	113	109	143	122	140	123	151	180	176	154
Civil	80	76	79	80	100	89	88	111	120	125
Electrical	147	173	169	150	156	155	195	203	163	179
Industrial	33	50	51	40	40	42	35	44	67	53
Materials/metallurgical	83	95	84	106	84	88	83	105	80	101
Mechanical	69	64	78	88	93	96	96	91	96	84
Other engineering	99	115	149	148	146	178	168	166	162	173
Sciences ¹	7,287	7,590	7,872	8,184	8,574	8,293	8,556	8,400	8,270	8,576
Agricultural sciences	249	228	281	260	298	280	274	290	278	313
Biological sciences	2,109	2,217	2,415	2,495	2,536	2,394	2,622	2,549	2,544	2,598
Computer sciences	137	186	139	150	159	156	141	155	166	175
Earth, atmospheric, and ocean sciences	183	170	172	209	219	210	230	236	242	259
Mathematics	236	265	231	263	297	277	259	276	265	263
Physical sciences	828	878	842	852	926	831	835	838	861	892
Astronomy	25	30	41	37	45	33	40	41	28	41
Chemistry	625	661	605	613	695	632	624	628	647	647
Physics	175	182	193	193	177	160	163	160	177	193
Other physical sciences	3	5	3	9	9	6	8	9	9	11
Psychology	2,101	2,181	2,330	2,363	2,455	2,449	2,411	2,306	2,133	2,229
Social sciences ¹	1,444	1,465	1,462	1,592	1,684	1,696	1,784	1,750	1,781	1,847
Non-S&E ¹	7,900	8,131	8,307	8,307	8,500	8,398	8,731	8,619	8,965	8,930
Education	4,090	4,093	4,187	4,120	4,130	4,195	4,172	4,095	4,290	4,363

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	843	843	860	936	1,006	899	1,066	1,032	1,124	1,085
Humanities ¹	2,054	2,256	2,343	2,381	2,469	2,418	2,593	2,578	2,505	2,504
Professional/other/unknown	913	939	917	870	895	886	900	914	1,046	978
U.S. citizens or permanent residents										
Grand total, all fields	30,897	32,059	31,540	31,082	31,158	30,292	29,928	28,869	27,646	28,044
Science and engineering ¹	18,188	18,996	18,647	18,393	18,256	17,565	17,114	16,338	15,508	15,669
Engineering	3,053	3,342	3,389	3,332	3,044	2,888	2,571	2,439	2,163	2,163
Aeronautical/astronautical	130	153	184	168	152	112	127	102	91	80
Chemical	380	381	391	409	374	371	382	358	336	292
Civil	292	309	305	327	297	312	261	269	247	269
Electrical	899	971	929	940	804	766	648	560	507	494
Industrial	119	149	136	119	101	99	77	87	81	70
Materials/metallurgical	297	352	337	315	313	260	244	225	174	200
Mechanical	538	563	588	538	515	463	396	427	342	332
Other engineering	398	464	519	516	488	505	436	411	385	426
Sciences ¹	15,135	15,654	15,258	15,061	15,212	14,677	14,543	13,899	13,345	13,506
Agricultural sciences	616	598	575	550	543	494	502	431	421	477
Biological sciences	4,088	4,329	4,364	4,256	4,308	4,124	4,268	4,243	4,111	4,047
Computer sciences	543	616	514	520	561	492	457	423	419	440
Earth, atmospheric, and ocean sciences	613	594	558	607	562	526	510	467	494	512
Mathematics	657	771	648	629	669	605	574	524	442	516
Physical sciences	2,789	2,841	2,571	2,497	2,455	2,277	2,092	2,045	1,939	1,966
Astronomy	112	141	149	158	147	117	139	123	109	130
Chemistry	1,616	1,624	1,463	1,439	1,467	1,406	1,241	1,230	1,229	1,262
Physics	1,044	1,059	949	883	823	742	692	677	589	552
Other physical sciences	17	17	10	17	18	12	20	15	12	22
Psychology	3,136	3,184	3,233	3,125	3,274	3,292	3,231	3,033	2,794	2,846
Social sciences ¹	2,693	2,721	2,795	2,877	2,840	2,867	2,909	2,733	2,725	2,702
Non-S&E ¹	12,709	13,063	12,893	12,689	12,902	12,727	12,814	12,531	12,138	12,375
Education	6,066	5,995	6,075	5,747	5,745	5,814	5,680	5,450	5,395	5,631
Health	1,050	1,043	1,016	1,028	1,154	1,049	1,195	1,157	1,191	1,225
Humanities ¹	3,765	4,056	4,047	4,235	4,327	4,292	4,391	4,379	4,111	4,130
Professional/other/unknown	1,828	1,969	1,755	1,679	1,676	1,572	1,548	1,545	1,441	1,389
U.S. citizens or permanent residents, men										
Grand total, all fields	17,369	17,872	17,203	16,881	16,537	15,892	15,290	14,636	13,718	13,855
Science and engineering ¹	11,692	12,081	11,682	11,391	11,067	10,494	9,980	9,427	8,807	8,866
Engineering	2,604	2,822	2,863	2,819	2,586	2,397	2,080	1,961	1,721	1,726
Aeronautical/astronautical	121	141	166	156	140	102	113	83	80	69
Chemical	302	293	293	332	297	296	282	265	248	220
Civil	237	257	258	269	239	251	213	203	190	200
Electrical	810	851	823	834	712	685	555	493	441	430
Industrial	90	115	100	91	77	68	59	60	49	48
Materials/metallurgical	233	273	273	244	262	206	190	171	128	155

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	484	514	528	482	461	403	340	389	298	292
Other engineering	327	378	422	411	398	386	328	297	287	312
Sciences ¹	9,088	9,259	8,819	8,572	8,481	8,097	7,900	7,466	7,086	7,140
Agricultural sciences	456	463	401	394	360	333	336	266	268	317
Biological sciences	2,345	2,469	2,423	2,333	2,385	2,260	2,281	2,272	2,193	2,134
Computer sciences	449	473	423	419	437	387	371	325	322	343
Earth, atmospheric, and ocean sciences	469	450	428	442	391	373	342	304	307	327
Mathematics	506	588	503	452	470	413	409	370	308	364
Physical sciences	2,164	2,132	1,961	1,909	1,849	1,724	1,546	1,518	1,398	1,399
Astronomy	91	116	114	132	120	91	104	94	87	99
Chemistry	1,152	1,087	1,024	1,007	1,003	980	819	822	808	847
Physics	907	915	815	759	715	647	609	590	497	439
Other physical sciences	14	14	8	11	11	6	14	12	6	14
Psychology	1,169	1,127	1,048	1,014	1,058	1,063	1,052	983	916	892
Social sciences ¹	1,530	1,557	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,364
Non-S&E ¹	5,677	5,791	5,521	5,490	5,470	5,398	5,310	5,209	4,911	4,989
Education	2,307	2,243	2,243	2,051	2,049	2,013	1,925	1,889	1,796	1,853
Health	328	324	293	287	310	329	341	340	339	354
Humanities ¹	1,976	2,076	2,001	2,197	2,217	2,209	2,215	2,153	2,071	2,080
Professional/other/unknown	1,066	1,148	984	955	894	847	829	827	705	702
U.S. citizens or permanent residents, women										
Grand total, all fields	13,524	14,184	14,337	14,168	14,591	14,400	14,633	14,233	13,927	14,185
Science and engineering ¹	6,495	6,913	6,965	6,988	7,171	7,071	7,132	6,911	6,700	6,801
Engineering	448	520	526	512	452	491	491	478	442	437
Aeronautical/astronautical	9	12	18	12	12	10	14	19	11	11
Chemical	78	88	98	77	76	75	100	93	88	72
Civil	55	52	47	58	58	61	48	66	57	69
Electrical	88	120	106	106	91	81	93	67	66	64
Industrial	29	34	36	28	24	31	18	27	32	22
Materials/metallurgical	64	79	64	71	51	54	54	54	46	45
Mechanical	54	49	60	55	50	60	56	38	44	40
Other engineering	71	86	97	105	90	119	108	114	98	114
Sciences ¹	6,047	6,393	6,439	6,476	6,719	6,580	6,641	6,433	6,258	6,364
Agricultural sciences	160	135	174	155	183	161	166	165	152	160
Biological sciences	1,743	1,859	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,911
Computer sciences	94	143	91	100	123	105	86	98	97	97
Earth, atmospheric, and ocean sciences	144	144	130	164	171	153	168	163	187	185
Mathematics	151	183	145	177	198	192	164	154	134	152
Physical sciences	625	708	610	587	604	553	546	527	541	567
Astronomy	21	25	35	26	27	26	35	29	22	31
Chemistry	464	537	439	431	463	426	422	408	421	415
Physics	137	143	134	124	107	95	83	87	92	113
Other physical sciences	3	3	2	6	7	6	6	3	6	8
Psychology	1,967	2,057	2,185	2,106	2,211	2,229	2,178	2,050	1,878	1,954

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Social sciences ¹	1,163	1,164	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,338
Non-S&E ¹	7,029	7,271	7,372	7,180	7,420	7,329	7,501	7,322	7,227	7,384
Education	3,757	3,752	3,832	3,687	3,690	3,801	3,754	3,561	3,599	3,776
Health	722	719	723	740	844	720	854	817	852	871
Humanities ¹	1,788	1,980	2,046	2,033	2,106	2,083	2,175	2,226	2,040	2,050
Professional/other/unknown	762	820	771	720	780	725	718	718	736	687
U.S. citizens										
Grand total, all fields	27,149	27,742	27,775	28,151	28,456	27,984	27,978	27,031	25,997	26,413
Science and engineering ¹	15,166	15,487	15,638	16,112	16,237	15,912	15,705	15,060	14,342	14,571
Engineering	2,215	2,386	2,596	2,739	2,565	2,485	2,221	2,140	1,892	1,898
Aeronautical/astronautical	110	140	166	155	139	103	117	94	81	70
Chemical	293	291	318	321	328	333	339	329	302	272
Civil	203	206	212	249	246	261	221	222	210	239
Electrical	634	683	708	753	638	639	532	465	424	403
Industrial	89	108	107	102	84	86	67	72	71	54
Materials/metallurgical	218	238	245	271	265	225	221	202	164	176
Mechanical	359	383	436	456	433	398	341	385	285	287
Other engineering	309	337	404	432	432	440	383	371	355	397
Sciences ¹	12,951	13,101	13,042	13,373	13,672	13,427	13,484	12,920	12,450	12,673
Agricultural sciences	519	492	472	467	464	443	447	403	390	443
Biological sciences	3,422	3,494	3,546	3,670	3,756	3,660	3,904	3,899	3,796	3,782
Computer sciences	426	484	422	430	476	420	388	367	355	384
Earth, atmospheric, and ocean sciences	507	478	462	537	500	475	475	430	458	474
Mathematics	504	554	490	530	576	539	518	469	411	470
Physical sciences	2,198	2,137	2,078	2,131	2,141	2,035	1,890	1,861	1,778	1,815
Astronomy	103	120	137	151	132	111	127	119	104	125
Chemistry	1,291	1,238	1,170	1,234	1,288	1,256	1,119	1,127	1,136	1,169
Physics	789	764	762	731	705	657	625	602	527	500
Other physical sciences	15	15	9	15	16	11	19	13	11	21
Psychology	3,052	3,083	3,129	3,036	3,181	3,222	3,156	2,958	2,723	2,776
Social sciences ¹	2,323	2,379	2,443	2,572	2,578	2,633	2,706	2,533	2,539	2,529
Non-S&E ¹	11,983	12,255	12,137	12,039	12,219	12,072	12,273	11,971	11,655	11,842
Education	5,867	5,777	5,879	5,582	5,573	5,636	5,554	5,334	5,283	5,501
Health	961	938	933	959	1,072	972	1,120	1,088	1,123	1,166
Humanities ¹	3,485	3,748	3,728	3,946	4,023	4,008	4,159	4,113	3,910	3,892
Professional/other/unknown	1,670	1,792	1,597	1,552	1,551	1,456	1,440	1,436	1,339	1,283
U.S. citizens, men										
Grand total, all fields	14,733	14,965	14,720	15,047	14,872	14,513	14,155	13,636	12,849	13,042
Science and engineering ¹	9,463	9,596	9,581	9,884	9,736	9,442	9,081	8,683	8,146	8,276
Engineering	1,872	2,012	2,178	2,324	2,189	2,059	1,801	1,730	1,526	1,528
Aeronautical/astronautical	102	128	150	143	127	93	103	77	71	61
Chemical	236	221	235	260	263	268	248	247	229	204
Civil	155	170	175	204	196	207	179	163	161	176

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Electrical	570	604	625	679	572	577	463	422	379	358
Industrial	63	82	76	77	62	58	50	50	43	37
Materials/metallurgical	166	185	198	213	228	176	174	155	122	141
Mechanical	327	355	391	409	392	346	294	351	251	256
Other engineering	253	267	328	339	349	334	290	265	270	295
Sciences ¹	7,591	7,584	7,403	7,560	7,547	7,383	7,280	6,953	6,620	6,748
Agricultural sciences	387	380	328	332	310	298	300	252	250	303
Biological sciences	1,930	2,006	1,961	2,031	2,075	2,011	2,097	2,115	2,062	2,021
Computer sciences	349	368	345	347	373	330	315	283	277	306
Earth, atmospheric, and ocean sciences	382	366	348	390	352	338	319	281	283	304
Mathematics	382	422	385	387	405	374	373	332	289	339
Physical sciences	1,745	1,617	1,611	1,658	1,629	1,564	1,408	1,394	1,287	1,314
Astronomy	83	99	106	126	109	87	95	92	82	96
Chemistry	946	829	837	882	895	894	744	762	751	803
Physics	703	676	661	639	616	578	556	529	449	402
Other physical sciences	13	13	7	11	9	5	13	11	5	13
Psychology	1,143	1,092	1,022	987	1,026	1,042	1,022	960	890	870
Social sciences ¹	1,273	1,333	1,403	1,428	1,377	1,426	1,446	1,336	1,282	1,291
Non-S&E ¹	5,270	5,369	5,139	5,163	5,136	5,071	5,074	4,953	4,703	4,766
Education	2,200	2,149	2,154	1,976	1,979	1,946	1,882	1,836	1,759	1,807
Health	283	263	248	254	273	285	309	312	314	329
Humanities ¹	1,835	1,938	1,855	2,065	2,072	2,065	2,116	2,050	1,982	1,983
Professional/other/unknown	952	1,019	882	868	812	775	767	755	648	647
U.S. citizens, women										
Grand total, all fields	12,413	12,775	13,055	13,072	13,570	13,471	13,820	13,395	13,147	13,368
Science and engineering ¹	5,703	5,889	6,057	6,215	6,494	6,470	6,623	6,377	6,195	6,294
Engineering	343	374	418	414	375	426	420	410	366	370
Aeronautical/astronautical	8	12	16	12	12	10	14	17	10	9
Chemical	57	70	83	61	64	65	91	82	73	68
Civil	48	36	37	45	50	54	42	59	49	63
Electrical	64	79	83	74	66	62	69	43	45	45
Industrial	26	26	31	25	22	28	17	22	28	17
Materials/metallurgical	52	53	47	58	37	49	47	47	42	35
Mechanical	32	28	45	46	41	52	47	34	34	31
Other engineering	56	70	76	93	83	106	93	106	85	102
Sciences ¹	5,360	5,515	5,639	5,801	6,119	6,044	6,203	5,967	5,829	5,924
Agricultural sciences	132	112	144	134	154	145	147	151	139	140
Biological sciences	1,492	1,487	1,585	1,637	1,681	1,649	1,807	1,784	1,734	1,760
Computer sciences	77	116	77	82	103	90	73	84	78	78
Earth, atmospheric, and ocean sciences	125	112	114	146	148	137	156	149	175	170
Mathematics	122	132	105	143	171	165	145	137	122	131
Physical sciences	453	519	467	472	512	471	482	467	491	501
Astronomy	20	21	31	25	23	24	32	27	22	29
Chemistry	345	409	333	351	393	362	375	365	385	366

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	86	87	101	92	89	79	69	73	78	98
Other physical sciences	2	2	2	4	7	6	6	2	6	8
Psychology	1,909	1,991	2,107	2,044	2,150	2,180	2,133	1,998	1,833	1,906
Social sciences ¹	1,050	1,046	1,040	1,143	1,200	1,207	1,260	1,197	1,257	1,238
Non-S&E ¹	6,710	6,886	6,998	6,857	7,076	7,001	7,197	7,018	6,952	7,074
Education	3,665	3,628	3,725	3,597	3,590	3,690	3,671	3,498	3,524	3,692
Health	678	675	685	704	799	687	811	776	809	837
Humanities ¹	1,649	1,810	1,873	1,876	1,950	1,943	2,043	2,063	1,928	1,909
Professional/other/unknown	718	773	715	680	737	681	672	681	691	636
Non-U.S. citizens with permanent visas										
Grand total, all fields	3,748	4,317	3,765	2,931	2,702	2,308	1,950	1,838	1,649	1,631
Science and engineering ¹	3,022	3,509	3,009	2,281	2,019	1,653	1,409	1,278	1,166	1,098
Engineering	838	956	793	593	479	403	350	299	271	265
Aeronautical/astronautical	20	13	18	13	13	9	10	8	10	10
Chemical	87	90	73	88	46	38	43	29	34	20
Civil	89	103	93	78	51	51	40	47	37	30
Electrical	265	288	221	187	166	127	116	95	83	91
Industrial	30	41	29	17	17	13	10	15	10	16
Materials/metallurgical	79	114	92	44	48	35	23	23	10	24
Mechanical	179	180	152	82	82	65	55	42	57	45
Other engineering	89	127	115	84	56	65	53	40	30	29
Sciences ¹	2,184	2,553	2,216	1,688	1,540	1,250	1,059	979	895	833
Agricultural sciences	97	106	103	83	79	51	55	28	31	34
Biological sciences	666	835	818	586	552	464	364	344	315	265
Computer sciences	117	132	92	90	85	72	69	56	64	56
Earth, atmospheric, and ocean sciences	106	116	96	70	62	51	35	37	36	38
Mathematics	153	217	158	99	93	66	56	55	31	46
Physical sciences	591	704	493	366	314	242	202	184	161	151
Astronomy	9	21	12	7	15	6	12	4	5	5
Chemistry	325	386	293	205	179	150	122	103	93	93
Physics	255	295	187	152	118	85	67	75	62	52
Other physical sciences	2	2	1	2	2	1	1	2	1	1
Psychology	84	101	104	89	93	70	75	75	71	70
Social sciences ¹	370	342	352	305	262	234	203	200	186	173
Non-S&E ¹	726	808	756	650	683	655	541	560	483	533
Education	199	218	196	165	172	178	126	116	112	130
Health	89	105	83	69	82	77	75	69	68	59
Humanities ¹	280	308	319	289	304	284	232	266	201	238
Professional/other/unknown	158	177	158	127	125	116	108	109	102	106
Non-U.S. citizens with permanent visas, men										
Grand total, all fields	2,636	2,907	2,483	1,834	1,665	1,379	1,135	1,000	869	813
Science and engineering ¹	2,229	2,485	2,101	1,507	1,331	1,052	899	744	661	590
Engineering	732	810	685	495	397	338	279	231	195	198

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Aeronautical/astronautical	19	13	16	13	13	9	10	6	9	8
Chemical	66	72	58	72	34	28	34	18	19	16
Civil	82	87	83	65	43	44	34	40	29	24
Electrical	240	247	198	155	140	108	92	71	62	72
Industrial	27	33	24	14	15	10	9	10	6	11
Materials/metallurgical	67	88	75	31	34	30	16	16	6	14
Mechanical	157	159	137	73	69	57	46	38	47	36
Other engineering	74	111	94	72	49	52	38	32	17	17
Sciences ¹	1,497	1,675	1,416	1,012	934	714	620	513	466	392
Agricultural sciences	69	83	73	62	50	35	36	14	18	14
Biological sciences	415	463	462	302	310	249	184	157	131	113
Computer sciences	100	105	78	72	64	57	56	42	45	37
Earth, atmospheric, and ocean sciences	87	84	80	52	39	35	23	23	24	23
Mathematics	124	166	118	65	65	39	36	38	19	25
Physical sciences	419	515	350	251	220	160	138	124	111	85
Astronomy	8	17	8	6	11	4	9	2	5	3
Chemistry	206	258	187	125	108	86	75	60	57	44
Physics	204	239	154	120	99	69	53	61	48	37
Other physical sciences	1	1	1	0	2	1	1	1	1	1
Psychology	26	35	26	27	32	21	30	23	26	22
Social sciences ¹	257	224	229	181	154	118	117	92	92	73
Non-S&E ¹	407	422	382	327	334	327	236	256	208	223
Education	107	94	89	75	70	67	43	53	37	46
Health	45	61	45	33	37	44	32	28	25	25
Humanities ¹	141	138	146	132	145	144	99	103	89	97
Professional/other/unknown	114	129	102	87	82	72	62	72	57	55
Non-U.S. citizens with permanent visas, women										
Grand total, all fields	1,111	1,409	1,282	1,096	1,021	929	813	838	780	817
Science and engineering ¹	792	1,024	908	773	677	601	509	534	505	507
Engineering	105	146	108	98	77	65	71	68	76	67
Aeronautical/astronautical	1	0	2	0	0	0	0	2	1	2
Chemical	21	18	15	16	12	10	9	11	15	4
Civil	7	16	10	13	8	7	6	7	8	6
Electrical	24	41	23	32	25	19	24	24	21	19
Industrial	3	8	5	3	2	3	1	5	4	5
Materials/metallurgical	12	26	17	13	14	5	7	7	4	10
Mechanical	22	21	15	9	9	8	9	4	10	9
Other engineering	15	16	21	12	7	13	15	8	13	12
Sciences ¹	687	878	800	675	600	536	438	466	429	440
Agricultural sciences	28	23	30	21	29	16	19	14	13	20
Biological sciences	251	372	356	283	240	215	180	187	184	151
Computer sciences	17	27	14	18	20	15	13	14	19	19
Earth, atmospheric, and ocean sciences	19	32	16	18	23	16	12	14	12	15

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	29	51	40	34	27	27	19	17	12	21
Physical sciences	172	189	143	115	92	82	64	60	50	66
Astronomy	1	4	4	1	4	2	3	2	0	2
Chemistry	119	128	106	80	70	64	47	43	36	49
Physics	51	56	33	32	18	16	14	14	14	15
Other physical sciences	1	1	0	2	0	0	0	1	0	0
Psychology	58	66	78	62	61	49	45	52	45	48
Social sciences ¹	113	118	123	124	108	116	86	108	94	100
Non-S&E ¹	319	385	374	323	344	328	304	304	275	310
Education	92	124	107	90	100	111	83	63	75	84
Health	44	44	38	36	45	33	43	41	43	34
Humanities ¹	139	170	173	157	156	140	132	163	112	141
Professional/other/unknown	44	47	56	40	43	44	46	37	45	51
Non-U.S. citizens with temporary visas										
Grand total, all fields	9,422	8,831	9,649	9,193	9,496	9,057	9,663	9,827	9,723	10,585
Science and engineering ¹	7,534	7,007	7,835	7,509	7,776	7,238	7,660	7,959	7,688	8,388
Engineering	2,653	2,527	2,734	2,555	2,582	2,192	2,452	2,787	2,647	2,909
Aeronautical/astronautical	96	94	93	97	71	82	74	87	106	111
Chemical	337	318	401	343	373	282	307	335	326	337
Civil	384	337	372	310	316	253	280	299	348	386
Electrical	735	712	750	712	709	637	785	933	823	920
Industrial	109	131	117	118	120	108	94	109	134	137
Materials/metallurgical	233	224	222	244	228	194	181	249	196	259
Mechanical	459	439	436	449	454	354	433	494	447	447
Other engineering	300	272	343	282	311	282	298	281	267	312
Sciences ¹	4,881	4,480	5,101	4,954	5,194	5,046	5,208	5,172	5,041	5,479
Agricultural sciences	454	429	442	392	462	459	415	359	401	392
Biological sciences	1,058	971	1,243	1,322	1,334	1,287	1,385	1,242	1,291	1,401
Computer sciences	343	365	377	330	328	330	363	360	349	379
Earth, atmospheric, and ocean sciences	199	173	206	231	216	242	203	252	250	228
Mathematics	451	384	443	441	447	444	443	436	440	440
Physical sciences	1,109	931	1,141	1,084	1,203	1,127	1,156	1,219	1,113	1,224
Astronomy	32	28	42	37	52	37	42	53	31	34
Chemistry	597	493	613	599	658	622	648	675	596	689
Physics	473	400	483	446	488	463	458	482	481	494
Other physical sciences	7	10	3	2	5	5	8	9	5	7
Psychology	151	165	180	137	169	153	164	153	156	197
Social sciences ¹	1,116	1,062	1,069	1,017	1,035	1,004	1,079	1,151	1,041	1,218
Non-S&E ¹	1,888	1,824	1,814	1,684	1,720	1,819	2,003	1,868	2,035	2,197
Education	537	506	482	411	489	517	539	503	474	585
Health	230	246	268	273	286	286	306	320	322	326
Humanities ¹	530	548	522	530	534	536	630	553	647	657
Professional/other/unknown	591	524	542	470	411	480	528	492	592	629

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Non-U.S. citizens with temporary visas, men										
Grand total, all fields	7,320	6,855	7,415	6,974	7,007	6,630	6,854	7,025	6,750	7,250
Science and engineering ¹	6,199	5,748	6,328	5,976	6,006	5,588	5,796	5,995	5,723	6,145
Engineering	2,470	2,365	2,504	2,340	2,301	1,931	2,149	2,381	2,261	2,463
Aeronautical/astronautical	94	93	88	93	69	77	70	80	96	95
Chemical	301	296	355	300	312	238	259	257	252	256
Civil	357	314	341	288	276	227	243	257	293	329
Electrical	678	668	698	674	656	575	696	806	734	808
Industrial	105	115	104	107	105	97	79	94	107	106
Materials/metallurgical	216	208	203	210	197	161	155	200	167	205
Mechanical	445	425	419	420	424	322	398	445	400	404
Other engineering	274	246	296	248	262	234	249	242	212	260
Sciences ¹	3,729	3,383	3,824	3,636	3,705	3,657	3,647	3,614	3,462	3,682
Agricultural sciences	367	339	340	298	355	343	311	249	293	260
Biological sciences	698	631	800	818	795	819	832	744	776	805
Computer sciences	301	322	335	292	305	283	315	313	287	311
Earth, atmospheric, and ocean sciences	160	151	169	194	174	195	145	192	202	167
Mathematics	367	305	360	366	362	366	359	326	318	335
Physical sciences	907	770	931	858	923	879	905	946	826	934
Astronomy	28	24	36	27	34	30	37	45	27	24
Chemistry	438	377	464	445	454	442	475	478	396	488
Physics	434	361	429	386	432	402	387	417	401	417
Other physical sciences	7	8	2	0	3	5	6	6	2	5
Psychology	71	80	86	58	68	70	68	68	61	75
Social sciences ¹	858	785	803	752	723	702	712	776	699	795
Non-S&E ¹	1,121	1,107	1,087	998	1,001	1,042	1,058	1,030	1,027	1,105
Education	269	246	244	205	249	244	244	216	193	238
Health	109	140	147	135	156	139	143	170	139	164
Humanities ¹	292	308	280	294	272	296	296	297	305	304
Professional/other/unknown	451	413	416	364	324	363	375	347	390	399
Non-U.S. citizens with temporary visas, women										
Grand total, all fields	2,080	1,959	2,221	2,204	2,469	2,423	2,808	2,801	2,967	3,321
Science and engineering ¹	1,321	1,248	1,500	1,521	1,755	1,648	1,863	1,964	1,961	2,233
Engineering	178	159	228	211	274	260	302	406	385	442
Aeronautical/astronautical	2	1	5	4	2	5	4	7	10	16
Chemical	35	21	45	43	60	44	48	78	74	81
Civil	25	23	31	21	39	26	37	42	55	55
Electrical	56	44	52	36	52	62	88	127	88	111
Industrial	4	16	13	11	14	11	15	15	27	31
Materials/metallurgical	16	15	19	34	30	33	26	49	29	54
Mechanical	14	13	16	29	29	31	35	49	47	43
Other engineering	26	26	47	33	48	48	49	39	55	51

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Sciences ¹	1,143	1,089	1,272	1,310	1,481	1,388	1,561	1,558	1,576	1,791
Agricultural sciences	87	89	102	93	107	116	104	110	108	132
Biological sciences	355	335	441	504	538	468	553	498	515	593
Computer sciences	41	43	42	38	23	47	48	47	62	68
Earth, atmospheric, and ocean sciences	39	22	36	36	41	47	58	60	48	61
Mathematics	84	79	83	75	85	77	84	110	121	104
Physical sciences	199	160	209	223	279	248	251	273	286	288
Astronomy	4	4	6	10	18	7	5	8	4	10
Chemistry	157	115	148	153	203	180	173	197	200	200
Physics	38	39	54	58	56	61	71	65	79	76
Other physical sciences	0	2	1	2	2	0	2	3	3	2
Psychology	80	85	94	79	101	83	96	85	95	122
Social sciences ¹	258	276	265	262	307	302	367	375	341	423
Non-S&E ¹	759	711	721	683	714	775	945	837	1,006	1,088
Education	268	260	237	206	239	273	295	286	280	347
Health	115	104	117	138	129	147	163	150	183	161
Humanities ¹	237	239	242	234	260	239	334	256	341	350
Professional/other/unknown	139	108	125	105	86	116	153	145	202	230
Citizenship unknown										
Grand total, all fields	715	858	1,247	2,265	1,991	1,741	1,766	2,112	2,595	2,081
Science and engineering ¹	482	532	758	1,330	1,246	1,129	1,192	1,243	1,375	1,201
Engineering	115	139	186	228	298	250	298	276	261	193
Aeronautical/astronautical	4	5	10	8	18	12	13	14	11	8
Chemical	8	9	6	15	29	21	36	35	43	14
Civil	7	10	21	18	37	19	15	26	30	17
Electrical	39	48	62	68	83	75	111	83	62	49
Industrial	0	4	6	9	8	4	5	9	15	4
Materials/metallurgical	9	12	15	23	24	15	26	23	26	14
Mechanical	18	23	28	35	53	38	35	32	38	35
Other engineering	30	28	38	52	46	66	57	54	36	52
Sciences ¹	367	393	572	1,102	948	879	894	967	1,114	1,008
Agricultural sciences	8	9	18	40	32	13	26	63	71	53
Biological sciences	56	76	116	211	203	171	201	205	285	246
Computer sciences	17	16	29	59	38	33	39	43	39	47
Earth, atmospheric, and ocean sciences	12	13	30	40	36	37	45	30	41	43
Mathematics	10	35	31	53	61	34	33	47	36	38
Physical sciences	79	69	127	188	166	175	159	129	157	130
Astronomy	0	4	1	3	7	5	4	10	4	3
Chemistry	44	45	73	110	91	104	100	75	98	86
Physics	31	20	53	72	67	66	54	38	54	34
Other physical sciences	4	0	0	3	1	0	1	6	1	7
Psychology	92	80	82	295	232	223	223	256	248	232
Social sciences ¹	93	95	139	216	180	193	168	194	237	219
Non-S&E ¹	233	326	489	935	745	612	574	869	1,220	880

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Education	108	149	228	416	337	215	210	384	618	411
Health	16	40	40	120	60	72	90	143	142	82
Humanities ¹	77	87	143	269	255	206	192	228	251	228
Professional/other/unknown	32	50	78	130	93	119	82	114	209	159
Citizenship unknown, men										
Grand total, all fields	369	434	667	1,088	1,089	912	1,022	1,130	1,303	1,083
Science and engineering ¹	273	288	443	716	737	653	745	750	842	705
Engineering	76	83	121	157	224	176	230	223	188	157
Aeronautical/astronautical	4	3	8	5	16	9	8	11	8	8
Chemical	6	8	5	9	21	16	30	24	27	12
Civil	4	4	17	14	29	17	10	22	21	15
Electrical	28	26	35	52	61	50	88	73	48	38
Industrial	0	1	4	7	6	4	2	6	6	2
Materials/metallurgical	3	8	7	16	18	9	22	21	20	12
Mechanical	11	15	16	26	37	26	29	26	31	30
Other engineering	20	18	29	28	36	45	41	40	27	40
Sciences ¹	197	205	322	559	513	477	515	527	654	548
Agricultural sciences	4	2	13	23	23	6	22	42	52	29
Biological sciences	32	32	63	111	114	92	113	117	173	144
Computer sciences	12	13	17	32	23	22	30	31	29	36
Earth, atmospheric, and ocean sciences	6	7	17	27	27	23	36	16	32	29
Mathematics	6	26	18	33	40	24	22	35	24	30
Physical sciences	57	42	78	126	107	130	116	87	122	85
Astronomy	0	3	1	2	7	5	4	6	2	3
Chemistry	31	24	38	71	52	71	67	49	71	50
Physics	23	15	39	51	48	54	44	29	48	26
Other physical sciences	3	0	0	2	0	0	1	3	1	6
Psychology	33	38	28	90	80	76	84	81	84	75
Social sciences ¹	47	45	88	117	99	104	92	118	138	120
Non-S&E ¹	96	146	224	372	352	259	277	380	461	378
Education	36	58	92	138	126	77	85	132	197	148
Health	7	13	16	47	23	31	39	66	52	23
Humanities ¹	39	45	71	127	149	85	105	125	121	117
Professional/other/unknown	14	30	45	60	54	66	48	57	91	90
Citizenship unknown, women										
Grand total, all fields	218	274	398	869	788	656	683	913	1,229	896
Science and engineering ¹	106	125	184	425	422	362	398	453	497	438
Engineering	9	17	23	27	48	37	44	44	61	17
Aeronautical/astronautical	0	1	1	0	1	2	3	2	3	0
Chemical	0	0	0	2	4	4	3	9	14	1
Civil	0	1	1	1	3	2	3	3	8	1
Electrical	3	9	11	8	13	12	14	9	9	4
Industrial	0	0	2	1	2	0	2	2	8	0
Materials/metallurgical	3	1	1	1	3	1	3	2	5	2

TABLE 3. Doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	1	2	2	4	14	5	5	4	5	1
Other engineering	2	3	5	10	8	11	11	13	9	8
Sciences ¹	97	108	161	398	374	325	354	409	436	421
Agricultural sciences	2	4	5	12	8	3	4	15	18	21
Biological sciences	11	23	33	71	77	62	82	80	111	94
Computer sciences	2	0	6	12	13	4	7	10	7	10
Earth, atmospheric, and ocean sciences	0	4	6	9	7	10	4	13	7	13
Mathematics	1	3	3	11	14	8	11	12	10	7
Physical sciences	4	10	23	42	43	30	38	38	34	37
Astronomy	0	1	0	1	0	0	0	4	2	0
Chemistry	4	9	18	29	29	26	29	23	26	32
Physics	0	0	5	11	14	4	9	8	6	4
Other physical sciences	0	0	0	1	0	0	0	3	0	1
Psychology	54	39	51	178	143	137	137	171	160	153
Social sciences ¹	23	25	34	63	69	71	71	70	89	86
Non-S&E ¹	112	149	214	444	366	294	285	460	732	458
Education	65	81	118	227	201	121	123	248	411	240
Health	6	20	20	58	33	32	49	65	89	53
Humanities ¹	29	37	55	114	103	96	84	96	124	104
Professional/other/unknown	12	11	21	45	29	45	29	51	108	61

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

NOTE: Persons with unknown citizenship and unknown sex are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	22.2	22.6	23.2	22.5	21.7	20.6	20.5	21.5	20.6	20.8
Aeronautical/astronautical	0.9	0.9	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8
Chemical	2.8	2.7	2.9	2.8	2.8	2.6	2.8	2.9	2.9	2.5
Civil	2.6	2.5	2.6	2.4	2.4	2.3	2.1	2.3	2.5	2.7
Electrical	6.4	6.5	6.4	6.3	5.9	5.7	5.9	6.2	5.7	5.8
Industrial	0.9	1.1	1.0	0.9	0.8	0.8	0.7	0.8	0.9	0.8
Materials/metallurgical	2.1	2.2	2.1	2.1	2.1	1.8	1.7	1.9	1.6	1.9
Mechanical	3.9	3.9	3.9	3.8	3.7	3.3	3.3	3.7	3.4	3.2
Other engineering	2.8	2.9	3.3	3.1	3.1	3.3	3.0	2.9	2.8	3.1
Sciences ¹	77.8	77.4	76.8	77.5	78.3	79.4	79.5	78.5	79.4	79.2
Agricultural sciences	4.1	3.9	3.8	3.6	3.8	3.7	3.6	3.3	3.6	3.7
Biological sciences	19.9	20.3	21.0	21.3	21.4	21.5	22.5	22.3	23.1	22.5
Computer sciences	3.4	3.8	3.4	3.3	3.4	3.3	3.3	3.2	3.3	3.4
Earth, atmospheric, and ocean sciences	3.1	2.9	2.9	3.2	3.0	3.1	2.9	2.9	3.2	3.1
Mathematics	4.3	4.5	4.1	4.1	4.3	4.2	4.0	3.9	3.7	3.9
Physical sciences	15.2	14.5	14.1	13.8	14.0	13.8	13.1	13.3	13.1	13.1
Astronomy	0.5	0.7	0.7	0.7	0.8	0.6	0.7	0.7	0.6	0.7
Chemistry	8.6	8.1	7.9	7.9	8.1	8.2	7.7	7.8	7.8	8.1
Physics	5.9	5.6	5.5	5.1	5.1	4.9	4.6	4.7	4.6	4.3
Other physical sciences	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	12.9	12.9	12.8	13.1	13.5	14.1	13.9	13.5	13.0	13.0
Social sciences ¹	14.9	14.6	14.7	15.1	14.9	15.7	16.0	16.0	16.3	16.4
Total, men										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	28.4	29.1	29.7	29.4	28.7	26.9	27.0	28.2	27.1	27.7
Aeronautical/astronautical	1.2	1.3	1.4	1.4	1.3	1.1	1.2	1.1	1.2	1.1
Chemical	3.4	3.3	3.5	3.5	3.5	3.3	3.5	3.4	3.4	3.1
Civil	3.3	3.2	3.3	3.2	3.1	3.0	2.8	3.0	3.3	3.5
Electrical	8.3	8.5	8.4	8.6	8.0	7.8	8.1	8.5	8.0	8.1
Industrial	1.1	1.3	1.1	1.1	1.1	1.0	0.8	1.0	1.1	1.0
Materials/metallurgical	2.5	2.7	2.6	2.6	2.7	2.2	2.2	2.4	2.0	2.4
Mechanical	5.2	5.3	5.2	5.1	5.2	4.5	4.6	5.3	4.7	4.6
Other engineering	3.4	3.5	4.0	3.8	3.9	4.0	3.7	3.6	3.4	3.9
Sciences ¹	71.6	70.9	70.3	70.6	71.3	73.1	73.0	71.8	72.9	72.3
Agricultural sciences	4.6	4.4	4.1	4.0	4.1	4.1	4.0	3.4	4.0	3.9
Biological sciences	16.9	17.3	17.8	18.0	18.5	18.9	19.5	19.4	20.4	19.6
Computer sciences	4.2	4.5	4.2	4.1	4.3	4.1	4.3	4.1	4.2	4.4
Earth, atmospheric, and ocean sciences	3.5	3.4	3.3	3.7	3.3	3.5	3.2	3.2	3.5	3.3
Mathematics	4.8	5.1	4.8	4.7	4.9	4.8	4.8	4.5	4.2	4.6
Physical sciences	17.2	16.2	16.1	16.0	16.2	16.3	15.5	15.8	15.3	15.4

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients:
1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Astronomy	0.7	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8
Chemistry	8.9	8.2	8.3	8.4	8.5	8.9	8.2	8.3	8.3	8.8
Physics	7.5	7.1	7.0	6.6	6.7	6.6	6.3	6.4	6.2	5.6
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Psychology	7.0	6.9	6.3	6.4	6.8	7.2	7.3	7.0	6.9	6.6
Social sciences ¹	13.4	13.2	13.7	13.7	13.2	14.0	14.3	14.4	14.4	14.5
Total, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	8.0	8.4	9.0	8.4	8.3	8.7	8.9	9.9	9.7	9.5
Aeronautical/astronautical	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Chemical	1.4	1.3	1.7	1.4	1.5	1.4	1.6	1.9	1.9	1.6
Civil	1.0	0.9	0.9	0.9	1.1	1.0	0.9	1.2	1.3	1.3
Electrical	1.9	2.1	2.0	1.7	1.7	1.7	2.1	2.2	1.8	1.9
Industrial	0.4	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.7	0.6
Materials/metallurgical	1.0	1.1	1.0	1.2	0.9	1.0	0.9	1.1	0.9	1.1
Mechanical	0.9	0.8	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9
Other engineering	1.2	1.4	1.7	1.7	1.6	2.0	1.8	1.8	1.8	1.8
Sciences ¹	92.0	91.6	91.0	91.6	91.7	91.3	91.1	90.1	90.3	90.5
Agricultural sciences	3.1	2.8	3.2	2.9	3.2	3.1	2.9	3.1	3.0	3.3
Biological sciences	26.6	26.8	27.9	27.9	27.1	26.4	27.9	27.3	27.8	27.4
Computer sciences	1.7	2.2	1.6	1.7	1.7	1.7	1.5	1.7	1.8	1.8
Earth, atmospheric, and ocean sciences	2.3	2.1	2.0	2.3	2.3	2.3	2.4	2.5	2.6	2.7
Mathematics	3.0	3.2	2.7	2.9	3.2	3.1	2.8	3.0	2.9	2.8
Physical sciences	10.5	10.6	9.7	9.5	9.9	9.2	8.9	9.0	9.4	9.4
Astronomy	0.3	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.4
Chemistry	7.9	8.0	7.0	6.9	7.4	7.0	6.6	6.7	7.1	6.8
Physics	2.2	2.2	2.2	2.2	1.9	1.8	1.7	1.7	1.9	2.0
Other physical sciences	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	26.5	26.3	26.9	26.4	26.3	27.0	25.7	24.7	23.3	23.5
Social sciences ¹	18.2	17.7	16.9	17.8	18.0	18.7	19.0	18.8	19.4	19.5
U.S. citizens or permanent residents										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	16.8	17.6	18.2	18.1	16.7	16.4	15.0	14.9	13.9	13.8
Aeronautical/astronautical	0.7	0.8	1.0	0.9	0.8	0.6	0.7	0.6	0.6	0.5
Chemical	2.1	2.0	2.1	2.2	2.0	2.1	2.2	2.2	2.2	1.9
Civil	1.6	1.6	1.6	1.8	1.6	1.8	1.5	1.6	1.6	1.7
Electrical	4.9	5.1	5.0	5.1	4.4	4.4	3.8	3.4	3.3	3.2
Industrial	0.7	0.8	0.7	0.6	0.6	0.6	0.4	0.5	0.5	0.4
Materials/metallurgical	1.6	1.9	1.8	1.7	1.7	1.5	1.4	1.4	1.1	1.3
Mechanical	3.0	3.0	3.2	2.9	2.8	2.6	2.3	2.6	2.2	2.1
Other engineering	2.2	2.4	2.8	2.8	2.7	2.9	2.5	2.5	2.5	2.7
Sciences ¹	83.2	82.4	81.8	81.9	83.3	83.6	85.0	85.1	86.1	86.2

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients:
1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Agricultural sciences	3.4	3.1	3.1	3.0	3.0	2.8	2.9	2.6	2.7	3.0
Biological sciences	22.5	22.8	23.4	23.1	23.6	23.5	24.9	26.0	26.5	25.8
Computer sciences	3.0	3.2	2.8	2.8	3.1	2.8	2.7	2.6	2.7	2.8
Earth, atmospheric, and ocean sciences	3.4	3.1	3.0	3.3	3.1	3.0	3.0	2.9	3.2	3.3
Mathematics	3.6	4.1	3.5	3.4	3.7	3.4	3.4	3.2	2.9	3.3
Physical sciences	15.3	15.0	13.8	13.6	13.4	13.0	12.2	12.5	12.5	12.5
Astronomy	0.6	0.7	0.8	0.9	0.8	0.7	0.8	0.8	0.7	0.8
Chemistry	8.9	8.5	7.8	7.8	8.0	8.0	7.3	7.5	7.9	8.1
Physics	5.7	5.6	5.1	4.8	4.5	4.2	4.0	4.1	3.8	3.5
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	17.2	16.8	17.3	17.0	17.9	18.7	18.9	18.6	18.0	18.2
Social sciences ¹	14.8	14.3	15.0	15.6	15.6	16.3	17.0	16.7	17.6	17.2
U.S. citizens or permanent residents, men										
Science and engineering	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	22.3	23.4	24.5	24.7	23.4	22.8	20.8	20.8	19.5	19.5
Aeronautical/astronautical	1.0	1.2	1.4	1.4	1.3	1.0	1.1	0.9	0.9	0.8
Chemical	2.6	2.4	2.5	2.9	2.7	2.8	2.8	2.8	2.8	2.5
Civil	2.0	2.1	2.2	2.4	2.2	2.4	2.1	2.2	2.2	2.3
Electrical	6.9	7.0	7.0	7.3	6.4	6.5	5.6	5.2	5.0	4.8
Industrial	0.8	1.0	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.5
Materials/metallurgical	2.0	2.3	2.3	2.1	2.4	2.0	1.9	1.8	1.5	1.7
Mechanical	4.1	4.3	4.5	4.2	4.2	3.8	3.4	4.1	3.4	3.3
Other engineering	2.8	3.1	3.6	3.6	3.6	3.7	3.3	3.2	3.3	3.5
Sciences ¹	77.7	76.6	75.5	75.3	76.6	77.2	79.2	79.2	80.5	80.5
Agricultural sciences	3.9	3.8	3.4	3.5	3.3	3.2	3.4	2.8	3.0	3.6
Biological sciences	20.1	20.4	20.7	20.5	21.6	21.5	22.9	24.1	24.9	24.1
Computer sciences	3.8	3.9	3.6	3.7	3.9	3.7	3.7	3.4	3.7	3.9
Earth, atmospheric, and ocean sciences	4.0	3.7	3.7	3.9	3.5	3.6	3.4	3.2	3.5	3.7
Mathematics	4.3	4.9	4.3	4.0	4.2	3.9	4.1	3.9	3.5	4.1
Physical sciences	18.5	17.6	16.8	16.8	16.7	16.4	15.5	16.1	15.9	15.8
Astronomy	0.8	1.0	1.0	1.2	1.1	0.9	1.0	1.0	1.0	1.1
Chemistry	9.9	9.0	8.8	8.8	9.1	9.3	8.2	8.7	9.2	9.6
Physics	7.8	7.6	7.0	6.7	6.5	6.2	6.1	6.3	5.6	5.0
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Psychology	10.0	9.3	9.0	8.9	9.6	10.1	10.5	10.4	10.4	10.1
Social sciences ¹	13.1	12.9	14.0	14.1	13.8	14.7	15.7	15.1	15.6	15.4
U.S. citizens or permanent residents, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	6.9	7.5	7.6	7.3	6.3	6.9	6.9	6.9	6.6	6.4
Aeronautical/astronautical	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.2
Chemical	1.2	1.3	1.4	1.1	1.1	1.1	1.4	1.3	1.3	1.1

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients:
1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Civil	0.8	0.8	0.7	0.8	0.8	0.9	0.7	1.0	0.9	1.0
Electrical	1.4	1.7	1.5	1.5	1.3	1.1	1.3	1.0	1.0	0.9
Industrial	0.4	0.5	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.3
Materials/metallurgical	1.0	1.1	0.9	1.0	0.7	0.8	0.8	0.8	0.7	0.7
Mechanical	0.8	0.7	0.9	0.8	0.7	0.8	0.8	0.5	0.7	0.6
Other engineering	1.1	1.2	1.4	1.5	1.3	1.7	1.5	1.6	1.5	1.7
Sciences ¹	93.1	92.5	92.4	92.7	93.7	93.1	93.1	93.1	93.4	93.6
Agricultural sciences	2.5	2.0	2.5	2.2	2.6	2.3	2.3	2.4	2.3	2.4
Biological sciences	26.8	26.9	27.9	27.5	26.8	26.4	27.9	28.5	28.6	28.1
Computer sciences	1.4	2.1	1.3	1.4	1.7	1.5	1.2	1.4	1.4	1.4
Earth, atmospheric, and ocean sciences	2.2	2.1	1.9	2.3	2.4	2.2	2.4	2.4	2.8	2.7
Mathematics	2.3	2.6	2.1	2.5	2.8	2.7	2.3	2.2	2.0	2.2
Physical sciences	9.6	10.2	8.8	8.4	8.4	7.8	7.7	7.6	8.1	8.3
Astronomy	0.3	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.5
Chemistry	7.1	7.8	6.3	6.2	6.5	6.0	5.9	5.9	6.3	6.1
Physics	2.1	2.1	1.9	1.8	1.5	1.3	1.2	1.3	1.4	1.7
Other physical sciences	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1
Psychology	30.3	29.8	31.4	30.1	30.8	31.5	30.5	29.7	28.0	28.7
Social sciences ¹	17.9	16.8	16.7	18.1	18.2	18.7	18.9	18.9	20.2	19.7
U.S. citizens										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	14.6	15.4	16.6	17.0	15.8	15.6	14.1	14.2	13.2	13.0
Aeronautical/astronautical	0.7	0.9	1.1	1.0	0.9	0.6	0.7	0.6	0.6	0.5
Chemical	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.1	1.9
Civil	1.3	1.3	1.4	1.5	1.5	1.6	1.4	1.5	1.5	1.6
Electrical	4.2	4.4	4.5	4.7	3.9	4.0	3.4	3.1	3.0	2.8
Industrial	0.6	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.4
Materials/metallurgical	1.4	1.5	1.6	1.7	1.6	1.4	1.4	1.3	1.1	1.2
Mechanical	2.4	2.5	2.8	2.8	2.7	2.5	2.2	2.6	2.0	2.0
Other engineering	2.0	2.2	2.6	2.7	2.7	2.8	2.4	2.5	2.5	2.7
Sciences ¹	85.4	84.6	83.4	83.0	84.2	84.4	85.9	85.8	86.8	87.0
Agricultural sciences	3.4	3.2	3.0	2.9	2.9	2.8	2.8	2.7	2.7	3.0
Biological sciences	22.6	22.6	22.7	22.8	23.1	23.0	24.9	25.9	26.5	26.0
Computer sciences	2.8	3.1	2.7	2.7	2.9	2.6	2.5	2.4	2.5	2.6
Earth, atmospheric, and ocean sciences	3.3	3.1	3.0	3.3	3.1	3.0	3.0	2.9	3.2	3.3
Mathematics	3.3	3.6	3.1	3.3	3.5	3.4	3.3	3.1	2.9	3.2
Physical sciences	14.5	13.8	13.3	13.2	13.2	12.8	12.0	12.4	12.4	12.5
Astronomy	0.7	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.9
Chemistry	8.5	8.0	7.5	7.7	7.9	7.9	7.1	7.5	7.9	8.0
Physics	5.2	4.9	4.9	4.5	4.3	4.1	4.0	4.0	3.7	3.4
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	20.1	19.9	20.0	18.8	19.6	20.2	20.1	19.6	19.0	19.1

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Social sciences ¹	15.3	15.4	15.6	16.0	15.9	16.5	17.2	16.8	17.7	17.4
U.S. citizens, men										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	19.8	21.0	22.7	23.5	22.5	21.8	19.8	19.9	18.7	18.5
Aeronautical/astronautical	1.1	1.3	1.6	1.4	1.3	1.0	1.1	0.9	0.9	0.7
Chemical	2.5	2.3	2.5	2.6	2.7	2.8	2.7	2.8	2.8	2.5
Civil	1.6	1.8	1.8	2.1	2.0	2.2	2.0	1.9	2.0	2.1
Electrical	6.0	6.3	6.5	6.9	5.9	6.1	5.1	4.9	4.7	4.3
Industrial	0.7	0.9	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.4
Materials/metallurgical	1.8	1.9	2.1	2.2	2.3	1.9	1.9	1.8	1.5	1.7
Mechanical	3.5	3.7	4.1	4.1	4.0	3.7	3.2	4.0	3.1	3.1
Other engineering	2.7	2.8	3.4	3.4	3.6	3.5	3.2	3.1	3.3	3.6
Sciences ¹	80.2	79.0	77.3	76.5	77.5	78.2	80.2	80.1	81.3	81.5
Agricultural sciences	4.1	4.0	3.4	3.4	3.2	3.2	3.3	2.9	3.1	3.7
Biological sciences	20.4	20.9	20.5	20.5	21.3	21.3	23.1	24.4	25.3	24.4
Computer sciences	3.7	3.8	3.6	3.5	3.8	3.5	3.5	3.3	3.4	3.7
Earth, atmospheric, and ocean sciences	4.0	3.8	3.6	3.9	3.6	3.6	3.5	3.2	3.5	3.7
Mathematics	4.0	4.4	4.0	3.9	4.2	4.0	4.1	3.8	3.5	4.1
Physical sciences	18.4	16.9	16.8	16.8	16.7	16.6	15.5	16.1	15.8	15.9
Astronomy	0.9	1.0	1.1	1.3	1.1	0.9	1.0	1.1	1.0	1.2
Chemistry	10.0	8.6	8.7	8.9	9.2	9.5	8.2	8.8	9.2	9.7
Physics	7.4	7.0	6.9	6.5	6.3	6.1	6.1	6.1	5.5	4.9
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Psychology	12.1	11.4	10.7	10.0	10.5	11.0	11.3	11.1	10.9	10.5
Social sciences ¹	13.5	13.9	14.6	14.4	14.1	15.1	15.9	15.4	15.7	15.6
U.S. citizens, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	6.0	6.4	6.9	6.7	5.8	6.6	6.3	6.4	5.9	5.9
Aeronautical/astronautical	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1
Chemical	1.0	1.2	1.4	1.0	1.0	1.0	1.4	1.3	1.2	1.1
Civil	0.8	0.6	0.6	0.7	0.8	0.8	0.6	0.9	0.8	1.0
Electrical	1.1	1.3	1.4	1.2	1.0	1.0	1.0	0.7	0.7	0.7
Industrial	0.5	0.4	0.5	0.4	0.3	0.4	0.3	0.3	0.5	0.3
Materials/metallurgical	0.9	0.9	0.8	0.9	0.6	0.8	0.7	0.7	0.7	0.6
Mechanical	0.6	0.5	0.7	0.7	0.6	0.8	0.7	0.5	0.5	0.5
Other engineering	1.0	1.2	1.3	1.5	1.3	1.6	1.4	1.7	1.4	1.6
Sciences ¹	94.0	93.6	93.1	93.3	94.2	93.4	93.7	93.6	94.1	94.1
Agricultural sciences	2.3	1.9	2.4	2.2	2.4	2.2	2.2	2.4	2.2	2.2
Biological sciences	26.2	25.3	26.2	26.3	25.9	25.5	27.3	28.0	28.0	28.0
Computer sciences	1.4	2.0	1.3	1.3	1.6	1.4	1.1	1.3	1.3	1.2
Earth, atmospheric, and ocean sciences	2.2	1.9	1.9	2.3	2.3	2.1	2.4	2.3	2.8	2.7
Mathematics	2.1	2.2	1.7	2.3	2.6	2.6	2.2	2.1	2.0	2.1

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physical sciences	7.9	8.8	7.7	7.6	7.9	7.3	7.3	7.3	7.9	8.0
Astronomy	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5
Chemistry	6.0	6.9	5.5	5.6	6.1	5.6	5.7	5.7	6.2	5.8
Physics	1.5	1.5	1.7	1.5	1.4	1.2	1.0	1.1	1.3	1.6
Other physical sciences	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1
Psychology	33.5	33.8	34.8	32.9	33.1	33.7	32.2	31.3	29.6	30.3
Social sciences ¹	18.4	17.8	17.2	18.4	18.5	18.7	19.0	18.8	20.3	19.7
Non-U.S. citizens with permanent visas										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	27.7	27.2	26.4	26.0	23.7	24.4	24.8	23.4	23.2	24.1
Aeronautical/astronautical	0.7	0.4	0.6	0.6	0.6	0.5	0.7	0.6	0.9	0.9
Chemical	2.9	2.6	2.4	3.9	2.3	2.3	3.1	2.3	2.9	1.8
Civil	2.9	2.9	3.1	3.4	2.5	3.1	2.8	3.7	3.2	2.7
Electrical	8.8	8.2	7.3	8.2	8.2	7.7	8.2	7.4	7.1	8.3
Industrial	1.0	1.2	1.0	0.7	0.8	0.8	0.7	1.2	0.9	1.5
Materials/metallurgical	2.6	3.2	3.1	1.9	2.4	2.1	1.6	1.8	0.9	2.2
Mechanical	5.9	5.1	5.1	3.6	4.1	3.9	3.9	3.3	4.9	4.1
Other engineering	2.9	3.6	3.8	3.7	2.8	3.9	3.8	3.1	2.6	2.6
Sciences ¹	72.3	72.8	73.6	74.0	76.3	75.6	75.2	76.6	76.8	75.9
Agricultural sciences	3.2	3.0	3.4	3.6	3.9	3.1	3.9	2.2	2.7	3.1
Biological sciences	22.0	23.8	27.2	25.7	27.3	28.1	25.8	26.9	27.0	24.1
Computer sciences	3.9	3.8	3.1	3.9	4.2	4.4	4.9	4.4	5.5	5.1
Earth, atmospheric, and ocean sciences	3.5	3.3	3.2	3.1	3.1	3.1	2.5	2.9	3.1	3.5
Mathematics	5.1	6.2	5.3	4.3	4.6	4.0	4.0	4.3	2.7	4.2
Physical sciences	19.6	20.1	16.4	16.0	15.6	14.6	14.3	14.4	13.8	13.8
Astronomy	0.3	0.6	0.4	0.3	0.7	0.4	0.9	0.3	0.4	0.5
Chemistry	10.8	11.0	9.7	9.0	8.9	9.1	8.7	8.1	8.0	8.5
Physics	8.4	8.4	6.2	6.7	5.8	5.1	4.8	5.9	5.3	4.7
Other physical sciences	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Psychology	2.8	2.9	3.5	3.9	4.6	4.2	5.3	5.9	6.1	6.4
Social sciences ¹	12.2	9.7	11.7	13.4	13.0	14.2	14.4	15.6	16.0	15.8
Non-U.S. citizens with permanent visas, men										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	32.8	32.6	32.6	32.8	29.8	32.1	31.0	31.0	29.5	33.6
Aeronautical/astronautical	0.9	0.5	0.8	0.9	1.0	0.9	1.1	0.8	1.4	1.4
Chemical	3.0	2.9	2.8	4.8	2.6	2.7	3.8	2.4	2.9	2.7
Civil	3.7	3.5	4.0	4.3	3.2	4.2	3.8	5.4	4.4	4.1
Electrical	10.8	9.9	9.4	10.3	10.5	10.3	10.2	9.5	9.4	12.2
Industrial	1.2	1.3	1.1	0.9	1.1	1.0	1.0	1.3	0.9	1.9
Materials/metallurgical	3.0	3.5	3.6	2.1	2.6	2.9	1.8	2.2	0.9	2.4
Mechanical	7.0	6.4	6.5	4.8	5.2	5.4	5.1	5.1	7.1	6.1

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Other engineering	3.3	4.5	4.5	4.8	3.7	4.9	4.2	4.3	2.6	2.9
Sciences ¹	67.2	67.4	67.4	67.2	70.2	67.9	69.0	69.0	70.5	66.4
Agricultural sciences	3.1	3.3	3.5	4.1	3.8	3.3	4.0	1.9	2.7	2.4
Biological sciences	18.6	18.6	22.0	20.0	23.3	23.7	20.5	21.1	19.8	19.2
Computer sciences	4.5	4.2	3.7	4.8	4.8	5.4	6.2	5.6	6.8	6.3
Earth, atmospheric, and ocean sciences	3.9	3.4	3.8	3.5	2.9	3.3	2.6	3.1	3.6	3.9
Mathematics	5.6	6.7	5.6	4.3	4.9	3.7	4.0	5.1	2.9	4.2
Physical sciences	18.8	20.7	16.7	16.7	16.5	15.2	15.4	16.7	16.8	14.4
Astronomy	0.4	0.7	0.4	0.4	0.8	0.4	1.0	0.3	0.8	0.5
Chemistry	9.2	10.4	8.9	8.3	8.1	8.2	8.3	8.1	8.6	7.5
Physics	9.2	9.6	7.3	8.0	7.4	6.6	5.9	8.2	7.3	6.3
Other physical sciences	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2
Psychology	1.2	1.4	1.2	1.8	2.4	2.0	3.3	3.1	3.9	3.7
Social sciences ¹	11.5	9.0	10.9	12.0	11.6	11.2	13.0	12.4	13.9	12.4
Non-U.S. citizens with permanent visas, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	13.3	14.3	11.9	12.7	11.4	10.8	13.9	12.7	15.0	13.2
Aeronautical/astronautical	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.4
Chemical	2.7	1.8	1.7	2.1	1.8	1.7	1.8	2.1	3.0	0.8
Civil	0.9	1.6	1.1	1.7	1.2	1.2	1.2	1.3	1.6	1.2
Electrical	3.0	4.0	2.5	4.1	3.7	3.2	4.7	4.5	4.2	3.7
Industrial	0.4	0.8	0.6	0.4	0.3	0.5	0.2	0.9	0.8	1.0
Materials/metallurgical	1.5	2.5	1.9	1.7	2.1	0.8	1.4	1.3	0.8	2.0
Mechanical	2.8	2.1	1.7	1.2	1.3	1.3	1.8	0.7	2.0	1.8
Other engineering	1.9	1.6	2.3	1.6	1.0	2.2	2.9	1.5	2.6	2.4
Sciences ¹	86.7	85.7	88.1	87.3	88.6	89.2	86.1	87.3	85.0	86.8
Agricultural sciences	3.5	2.2	3.3	2.7	4.3	2.7	3.7	2.6	2.6	3.9
Biological sciences	31.7	36.3	39.2	36.6	35.5	35.8	35.4	35.0	36.4	29.8
Computer sciences	2.1	2.6	1.5	2.3	3.0	2.5	2.6	2.6	3.8	3.7
Earth, atmospheric, and ocean sciences	2.4	3.1	1.8	2.3	3.4	2.7	2.4	2.6	2.4	3.0
Mathematics	3.7	5.0	4.4	4.4	4.0	4.5	3.7	3.2	2.4	4.1
Physical sciences	21.7	18.5	15.7	14.9	13.6	13.6	12.6	11.2	9.9	13.0
Astronomy	0.1	0.4	0.4	0.1	0.6	0.3	0.6	0.4	0.0	0.4
Chemistry	15.0	12.5	11.7	10.3	10.3	10.6	9.2	8.1	7.1	9.7
Physics	6.4	5.5	3.6	4.1	2.7	2.7	2.8	2.6	2.8	3.0
Other physical sciences	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0
Psychology	7.3	6.4	8.6	8.0	9.0	8.2	8.8	9.7	8.9	9.5
Social sciences ¹	14.3	11.5	13.5	16.0	16.0	19.3	16.9	20.2	18.6	19.7
Non-U.S. citizens with temporary visas										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	35.2	36.1	34.9	34.0	33.2	30.3	32.0	35.0	34.4	34.7

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients:
1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Aeronautical/astronautical	1.3	1.3	1.2	1.3	0.9	1.1	1.0	1.1	1.4	1.3
Chemical	4.5	4.5	5.1	4.6	4.8	3.9	4.0	4.2	4.2	4.0
Civil	5.1	4.8	4.7	4.1	4.1	3.5	3.7	3.8	4.5	4.6
Electrical	9.8	10.2	9.6	9.5	9.1	8.8	10.2	11.7	10.7	11.0
Industrial	1.4	1.9	1.5	1.6	1.5	1.5	1.2	1.4	1.7	1.6
Materials/metallurgical	3.1	3.2	2.8	3.2	2.9	2.7	2.4	3.1	2.5	3.1
Mechanical	6.1	6.3	5.6	6.0	5.8	4.9	5.7	6.2	5.8	5.3
Other engineering	4.0	3.9	4.4	3.8	4.0	3.9	3.9	3.5	3.5	3.7
Sciences ¹	64.8	63.9	65.1	66.0	66.8	69.7	68.0	65.0	65.6	65.3
Agricultural sciences	6.0	6.1	5.6	5.2	5.9	6.3	5.4	4.5	5.2	4.7
Biological sciences	14.0	13.9	15.9	17.6	17.2	17.8	18.1	15.6	16.8	16.7
Computer sciences	4.6	5.2	4.8	4.4	4.2	4.6	4.7	4.5	4.5	4.5
Earth, atmospheric, and ocean sciences	2.6	2.5	2.6	3.1	2.8	3.3	2.7	3.2	3.3	2.7
Mathematics	6.0	5.5	5.7	5.9	5.7	6.1	5.8	5.5	5.7	5.2
Physical sciences	14.7	13.3	14.6	14.4	15.5	15.6	15.1	15.3	14.5	14.6
Astronomy	0.4	0.4	0.5	0.5	0.7	0.5	0.5	0.7	0.4	0.4
Chemistry	7.9	7.0	7.8	8.0	8.5	8.6	8.5	8.5	7.8	8.2
Physics	6.3	5.7	6.2	5.9	6.3	6.4	6.0	6.1	6.3	5.9
Other physical sciences	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	2.0	2.4	2.3	1.8	2.2	2.1	2.1	1.9	2.0	2.3
Social sciences ¹	14.8	15.2	13.6	13.5	13.3	13.9	14.1	14.5	13.5	14.5
Non-U.S. citizens with temporary visas, men										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	39.8	41.1	39.6	39.2	38.3	34.6	37.1	39.7	39.5	40.1
Aeronautical/astronautical	1.5	1.6	1.4	1.6	1.1	1.4	1.2	1.3	1.7	1.5
Chemical	4.9	5.1	5.6	5.0	5.2	4.3	4.5	4.3	4.4	4.2
Civil	5.8	5.5	5.4	4.8	4.6	4.1	4.2	4.3	5.1	5.4
Electrical	10.9	11.6	11.0	11.3	10.9	10.3	12.0	13.4	12.8	13.1
Industrial	1.7	2.0	1.6	1.8	1.7	1.7	1.4	1.6	1.9	1.7
Materials/metallurgical	3.5	3.6	3.2	3.5	3.3	2.9	2.7	3.3	2.9	3.3
Mechanical	7.2	7.4	6.6	7.0	7.1	5.8	6.9	7.4	7.0	6.6
Other engineering	4.4	4.3	4.7	4.1	4.4	4.2	4.3	4.0	3.7	4.2
Sciences ¹	60.2	58.9	60.4	60.8	61.7	65.4	62.9	60.3	60.5	59.9
Agricultural sciences	5.9	5.9	5.4	5.0	5.9	6.1	5.4	4.2	5.1	4.2
Biological sciences	11.3	11.0	12.6	13.7	13.2	14.7	14.4	12.4	13.6	13.1
Computer sciences	4.9	5.6	5.3	4.9	5.1	5.1	5.4	5.2	5.0	5.1
Earth, atmospheric, and ocean sciences	2.6	2.6	2.7	3.2	2.9	3.5	2.5	3.2	3.5	2.7
Mathematics	5.9	5.3	5.7	6.1	6.0	6.5	6.2	5.4	5.6	5.5
Physical sciences	14.6	13.4	14.7	14.4	15.4	15.7	15.6	15.8	14.4	15.2
Astronomy	0.5	0.4	0.6	0.5	0.6	0.5	0.6	0.8	0.5	0.4
Chemistry	7.1	6.6	7.3	7.4	7.6	7.9	8.2	8.0	6.9	7.9
Physics	7.0	6.3	6.8	6.5	7.2	7.2	6.7	7.0	7.0	6.8

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Other physical sciences	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
Psychology	1.1	1.4	1.4	1.0	1.1	1.3	1.2	1.1	1.1	1.2
Social sciences ¹	13.8	13.7	12.7	12.6	12.0	12.6	12.3	12.9	12.2	12.9
Non-U.S. citizens with temporary visas, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	13.5	12.7	15.2	13.9	15.6	15.8	16.2	20.7	19.6	19.8
Aeronautical/astronautical	0.2	0.1	0.3	0.3	0.1	0.3	0.2	0.4	0.5	0.7
Chemical	2.6	1.7	3.0	2.8	3.4	2.7	2.6	4.0	3.8	3.6
Civil	1.9	1.8	2.1	1.4	2.2	1.6	2.0	2.1	2.8	2.5
Electrical	4.2	3.5	3.5	2.4	3.0	3.8	4.7	6.5	4.5	5.0
Industrial	0.3	1.3	0.9	0.7	0.8	0.7	0.8	0.8	1.4	1.4
Materials/metallurgical	1.2	1.2	1.3	2.2	1.7	2.0	1.4	2.5	1.5	2.4
Mechanical	1.1	1.0	1.1	1.9	1.7	1.9	1.9	2.5	2.4	1.9
Other engineering	2.0	2.1	3.1	2.2	2.7	2.9	2.6	2.0	2.8	2.3
Sciences ¹	86.5	87.3	84.8	86.1	84.4	84.2	83.8	79.3	80.4	80.2
Agricultural sciences	6.6	7.1	6.8	6.1	6.1	7.0	5.6	5.6	5.5	5.9
Biological sciences	26.9	26.8	29.4	33.1	30.7	28.4	29.7	25.4	26.3	26.6
Computer sciences	3.1	3.4	2.8	2.5	1.3	2.9	2.6	2.4	3.2	3.0
Earth, atmospheric, and ocean sciences	3.0	1.8	2.4	2.4	2.3	2.9	3.1	3.1	2.4	2.7
Mathematics	6.4	6.3	5.5	4.9	4.8	4.7	4.5	5.6	6.2	4.7
Physical sciences	15.1	12.8	13.9	14.7	15.9	15.0	13.5	13.9	14.6	12.9
Astronomy	0.3	0.3	0.4	0.7	1.0	0.4	0.3	0.4	0.2	0.4
Chemistry	11.9	9.2	9.9	10.1	11.6	10.9	9.3	10.0	10.2	9.0
Physics	2.9	3.1	3.6	3.8	3.2	3.7	3.8	3.3	4.0	3.4
Other physical sciences	0.0	0.2	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1
Psychology	6.1	6.8	6.3	5.2	5.8	5.0	5.2	4.3	4.8	5.5
Social sciences ¹	19.5	22.1	17.7	17.2	17.5	18.3	19.7	19.1	17.4	18.9
Citizenship unknown										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	23.9	26.1	24.5	17.1	23.9	22.1	25.0	22.2	19.0	16.1
Aeronautical/astronautical	0.8	0.9	1.3	0.6	1.4	1.1	1.1	1.1	0.8	0.7
Chemical	1.7	1.7	0.8	1.1	2.3	1.9	3.0	2.8	3.1	1.2
Civil	1.5	1.9	2.8	1.4	3.0	1.7	1.3	2.1	2.2	1.4
Electrical	8.1	9.0	8.2	5.1	6.7	6.6	9.3	6.7	4.5	4.1
Industrial	0.0	0.8	0.8	0.7	0.6	0.4	0.4	0.7	1.1	0.3
Materials/metallurgical	1.9	2.3	2.0	1.7	1.9	1.3	2.2	1.9	1.9	1.2
Mechanical	3.7	4.3	3.7	2.6	4.3	3.4	2.9	2.6	2.8	2.9
Other engineering	6.2	5.3	5.0	3.9	3.7	5.8	4.8	4.3	2.6	4.3
Sciences ¹	76.1	73.9	75.5	82.9	76.1	77.9	75.0	77.8	81.0	83.9
Agricultural sciences	1.7	1.7	2.4	3.0	2.6	1.2	2.2	5.1	5.2	4.4
Biological sciences	11.6	14.3	15.3	15.9	16.3	15.1	16.9	16.5	20.7	20.5

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Computer sciences	3.5	3.0	3.8	4.4	3.0	2.9	3.3	3.5	2.8	3.9
Earth, atmospheric, and ocean sciences	2.5	2.4	4.0	3.0	2.9	3.3	3.8	2.4	3.0	3.6
Mathematics	2.1	6.6	4.1	4.0	4.9	3.0	2.8	3.8	2.6	3.2
Physical sciences	16.4	13.0	16.8	14.1	13.3	15.5	13.3	10.4	11.4	10.8
Astronomy	0.0	0.8	0.1	0.2	0.6	0.4	0.3	0.8	0.3	0.2
Chemistry	9.1	8.5	9.6	8.3	7.3	9.2	8.4	6.0	7.1	7.2
Physics	6.4	3.8	7.0	5.4	5.4	5.8	4.5	3.1	3.9	2.8
Other physical sciences	0.8	0.0	0.0	0.2	0.1	0.0	0.1	0.5	0.1	0.6
Psychology	19.1	15.0	10.8	22.2	18.6	19.8	18.7	20.6	18.0	19.3
Social sciences ¹	19.3	17.9	18.3	16.2	14.4	17.1	14.1	15.6	17.2	18.2
Citizenship unknown, men										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	27.8	28.8	27.3	21.9	30.4	27.0	30.9	29.7	22.3	22.3
Aeronautical/astronautical	1.5	1.0	1.8	0.7	2.2	1.4	1.1	1.5	1.0	1.1
Chemical	2.2	2.8	1.1	1.3	2.8	2.5	4.0	3.2	3.2	1.7
Civil	1.5	1.4	3.8	2.0	3.9	2.6	1.3	2.9	2.5	2.1
Electrical	10.3	9.0	7.9	7.3	8.3	7.7	11.8	9.7	5.7	5.4
Industrial	0.0	0.3	0.9	1.0	0.8	0.6	0.3	0.8	0.7	0.3
Materials/metallurgical	1.1	2.8	1.6	2.2	2.4	1.4	3.0	2.8	2.4	1.7
Mechanical	4.0	5.2	3.6	3.6	5.0	4.0	3.9	3.5	3.7	4.3
Other engineering	7.3	6.3	6.5	3.9	4.9	6.9	5.5	5.3	3.2	5.7
Sciences ¹	72.2	71.2	72.7	78.1	69.6	73.0	69.1	70.3	77.7	77.7
Agricultural sciences	1.5	0.7	2.9	3.2	3.1	0.9	3.0	5.6	6.2	4.1
Biological sciences	11.7	11.1	14.2	15.5	15.5	14.1	15.2	15.6	20.5	20.4
Computer sciences	4.4	4.5	3.8	4.5	3.1	3.4	4.0	4.1	3.4	5.1
Earth, atmospheric, and ocean sciences	2.2	2.4	3.8	3.8	3.7	3.5	4.8	2.1	3.8	4.1
Mathematics	2.2	9.0	4.1	4.6	5.4	3.7	3.0	4.7	2.9	4.3
Physical sciences	20.9	14.6	17.6	17.6	14.5	19.9	15.6	11.6	14.5	12.1
Astronomy	0.0	1.0	0.2	0.3	0.9	0.8	0.5	0.8	0.2	0.4
Chemistry	11.4	8.3	8.6	9.9	7.1	10.9	9.0	6.5	8.4	7.1
Physics	8.4	5.2	8.8	7.1	6.5	8.3	5.9	3.9	5.7	3.7
Other physical sciences	1.1	0.0	0.0	0.3	0.0	0.0	0.1	0.4	0.1	0.9
Psychology	12.1	13.2	6.3	12.6	10.9	11.6	11.3	10.8	10.0	10.6
Social sciences ¹	17.2	15.6	19.9	16.3	13.4	15.9	12.3	15.7	16.4	17.0
Citizenship unknown, women										
Science and engineering ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering	8.5	13.6	12.5	6.4	11.4	10.2	11.1	9.7	12.3	3.9
Aeronautical/astronautical	0.0	0.8	0.5	0.0	0.2	0.6	0.8	0.4	0.6	0.0
Chemical	0.0	0.0	0.0	0.5	0.9	1.1	0.8	2.0	2.8	0.2
Civil	0.0	0.8	0.5	0.2	0.7	0.6	0.8	0.7	1.6	0.2
Electrical	2.8	7.2	6.0	1.9	3.1	3.3	3.5	2.0	1.8	0.9
Industrial	0.0	0.0	1.1	0.2	0.5	0.0	0.5	0.4	1.6	0.0

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by citizenship status, sex, and major field of study of recipients: 1994–2003
(Percent distribution)

Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Materials/metallurgical	2.8	0.8	0.5	0.2	0.7	0.3	0.8	0.4	1.0	0.5
Mechanical	0.9	1.6	1.1	0.9	3.3	1.4	1.3	0.9	1.0	0.2
Other engineering	1.9	2.4	2.7	2.4	1.9	3.0	2.8	2.9	1.8	1.8
Sciences ¹	91.5	86.4	87.5	93.6	88.6	89.8	88.9	90.3	87.7	96.1
Agricultural sciences	1.9	3.2	2.7	2.8	1.9	0.8	1.0	3.3	3.6	4.8
Biological sciences	10.4	18.4	17.9	16.7	18.2	17.1	20.6	17.7	22.3	21.5
Computer sciences	1.9	0.0	3.3	2.8	3.1	1.1	1.8	2.2	1.4	2.3
Earth, atmospheric, and ocean sciences	0.0	3.2	3.3	2.1	1.7	2.8	1.0	2.9	1.4	3.0
Mathematics	0.9	2.4	1.6	2.6	3.3	2.2	2.8	2.6	2.0	1.6
Physical sciences	3.8	8.0	12.5	9.9	10.2	8.3	9.5	8.4	6.8	8.4
Astronomy	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.9	0.4	0.0
Chemistry	3.8	7.2	9.8	6.8	6.9	7.2	7.3	5.1	5.2	7.3
Physics	0.0	0.0	2.7	2.6	3.3	1.1	2.3	1.8	1.2	0.9
Other physical sciences	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.2
Psychology	50.9	31.2	27.7	41.9	33.9	37.8	34.4	37.7	32.2	34.9
Social sciences ¹	21.7	20.0	18.5	14.8	16.4	19.6	17.8	15.5	17.9	19.6

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

NOTE: Persons with unknown citizenship, sex are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	30,897	32,059	31,540	31,082	31,158	30,292	29,928	28,869	27,646	28,044
Science and engineering ¹	18,188	18,996	18,647	18,393	18,256	17,565	17,114	16,338	15,508	15,669
Engineering	3,053	3,342	3,389	3,332	3,044	2,888	2,571	2,439	2,163	2,163
Chemical	380	381	391	409	374	371	382	358	336	292
Civil	292	309	305	327	297	312	261	269	247	269
Electrical	899	971	929	940	804	766	648	560	507	494
Mechanical	538	563	588	538	515	463	396	427	342	332
Other engineering	944	1,118	1,176	1,118	1,054	976	884	825	731	776
Sciences ¹	15,135	15,654	15,258	15,061	15,212	14,677	14,543	13,899	13,345	13,506
Agricultural sciences	616	598	575	550	543	494	502	431	421	477
Biological sciences	4,088	4,329	4,364	4,256	4,308	4,124	4,268	4,243	4,111	4,047
Computer sciences	543	616	514	520	561	492	457	423	419	440
Earth, atmospheric, and ocean sciences	613	594	558	607	562	526	510	467	494	512
Mathematics	657	771	648	629	669	605	574	524	442	516
Physical sciences	2,789	2,841	2,571	2,497	2,455	2,277	2,092	2,045	1,939	1,966
Astronomy	112	141	149	158	147	117	139	123	109	130
Chemistry	1,616	1,624	1,463	1,439	1,467	1,406	1,241	1,230	1,229	1,262
Physics	1,044	1,059	949	883	823	742	692	677	589	552
Other physical sciences	17	17	10	17	18	12	20	15	12	22
Psychology	3,136	3,184	3,233	3,125	3,274	3,292	3,231	3,033	2,794	2,846
Social sciences ¹	2,693	2,721	2,795	2,877	2,840	2,867	2,909	2,733	2,725	2,702
Non-S&E ¹	12,709	13,063	12,893	12,689	12,902	12,727	12,814	12,531	12,138	12,375
Education	6,066	5,995	6,075	5,747	5,745	5,814	5,680	5,450	5,395	5,631
Health	1,050	1,043	1,016	1,028	1,154	1,049	1,195	1,157	1,191	1,225
Humanities ¹	3,765	4,056	4,047	4,235	4,327	4,292	4,391	4,379	4,111	4,130
Professional/other/unknown	1,828	1,969	1,755	1,679	1,676	1,572	1,548	1,545	1,441	1,389
American Indian/Alaskan Native										
Grand total, all fields	143	148	186	167	189	214	169	151	150	136
Science and engineering ¹	64	68	95	79	96	114	88	74	70	72
Engineering	6	9	14	17	13	12	8	7	7	11
Chemical	1	2	1	4	3	2	1	1	2	1
Civil	0	0	2	2	0	2	1	0	0	1
Electrical	1	1	2	5	3	1	0	1	0	5
Mechanical	0	2	3	6	2	2	3	1	1	1
Other engineering	4	4	6	0	5	5	3	4	4	3
Sciences ¹	58	59	81	62	83	102	80	67	63	61
Agricultural sciences	1	2	6	5	9	1	4	0	2	4
Biological sciences	16	15	20	7	12	20	17	15	12	11
Computer sciences	1	0	4	1	4	1	1	1	2	2
Earth, atmospheric, and ocean sciences	1	0	2	2	3	6	5	0	0	2
Mathematics	2	2	1	1	3	1	2	2	3	2
Physical sciences	6	8	6	10	9	9	9	12	7	2
Astronomy	0	0	0	1	1	1	1	1	0	0
Chemistry	4	6	4	6	7	5	7	11	5	2

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	2	2	2	2	1	3	1	0	2	0
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Psychology	12	14	17	18	31	35	22	17	15	22
Social sciences ¹	19	18	25	18	12	29	20	20	22	16
Non-S&E ¹	79	80	91	88	93	100	81	77	80	64
Education	37	41	60	51	50	58	51	42	46	40
Health	6	9	4	6	4	6	4	6	3	2
Humanities ¹	20	18	18	19	21	21	20	21	20	15
Professional/other/unknown	16	12	9	12	18	15	6	8	11	7
Asian/Pacific Islander										
Grand total, all fields	3,534	4,297	3,674	3,109	2,707	2,495	2,272	2,218	2,186	2,094
Science and engineering ¹	2,982	3,659	3,079	2,529	2,135	1,932	1,706	1,649	1,659	1,555
Engineering	865	1,032	896	707	554	512	439	426	411	342
Chemical	96	101	80	73	65	58	69	53	71	47
Civil	69	91	89	72	38	46	43	37	29	21
Electrical	303	322	276	256	205	172	141	134	131	129
Mechanical	179	188	166	113	89	88	72	76	71	51
Other engineering	218	330	285	193	157	148	114	126	109	94
Sciences ¹	2,117	2,627	2,183	1,822	1,581	1,420	1,267	1,223	1,248	1,213
Agricultural sciences	72	78	80	63	47	46	30	16	24	23
Biological sciences	719	920	885	721	657	608	539	558	581	542
Computer sciences	116	137	111	107	90	87	76	61	86	82
Earth, atmospheric, and ocean sciences	89	104	77	70	51	39	28	35	31	26
Mathematics	142	207	140	97	71	56	70	48	29	51
Physical sciences	598	749	501	400	331	252	203	202	200	186
Astronomy	10	22	12	8	13	3	13	6	13	8
Chemistry	331	415	295	234	206	183	121	126	127	114
Physics	254	311	193	157	111	66	68	70	60	63
Other physical sciences	3	1	1	1	1	0	1	0	0	1
Psychology	108	121	121	126	113	132	145	122	128	125
Social sciences ¹	273	311	268	238	221	200	176	181	169	178
Non-S&E ¹	552	638	595	580	572	563	566	569	527	539
Education	172	179	180	180	177	166	173	153	154	163
Health	93	93	87	87	83	87	99	108	95	90
Humanities ¹	149	192	187	179	192	193	176	184	178	186
Professional/other/unknown	138	174	141	134	120	117	118	124	100	100
Black										
Grand total, all fields	1,277	1,461	1,446	1,474	1,604	1,762	1,748	1,732	1,749	1,796
Science and engineering ¹	498	550	572	615	644	714	710	703	685	661
Engineering	53	70	74	98	81	98	81	92	85	75
Chemical	8	3	12	16	3	11	8	17	12	9
Civil	8	11	8	10	9	6	6	11	13	9
Electrical	17	24	22	31	23	30	21	22	16	19

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	7	13	10	12	13	12	18	17	17	9
Other engineering	13	19	22	29	33	39	28	25	27	29
Sciences ¹	445	480	498	517	563	616	629	611	600	586
Agricultural sciences	22	17	24	24	19	24	18	13	12	16
Biological sciences	78	107	98	112	111	116	118	139	124	108
Computer sciences	10	11	12	4	14	18	18	15	17	17
Earth, atmospheric, and ocean sciences	6	3	4	8	8	14	7	6	6	17
Mathematics	11	5	8	7	16	12	14	19	14	16
Physical sciences	46	42	59	51	56	66	62	55	67	57
Astronomy	0	1	0	2	1	2	1	1	1	1
Chemistry	34	33	45	35	45	56	44	42	44	42
Physics	11	8	14	14	10	8	16	12	22	12
Other physical sciences	1	0	0	0	0	0	1	0	0	2
Psychology	124	149	152	152	158	172	189	174	171	168
Social sciences ¹	148	146	141	159	181	194	203	190	189	187
Non-S&E ¹	779	911	874	859	960	1,048	1,038	1,029	1,064	1,135
Education	521	623	607	553	655	689	693	670	692	758
Health	46	60	48	55	65	57	75	64	72	79
Humanities ¹	106	115	116	141	139	164	158	168	160	154
Professional/other/unknown	106	113	103	110	101	138	112	127	140	144
Hispanic, total ²										
Grand total, all fields	1,030	1,064	1,113	1,198	1,327	1,324	1,308	1,271	1,368	1,419
Science and engineering ¹	548	573	626	658	754	722	729	673	724	738
Engineering	66	77	99	96	110	83	82	90	97	103
Chemical	7	13	19	7	13	7	18	7	16	16
Civil	14	11	6	12	16	12	9	9	8	13
Electrical	21	15	27	26	31	30	22	22	31	23
Mechanical	8	8	13	14	19	9	12	21	12	13
Other engineering	16	30	34	37	31	25	21	31	30	38
Sciences ¹	482	496	527	562	644	639	647	583	627	635
Agricultural sciences	25	21	13	26	35	15	26	20	18	22
Biological sciences	131	127	131	146	168	175	173	165	182	175
Computer sciences	7	6	16	16	15	14	14	8	14	10
Earth, atmospheric, and ocean sciences	8	13	19	16	16	21	18	15	17	18
Mathematics	13	15	11	20	27	15	15	15	12	16
Physical sciences	90	73	67	69	54	63	78	65	64	72
Astronomy	2	4	2	3	2	1	3	7	4	3
Chemistry	59	43	36	44	34	46	51	43	38	45
Physics	29	26	29	22	18	16	23	15	22	24
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	133	146	173	171	208	215	211	175	185	169
Social sciences ¹	75	95	97	98	121	121	112	120	135	153
Non-S&E ¹	482	491	487	540	573	602	579	598	644	681

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Education	241	258	218	257	290	303	284	275	320	337
Health	25	30	38	32	37	46	34	30	32	44
Humanities ¹	168	154	178	208	198	197	208	230	241	245
Professional/other/unknown	48	49	53	43	48	56	53	63	51	55
Puerto Rican										
Grand total, all fields	257	269	252	313	308	335	329	303	345	259
Science and engineering ¹	131	137	142	171	173	184	185	155	196	148
Engineering	10	13	22	23	17	23	20	13	26	19
Chemical	2	4	4	1	3	2	5	2	8	4
Civil	1	1	1	5	1	2	2	2	1	4
Electrical	3	3	4	4	3	11	6	2	7	4
Mechanical	1	1	3	6	5	2	2	1	3	2
Other engineering	3	4	10	7	5	6	5	6	7	5
Sciences ¹	121	124	120	148	156	161	165	142	170	129
Agricultural sciences	5	3	4	4	3	1	6	4	8	3
Biological sciences	28	30	32	36	43	47	33	48	56	35
Computer sciences	4	0	5	6	2	6	5	1	4	2
Earth, atmospheric, and ocean sciences	0	2	3	6	5	5	5	3	4	4
Mathematics	1	1	3	4	7	2	2	2	3	3
Physical sciences	26	21	12	20	11	22	20	14	20	17
Astronomy	0	1	0	0	1	0	0	0	1	1
Chemistry	19	17	9	13	9	18	19	11	11	14
Physics	7	3	3	7	1	4	1	3	8	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	43	44	48	56	71	57	74	45	50	47
Social sciences ¹	14	23	13	16	14	21	20	25	25	18
Non-S&E ¹										
Grand total, all fields	126	132	110	142	135	151	144	148	149	111
Education	68	69	52	72	77	90	75	88	79	52
Health	6	12	7	10	7	11	9	5	9	4
Humanities ¹	38	30	38	49	37	31	44	41	51	40
Professional/other/unknown	14	21	13	11	14	19	16	14	10	15
Mexican American										
Grand total, all fields	308	291	293	306	424	350	415	403	413	448
Science and engineering ¹	145	151	149	161	223	164	214	187	188	206
Engineering	15	19	28	18	30	13	26	18	17	16
Chemical	1	3	4	3	1	0	4	0	3	2
Civil	2	7	2	2	5	3	4	1	1	1
Electrical	4	3	9	5	7	4	4	8	4	3
Mechanical	2	2	4	2	3	1	6	4	3	2
Other engineering	6	4	9	6	14	5	8	5	6	8
Sciences ¹	130	132	121	143	193	151	188	169	171	190
Agricultural sciences	6	4	2	2	10	3	6	4	5	7
Biological sciences	30	28	28	44	54	41	46	47	53	50
Computer sciences	2	3	1	2	3	1	4	2	3	3

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Earth, atmospheric, and ocean sciences	4	4	5	3	5	5	5	5	6	0
Mathematics	4	6	2	3	6	7	8	6	2	5
Physical sciences	24	13	23	15	21	16	23	16	16	25
Astronomy	1	1	1	0	1	0	1	3	1	0
Chemistry	19	8	15	9	15	9	17	7	7	19
Physics	4	4	7	6	5	7	5	6	8	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	40	48	38	49	53	43	61	56	51	48
Social sciences ¹	20	26	22	25	41	35	35	33	35	52
Non-S&E ¹	163	140	144	145	201	186	201	216	225	242
Education	102	93	79	90	116	103	115	116	140	152
Health	5	8	6	7	15	16	11	7	8	13
Humanities ¹	42	34	41	38	59	49	62	70	65	60
Professional/other/unknown	14	5	18	10	11	18	13	23	12	17
Other Hispanic										
Grand total, all fields	465	504	568	579	595	639	564	565	610	712
Science and engineering ¹	272	285	335	326	358	374	330	331	340	384
Engineering	41	45	49	55	63	47	36	59	54	68
Chemical	4	6	11	3	9	5	9	5	5	10
Civil	11	3	3	5	10	7	3	6	6	8
Electrical	14	9	14	17	21	15	12	12	20	16
Mechanical	5	5	6	6	11	6	4	16	6	9
Other engineering	7	22	15	24	12	14	8	20	17	25
Sciences ¹	231	240	286	271	295	327	294	272	286	316
Agricultural sciences	14	14	7	20	22	11	14	12	5	12
Biological sciences	73	69	71	66	71	87	94	70	73	90
Computer sciences	1	3	10	8	10	7	5	5	7	5
Earth, atmospheric, and ocean sciences	4	7	11	7	6	11	8	7	7	14
Mathematics	8	8	6	13	14	6	5	7	7	8
Physical sciences	40	39	32	34	22	25	35	35	28	30
Astronomy	1	2	1	3	0	1	2	4	2	2
Chemistry	21	18	12	22	10	19	15	25	20	12
Physics	18	19	19	9	12	5	17	6	6	16
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	50	54	87	66	84	115	76	74	84	74
Social sciences ¹	41	46	62	57	66	65	57	62	75	83
Non-S&E ¹	193	219	233	253	237	265	234	234	270	328
Education	71	96	87	95	97	110	94	71	101	133
Health	14	10	25	15	15	19	14	18	15	27
Humanities ¹	88	90	99	121	102	117	102	119	125	145
Professional/other/unknown	20	23	22	22	23	19	24	26	29	23
White										
Grand total, all fields	24,574	24,686	24,670	23,962	24,273	23,893	23,709	22,682	21,383	21,486

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Science and engineering ¹	13,883	13,887	13,996	13,828	14,003	13,718	13,443	12,754	11,909	11,989
Engineering	2,021	2,092	2,263	2,288	2,170	2,109	1,889	1,747	1,476	1,556
Chemical	259	256	274	293	275	286	280	269	223	210
Civil	199	194	199	220	217	241	194	194	185	217
Electrical	548	590	589	579	523	510	443	368	306	295
Mechanical	337	339	392	377	371	335	279	301	226	246
Other engineering	678	713	809	819	784	737	693	615	536	588
Sciences ¹	11,862	11,795	11,733	11,540	11,833	11,609	11,554	11,007	10,433	10,433
Agricultural sciences	487	473	442	411	417	398	414	371	357	396
Biological sciences	3,105	3,115	3,170	3,158	3,246	3,128	3,308	3,255	3,117	3,053
Computer sciences	401	450	356	361	412	356	336	322	290	304
Earth, atmospheric, and ocean sciences	504	464	449	488	464	434	431	396	424	429
Mathematics	479	535	478	479	526	506	464	428	369	407
Physical sciences	2,024	1,923	1,886	1,884	1,916	1,840	1,691	1,649	1,547	1,552
Astronomy	97	111	131	132	120	109	115	103	87	104
Chemistry	1,179	1,111	1,062	1,078	1,129	1,090	988	974	987	1,001
Physics	735	687	684	659	651	630	571	557	461	429
Other physical sciences	13	14	9	15	16	11	17	15	12	18
Psychology	2,729	2,722	2,744	2,523	2,645	2,701	2,607	2,454	2,228	2,254
Social sciences ¹	2,133	2,113	2,208	2,236	2,207	2,246	2,303	2,132	2,101	2,038
Non-S&E ¹	10,691	10,799	10,674	10,134	10,270	10,175	10,266	9,928	9,474	9,497
Education	5,041	4,848	4,940	4,458	4,406	4,505	4,373	4,200	4,036	4,148
Health	867	832	822	828	929	837	961	922	967	967
Humanities ¹	3,275	3,514	3,483	3,523	3,604	3,616	3,703	3,624	3,370	3,347
Professional/other/unknown	1,508	1,605	1,429	1,325	1,331	1,217	1,229	1,182	1,101	1,035

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	17,369	17,872	17,203	16,881	16,537	15,892	15,290	14,636	13,718	13,855
Science and engineering ¹	11,692	12,081	11,682	11,391	11,067	10,494	9,980	9,427	8,807	8,866
Engineering	2,604	2,822	2,863	2,819	2,586	2,397	2,080	1,961	1,721	1,726
Chemical	302	293	293	332	297	296	282	265	248	220
Civil	237	257	258	269	239	251	213	203	190	200
Electrical	810	851	823	834	712	685	555	493	441	430
Mechanical	484	514	528	482	461	403	340	389	298	292
Other engineering	771	907	961	902	877	762	690	611	544	584
Sciences ¹	9,088	9,259	8,819	8,572	8,481	8,097	7,900	7,466	7,086	7,140
Agricultural sciences	456	463	401	394	360	333	336	266	268	317
Biological sciences	2,345	2,469	2,423	2,333	2,385	2,260	2,281	2,272	2,193	2,134
Computer sciences	449	473	423	419	437	387	371	325	322	343
Earth, atmospheric, and ocean sciences	469	450	428	442	391	373	342	304	307	327
Mathematics	506	588	503	452	470	413	409	370	308	364
Physical sciences	2,164	2,132	1,961	1,909	1,849	1,724	1,546	1,518	1,398	1,399
Astronomy	91	116	114	132	120	91	104	94	87	99
Chemistry	1,152	1,087	1,024	1,007	1,003	980	819	822	808	847
Physics	907	915	815	759	715	647	609	590	497	439
Other physical sciences	14	14	8	11	11	6	14	12	6	14
Psychology	1,169	1,127	1,048	1,014	1,058	1,063	1,052	983	916	892
Social sciences ¹	1,530	1,557	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,364
Non-S&E ¹	5,677	5,791	5,521	5,490	5,470	5,398	5,310	5,209	4,911	4,989
Education	2,307	2,243	2,243	2,051	2,049	2,013	1,925	1,889	1,796	1,853
Health	328	324	293	287	310	329	341	340	339	354
Humanities ¹	1,976	2,076	2,001	2,197	2,217	2,209	2,215	2,153	2,071	2,080
Professional/other/unknown	1,066	1,148	984	955	894	847	829	827	705	702
American Indian/Alaskan Native										
Grand total, all fields	71	80	101	79	104	96	76	69	69	53
Science and engineering ¹	40	42	60	45	54	59	43	42	37	34
Engineering	4	9	12	14	9	10	4	5	7	9
Chemical	1	2	1	3	0	1	0	1	2	0
Civil	0	0	1	1	0	1	0	0	0	1
Electrical	1	1	1	5	3	1	0	1	0	5
Mechanical	0	2	3	5	2	2	2	1	1	0
Other engineering	2	4	6	0	4	5	2	2	4	3
Sciences ¹	36	33	48	31	45	49	39	37	30	25
Agricultural sciences	1	2	2	5	7	1	3	0	2	3
Biological sciences	11	10	11	4	6	10	10	8	6	3
Computer sciences	0	0	2	0	4	0	1	1	2	2
Earth, atmospheric, and ocean sciences	1	0	2	1	2	3	4	0	0	1
Mathematics	2	1	1	1	1	1	1	1	2	1
Physical sciences	5	5	5	10	8	6	7	10	7	1
Astronomy	0	0	0	1	1	0	0	1	0	0
Chemistry	4	3	3	6	6	3	6	9	5	1

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	1	2	2	2	1	3	1	0	2	0
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Psychology	5	6	8	6	13	12	3	5	7	8
Social sciences ¹	11	9	17	4	4	16	10	12	4	6
Non-S&E ¹	31	38	41	34	50	37	33	27	32	19
Education	10	17	22	18	26	19	17	12	16	9
Health	1	2	1	2	1	0	1	2	0	1
Humanities ¹	12	10	10	8	14	11	11	9	12	7
Professional/other/unknown	8	9	8	6	9	7	4	4	4	2
Asian/Pacific Islander										
Grand total, all fields	2,459	2,859	2,390	1,884	1,626	1,475	1,241	1,198	1,160	1,102
Science and engineering ¹	2,163	2,548	2,105	1,639	1,369	1,217	1,027	956	960	898
Engineering	745	862	762	588	454	428	330	327	312	261
Chemical	71	76	62	61	46	44	48	34	49	37
Civil	65	77	75	58	32	41	33	28	22	17
Electrical	271	276	246	217	173	146	108	105	105	99
Mechanical	155	165	149	97	77	77	56	68	56	42
Other engineering	183	268	230	155	126	120	85	92	80	66
Sciences ¹	1,418	1,686	1,343	1,051	915	789	697	629	648	637
Agricultural sciences	52	62	51	45	29	28	21	7	12	10
Biological sciences	451	511	482	373	365	332	276	287	279	285
Computer sciences	100	107	95	81	67	68	61	41	60	65
Earth, atmospheric, and ocean sciences	72	76	65	51	32	28	17	25	17	15
Mathematics	116	158	104	69	44	36	49	32	23	27
Physical sciences	421	539	356	267	228	159	132	128	137	113
Astronomy	9	18	8	7	10	3	9	6	12	5
Chemistry	203	269	187	141	133	103	67	65	76	63
Physics	207	251	160	119	84	53	56	57	49	45
Other physical sciences	2	1	1	0	1	0	0	0	0	0
Psychology	32	43	31	31	29	34	46	29	43	42
Social sciences ¹	174	190	159	134	121	104	95	80	77	80
Non-S&E ¹	296	311	285	245	257	258	214	242	200	204
Education	65	59	69	52	69	63	53	46	45	46
Health	48	52	47	37	35	39	36	38	22	37
Humanities ¹	81	83	83	72	79	82	63	79	77	68
Professional/other/unknown	102	117	86	84	74	74	62	79	56	53
Black										
Grand total, all fields	552	612	638	636	610	700	642	676	672	651
Science and engineering ¹	282	287	321	329	293	347	319	328	315	285
Engineering	40	55	55	75	59	74	57	67	57	57
Chemical	4	2	7	10	2	7	3	7	6	6
Civil	6	8	7	10	7	4	5	11	9	7
Electrical	14	20	17	27	19	25	19	21	12	16

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	6	12	7	11	13	11	13	16	13	8
Other engineering	10	13	17	17	18	27	17	12	17	20
Sciences ¹	242	232	266	254	234	273	262	261	258	228
Agricultural sciences	16	11	24	18	15	16	10	7	7	10
Biological sciences	33	64	58	52	41	50	44	55	57	44
Computer sciences	8	7	9	3	6	9	13	5	10	12
Earth, atmospheric, and ocean sciences	5	3	2	7	6	9	3	4	6	10
Mathematics	8	4	6	5	9	6	7	12	6	11
Physical sciences	33	24	46	40	25	37	41	35	39	36
Astronomy	0	1	0	1	1	0	0	1	0	1
Chemistry	25	16	35	26	17	33	25	23	22	28
Physics	7	7	11	13	7	4	15	11	17	7
Other physical sciences	1	0	0	0	0	0	1	0	0	0
Psychology	46	39	38	41	43	37	45	50	42	43
Social sciences ¹	93	80	83	88	89	109	99	93	91	62
Non-S&E ¹	270	325	317	307	317	353	323	348	357	366
Education	162	203	202	171	192	202	186	210	210	232
Health	11	18	13	15	14	12	14	12	16	17
Humanities ¹	51	54	53	68	67	70	70	65	73	61
Professional/other/unknown	46	50	49	53	44	69	53	61	58	56
Hispanic, total ²										
Grand total, all fields	518	542	567	624	682	579	609	569	601	662
Science and engineering ¹	318	341	353	392	428	360	379	336	345	376
Engineering	60	66	84	73	97	60	69	68	72	80
Chemical	7	11	13	4	13	3	14	2	9	12
Civil	11	10	6	11	13	6	8	7	8	8
Electrical	21	14	23	20	29	26	21	19	27	19
Mechanical	7	8	13	11	18	8	11	21	7	12
Other engineering	14	23	29	27	24	17	15	19	21	29
Sciences ¹	258	275	269	319	331	300	310	268	273	296
Agricultural sciences	13	16	9	19	22	8	15	10	11	14
Biological sciences	69	80	65	83	89	99	82	88	68	96
Computer sciences	7	2	9	14	14	11	11	4	12	6
Earth, atmospheric, and ocean sciences	6	7	13	11	10	17	15	6	14	9
Mathematics	10	11	11	14	20	10	8	10	8	9
Physical sciences	69	52	55	54	43	41	53	43	42	49
Astronomy	2	2	1	2	2	1	2	6	3	2
Chemistry	43	29	29	32	25	25	30	26	20	27
Physics	24	21	25	20	16	15	20	11	19	20
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	43	49	53	64	56	57	59	46	56	54
Social sciences ¹	41	58	54	60	77	57	67	61	62	59
Non-S&E ¹	200	201	214	232	254	219	230	233	256	286
Education	82	91	87	93	111	91	99	91	104	119

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	7	15	16	8	12	15	10	9	9	11
Humanities ¹	79	72	85	107	103	90	98	98	117	130
Professional/other/unknown	32	23	26	24	28	23	23	35	26	26
Puerto Rican										
Grand total, all fields	123	120	114	153	128	141	130	122	149	126
Science and engineering ¹	72	74	74	98	69	88	78	68	92	75
Engineering	10	11	17	19	16	15	16	9	15	17
Chemical	2	3	2	1	3	1	3	0	3	4
Civil	1	1	1	5	1	1	2	2	1	3
Electrical	3	3	4	3	3	9	6	2	6	4
Mechanical	1	1	3	6	5	2	2	1	1	1
Other engineering	3	3	7	4	4	2	3	4	4	5
Sciences ¹	62	63	57	79	53	73	62	59	77	58
Agricultural sciences	2	3	3	3	2	0	3	2	5	0
Biological sciences	14	21	14	20	20	24	11	18	18	21
Computer sciences	4	0	4	6	1	5	5	1	4	2
Earth, atmospheric, and ocean sciences	0	1	3	4	2	4	5	1	4	4
Mathematics	1	0	3	3	4	2	1	2	3	1
Physical sciences	19	12	8	18	6	13	10	10	16	11
Astronomy	0	0	0	0	1	0	0	0	1	0
Chemistry	13	9	6	11	4	9	9	8	7	9
Physics	6	3	2	7	1	4	1	2	8	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	13	13	15	20	12	16	14	9	14	10
Social sciences ¹	9	13	7	5	6	9	13	16	13	9
Non-S&E ¹										
Education	23	19	17	21	28	24	24	26	26	17
Health	2	7	2	3	3	5	3	2	2	0
Humanities ¹	16	14	16	26	20	14	19	18	26	29
Professional/other/unknown	10	6	5	5	8	10	6	8	3	5
Mexican American										
Grand total, all fields	161	160	166	161	220	163	209	198	180	201
Science and engineering ¹	87	90	95	91	136	91	127	103	84	103
Engineering	13	18	25	11	27	9	23	13	11	12
Chemical	1	2	3	2	1	0	3	0	1	1
Civil	2	7	2	1	4	1	4	0	1	1
Electrical	4	3	8	2	7	3	4	6	4	2
Mechanical	2	2	4	2	3	1	6	4	1	2
Other engineering	4	4	8	4	12	4	6	3	4	6
Sciences ¹	74	72	70	80	109	82	104	90	73	91
Agricultural sciences	4	3	1	2	7	3	4	2	2	6
Biological sciences	17	17	16	22	32	25	27	30	22	32
Computer sciences	2	1	1	2	3	1	3	2	3	1
Earth, atmospheric, and ocean sciences	4	3	3	2	4	4	4	2	5	0

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	3	4	2	2	3	5	4	3	1	2
Physical sciences	20	9	20	13	18	11	20	14	10	15
Astronomy	1	0	1	0	1	0	1	3	0	0
Chemistry	16	6	13	7	12	5	14	5	4	10
Physics	3	3	6	6	5	6	5	6	6	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	17	15	18	20	18	16	22	20	15	16
Social sciences ¹	7	20	9	17	24	17	20	17	15	19
Non-S&E ¹	74	70	71	70	84	72	82	95	96	98
Education	38	42	38	42	45	35	46	50	51	58
Health	2	3	2	0	1	5	2	2	4	2
Humanities ¹	23	21	21	22	33	27	27	30	35	32
Professional/other/unknown	11	4	10	6	5	5	7	13	6	6
Other Hispanic										
Grand total, all fields	234	262	287	310	334	275	270	249	272	335
Science and engineering ¹	159	177	184	203	223	181	174	165	169	198
Engineering	37	37	42	43	54	36	30	46	46	51
Chemical	4	6	8	1	9	2	8	2	5	7
Civil	8	2	3	5	8	4	2	5	6	4
Electrical	14	8	11	15	19	14	11	11	17	13
Mechanical	4	5	6	3	10	5	3	16	5	9
Other engineering	7	16	14	19	8	11	6	12	13	18
Sciences ¹	122	140	142	160	169	145	144	119	123	147
Agricultural sciences	7	10	5	14	13	5	8	6	4	8
Biological sciences	38	42	35	41	37	50	44	40	28	43
Computer sciences	1	1	4	6	10	5	3	1	5	3
Earth, atmospheric, and ocean sciences	2	3	7	5	4	9	6	3	5	5
Mathematics	6	7	6	9	13	3	3	5	4	6
Physical sciences	30	31	27	23	19	17	23	19	16	23
Astronomy	1	2	0	2	0	1	1	3	2	2
Chemistry	14	14	10	14	9	11	7	13	9	8
Physics	15	15	17	7	10	5	14	3	5	13
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	13	21	20	24	26	25	23	17	27	28
Social sciences ¹	25	25	38	38	47	31	34	28	34	31
Non-S&E ¹	75	85	103	107	111	94	96	84	103	137
Education	21	30	32	30	38	32	29	15	27	44
Health	3	5	12	5	8	5	5	5	3	9
Humanities ¹	40	37	48	59	50	49	52	50	56	69
Professional/other/unknown	11	13	11	13	15	8	10	14	17	15
White										
Grand total, all fields	13,545	13,516	13,224	12,996	12,884	12,677	12,308	11,681	10,787	10,790
Science and engineering ¹	8,729	8,673	8,647	8,560	8,510	8,261	7,932	7,471	6,870	6,872

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	1,716	1,771	1,915	1,956	1,863	1,758	1,555	1,429	1,200	1,256
Chemical	211	196	205	241	223	236	213	210	171	160
Civil	153	160	168	180	172	194	160	143	144	159
Electrical	494	523	523	525	470	466	388	334	276	271
Mechanical	311	314	353	344	334	290	246	274	206	219
Other engineering	547	578	666	666	664	572	548	468	403	447
Sciences ¹	7,013	6,902	6,732	6,604	6,647	6,503	6,377	6,042	5,670	5,616
Agricultural sciences	367	369	307	293	277	273	278	236	231	269
Biological sciences	1,758	1,770	1,771	1,759	1,810	1,726	1,798	1,768	1,725	1,606
Computer sciences	326	347	295	295	328	285	274	262	231	240
Earth, atmospheric, and ocean sciences	381	356	340	358	324	307	290	256	264	280
Mathematics	361	409	373	344	376	347	338	308	258	297
Physical sciences	1,616	1,476	1,456	1,472	1,467	1,444	1,272	1,254	1,128	1,126
Astronomy	78	92	101	110	96	86	89	76	69	79
Chemistry	872	760	754	773	785	797	665	677	664	686
Physics	655	613	594	579	577	555	506	489	389	347
Other physical sciences	11	11	7	10	9	6	12	12	6	14
Psychology	1,028	980	909	833	882	912	882	826	748	712
Social sciences ¹	1,176	1,195	1,281	1,250	1,183	1,209	1,245	1,132	1,085	1,086
Non-S&E ¹	4,816	4,843	4,577	4,436	4,374	4,416	4,376	4,210	3,917	3,918
Education	1,964	1,855	1,830	1,622	1,584	1,602	1,536	1,493	1,364	1,381
Health	258	232	212	219	234	257	271	271	285	271
Humanities ¹	1,722	1,817	1,735	1,846	1,854	1,904	1,898	1,820	1,722	1,725
Professional/other/unknown	872	939	800	749	702	653	671	626	546	541

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	13,524	14,184	14,337	14,168	14,591	14,400	14,633	14,233	13,927	14,185
Science and engineering ¹	6,495	6,913	6,965	6,988	7,171	7,071	7,132	6,911	6,700	6,801
Engineering	448	520	526	512	452	491	491	478	442	437
Chemical	78	88	98	77	76	75	100	93	88	72
Civil	55	52	47	58	58	61	48	66	57	69
Electrical	88	120	106	106	91	81	93	67	66	64
Mechanical	54	49	60	55	50	60	56	38	44	40
Other engineering	173	211	215	216	177	214	194	214	187	192
Sciences ¹	6,047	6,393	6,439	6,476	6,719	6,580	6,641	6,433	6,258	6,364
Agricultural sciences	160	135	174	155	183	161	166	165	152	160
Biological sciences	1,743	1,859	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,911
Computer sciences	94	143	91	100	123	105	86	98	97	97
Earth, atmospheric, and ocean sciences	144	144	130	164	171	153	168	163	187	185
Mathematics	151	183	145	177	198	192	164	154	134	152
Physical sciences	625	708	610	587	604	553	546	527	541	567
Astronomy	21	25	35	26	27	26	35	29	22	31
Chemistry	464	537	439	431	463	426	422	408	421	415
Physics	137	143	134	124	107	95	83	87	92	113
Other physical sciences	3	3	2	6	7	6	6	3	6	8
Psychology	1,967	2,057	2,185	2,106	2,211	2,229	2,178	2,050	1,878	1,954
Social sciences ¹	1,163	1,164	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,338
Non-S&E ¹	7,029	7,271	7,372	7,180	7,420	7,329	7,501	7,322	7,227	7,384
Education	3,757	3,752	3,832	3,687	3,690	3,801	3,754	3,561	3,599	3,776
Health	722	719	723	740	844	720	854	817	852	871
Humanities ¹	1,788	1,980	2,046	2,033	2,106	2,083	2,175	2,226	2,040	2,050
Professional/other/unknown	762	820	771	720	780	725	718	718	736	687
American Indian/Alaskan Native										
Grand total, all fields	72	68	85	88	85	118	93	82	81	83
Science and engineering ¹	24	26	35	34	42	55	45	32	33	38
Engineering	2	0	2	3	4	2	4	2	0	2
Chemical	0	0	0	1	3	1	1	0	0	1
Civil	0	0	1	1	0	1	1	0	0	0
Electrical	0	0	1	0	0	0	0	0	0	0
Mechanical	0	0	0	1	0	0	1	0	0	1
Other engineering	2	0	0	0	1	0	1	2	0	0
Sciences ¹	22	26	33	31	38	53	41	30	33	36
Agricultural sciences	0	0	4	0	2	0	1	0	0	1
Biological sciences	5	5	9	3	6	10	7	7	6	8
Computer sciences	1	0	2	1	0	1	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	1	1	3	1	0	0	1
Mathematics	0	1	0	0	2	0	1	1	1	1
Physical sciences	1	3	1	0	1	3	2	2	0	1
Astronomy	0	0	0	0	0	1	1	0	0	0
Chemistry	0	3	1	0	1	2	1	2	0	1

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	1	0	0	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	7	8	9	12	18	23	19	12	8	14
Social sciences ¹	8	9	8	14	8	13	10	8	18	10
Non-S&E ¹	48	42	50	54	43	63	48	50	48	45
Education	27	24	38	33	24	39	34	30	30	31
Health	5	7	3	4	3	6	3	4	3	1
Humanities ¹	8	8	8	11	7	10	9	12	8	8
Professional/other/unknown	8	3	1	6	9	8	2	4	7	5
Asian/Pacific Islander										
Grand total, all fields	1,073	1,437	1,284	1,224	1,073	1,020	1,031	1,020	1,026	991
Science and engineering ¹	818	1,111	974	889	760	715	679	693	699	656
Engineering	119	170	134	119	97	84	109	99	99	81
Chemical	25	25	18	12	19	14	21	19	22	10
Civil	4	14	14	14	6	5	10	9	7	4
Electrical	31	46	30	39	31	26	33	29	26	30
Mechanical	24	23	17	16	10	11	16	8	15	9
Other engineering	35	62	55	38	31	28	29	34	29	28
Sciences ¹	699	941	840	770	663	631	570	594	600	575
Agricultural sciences	20	16	29	18	18	18	9	9	12	13
Biological sciences	268	409	403	348	291	276	263	271	302	256
Computer sciences	16	30	16	26	23	19	15	20	26	17
Earth, atmospheric, and ocean sciences	17	28	12	19	19	11	11	10	14	11
Mathematics	26	49	36	28	27	20	21	16	6	24
Physical sciences	177	210	145	132	101	93	71	74	63	73
Astronomy	1	4	4	1	3	0	4	0	1	3
Chemistry	128	146	108	92	72	80	54	61	51	51
Physics	47	60	33	38	26	13	12	13	11	18
Other physical sciences	1	0	0	1	0	0	1	0	0	1
Psychology	76	78	90	95	84	98	99	93	85	83
Social sciences ¹	99	121	109	104	100	96	81	101	92	98
Non-S&E ¹	255	326	310	335	313	305	352	327	327	335
Education	107	120	111	128	106	103	120	107	109	117
Health	45	41	40	50	48	48	63	70	73	53
Humanities ¹	67	109	104	107	113	111	113	105	101	118
Professional/other/unknown	36	56	55	50	46	43	56	45	44	47
Black										
Grand total, all fields	725	849	808	838	993	1,062	1,106	1,056	1,077	1,143
Science and engineering ¹	216	263	251	286	351	367	391	375	370	376
Engineering	13	15	19	23	22	24	24	25	28	18
Chemical	4	1	5	6	1	4	5	10	6	3
Civil	2	3	1	0	2	2	1	0	4	2
Electrical	3	4	5	4	4	5	2	1	4	3

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	1	1	3	1	0	1	5	1	4	1
Other engineering	3	6	5	12	15	12	11	13	10	9
Sciences ¹	203	248	232	263	329	343	367	350	342	358
Agricultural sciences	6	6	0	6	4	8	8	6	5	6
Biological sciences	45	43	40	60	70	66	74	84	67	64
Computer sciences	2	4	3	1	8	9	5	10	7	5
Earth, atmospheric, and ocean sciences	1	0	2	1	2	5	4	2	0	7
Mathematics	3	1	2	2	7	6	7	7	8	5
Physical sciences	13	18	13	11	31	29	21	20	28	21
Astronomy	0	0	0	1	0	2	1	0	1	0
Chemistry	9	17	10	9	28	23	19	19	22	14
Physics	4	1	3	1	3	4	1	1	5	5
Other physical sciences	0	0	0	0	0	0	0	0	0	2
Psychology	78	110	114	111	115	135	144	124	129	125
Social sciences ¹	55	66	58	71	92	85	104	97	98	125
Non-S&E ¹	509	586	557	552	642	695	715	681	707	767
Education	359	420	405	382	462	487	507	460	482	524
Health	35	42	35	40	51	45	61	52	56	62
Humanities ¹	55	61	63	73	72	94	88	103	87	93
Professional/other/unknown	60	63	54	57	57	69	59	66	82	88
Hispanic, total ²										
Grand total, all fields	512	522	546	574	644	745	698	702	767	757
Science and engineering ¹	230	232	273	266	326	362	349	337	379	362
Engineering	6	11	15	23	13	23	13	22	25	23
Chemical	0	2	6	3	0	4	4	5	7	4
Civil	3	1	0	1	3	6	1	2	0	5
Electrical	0	1	4	6	2	4	1	3	4	4
Mechanical	1	0	0	3	1	1	1	0	5	1
Other engineering	2	7	5	10	7	8	6	12	9	9
Sciences ¹	224	221	258	243	313	339	336	315	354	339
Agricultural sciences	12	5	4	7	13	7	11	10	7	8
Biological sciences	62	47	66	63	79	76	91	77	114	79
Computer sciences	0	4	7	2	1	3	3	4	2	4
Earth, atmospheric, and ocean sciences	2	6	6	5	6	4	3	9	3	9
Mathematics	3	4	0	6	7	5	7	5	4	7
Physical sciences	21	21	12	15	11	22	25	22	22	23
Astronomy	0	2	1	1	0	0	1	1	1	1
Chemistry	16	14	7	12	9	21	21	17	18	18
Physics	5	5	4	2	2	1	3	4	3	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	90	97	120	107	152	158	151	129	129	115
Social sciences ¹	34	37	43	38	44	64	45	59	73	94
Non-S&E ¹	282	290	273	308	318	383	349	365	388	395
Education	159	167	131	164	178	212	185	184	216	218

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	18	15	22	24	25	31	24	21	23	33
Humanities ¹	89	82	93	101	95	107	110	132	124	115
Professional/other/unknown	16	26	27	19	20	33	30	28	25	29
Puerto Rican										
Grand total, all fields	134	149	138	160	180	194	198	181	196	133
Science and engineering ¹	59	63	68	73	104	96	106	87	104	73
Engineering	0	2	5	4	1	8	4	4	11	2
Chemical	0	1	2	0	0	1	2	2	5	0
Civil	0	0	0	0	0	1	0	0	0	1
Electrical	0	0	0	1	0	2	0	0	1	0
Mechanical	0	0	0	0	0	0	0	0	2	1
Other engineering	0	1	3	3	1	4	2	2	3	0
Sciences ¹	59	61	63	69	103	88	102	83	93	71
Agricultural sciences	3	0	1	1	1	1	3	2	3	3
Biological sciences	14	9	18	16	23	23	22	30	38	14
Computer sciences	0	0	1	0	1	1	0	0	0	0
Earth, atmospheric, and ocean sciences	0	1	0	2	3	1	0	2	0	0
Mathematics	0	1	0	1	3	0	1	0	0	2
Physical sciences	7	9	4	2	5	9	10	4	4	6
Astronomy	0	1	0	0	0	0	0	0	0	1
Chemistry	6	8	3	2	5	9	10	3	4	5
Physics	1	0	1	0	0	0	0	1	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	30	31	33	36	59	41	59	36	36	37
Social sciences ¹	5	10	6	11	8	12	7	9	12	9
Non-S&E ¹	75	86	70	87	76	98	92	94	92	60
Education	45	50	35	51	49	66	51	62	53	35
Health	4	5	5	7	4	6	6	3	7	4
Humanities ¹	22	16	22	23	17	17	25	23	25	11
Professional/other/unknown	4	15	8	6	6	9	10	6	7	10
Mexican American										
Grand total, all fields	147	131	127	145	204	187	206	205	233	247
Science and engineering ¹	58	61	54	70	87	73	87	84	104	103
Engineering	2	1	3	7	3	4	3	5	6	4
Chemical	0	1	1	1	0	0	1	0	2	1
Civil	0	0	0	1	1	2	0	1	0	0
Electrical	0	0	1	3	0	1	0	2	0	1
Mechanical	0	0	0	0	0	0	0	0	2	0
Other engineering	2	0	1	2	2	1	2	2	2	2
Sciences ¹	56	60	51	63	84	69	84	79	98	99
Agricultural sciences	2	1	1	0	3	0	2	2	3	1
Biological sciences	13	11	12	22	22	16	19	17	31	18
Computer sciences	0	2	0	0	0	0	1	0	0	2
Earth, atmospheric, and ocean sciences	0	1	2	1	1	1	1	3	1	0

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	1	2	0	1	3	2	4	3	1	3
Physical sciences	4	4	3	2	3	5	3	2	6	10
Astronomy	0	1	0	0	0	0	0	0	1	0
Chemistry	3	2	2	2	3	4	3	2	3	9
Physics	1	1	1	0	0	1	0	0	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	23	33	20	29	35	27	39	36	36	32
Social sciences ¹	13	6	13	8	17	18	15	16	20	33
Non-S&E ¹	89	70	73	75	117	114	119	121	129	144
Education	64	51	41	48	71	68	69	66	89	94
Health	3	5	4	7	14	11	9	5	4	11
Humanities ¹	19	13	20	16	26	22	35	40	30	28
Professional/other/unknown	3	1	8	4	6	13	6	10	6	11
Other Hispanic										
Grand total, all fields	231	242	281	269	260	364	294	316	338	377
Science and engineering ¹	113	108	151	123	135	193	156	166	171	186
Engineering	4	8	7	12	9	11	6	13	8	17
Chemical	0	0	3	2	0	3	1	3	0	3
Civil	3	1	0	0	2	3	1	1	0	4
Electrical	0	1	3	2	2	1	1	1	3	3
Mechanical	1	0	0	3	1	1	1	0	1	0
Other engineering	0	6	1	5	4	3	2	8	4	7
Sciences ¹	109	100	144	111	126	182	150	153	163	169
Agricultural sciences	7	4	2	6	9	6	6	6	1	4
Biological sciences	35	27	36	25	34	37	50	30	45	47
Computer sciences	0	2	6	2	0	2	2	4	2	2
Earth, atmospheric, and ocean sciences	2	4	4	2	2	2	2	4	2	9
Mathematics	2	1	0	4	1	3	2	2	3	2
Physical sciences	10	8	5	11	3	8	12	16	12	7
Astronomy	0	0	1	1	0	0	1	1	0	0
Chemistry	7	4	2	8	1	8	8	12	11	4
Physics	3	4	2	2	2	0	3	3	1	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	37	33	67	42	58	90	53	57	57	46
Social sciences ¹	16	21	24	19	19	34	23	34	41	52
Non-S&E ¹	118	134	130	146	125	171	138	150	167	191
Education	50	66	55	65	58	78	65	56	74	89
Health	11	5	13	10	7	14	9	13	12	18
Humanities ¹	48	53	51	62	52	68	50	69	69	76
Professional/other/unknown	9	10	11	9	8	11	14	12	12	8
White										
Grand total, all fields	11,027	11,170	11,446	10,963	11,388	11,216	11,401	11,001	10,595	10,696
Science and engineering ¹	5,154	5,214	5,349	5,266	5,493	5,457	5,511	5,283	5,038	5,117

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	305	321	348	332	307	351	334	318	276	300
Chemical	48	60	69	52	52	50	67	59	52	50
Civil	46	34	31	40	45	47	34	51	41	58
Electrical	54	67	66	54	53	44	55	34	30	24
Mechanical	26	25	39	33	37	45	33	27	20	27
Other engineering	131	135	143	153	120	165	145	147	133	141
Sciences ¹	4,849	4,893	5,001	4,934	5,186	5,106	5,177	4,965	4,762	4,817
Agricultural sciences	120	104	135	118	140	125	136	135	125	127
Biological sciences	1,347	1,345	1,399	1,398	1,436	1,402	1,510	1,487	1,392	1,447
Computer sciences	75	103	61	66	84	71	62	60	59	64
Earth, atmospheric, and ocean sciences	123	108	109	129	140	127	141	140	160	149
Mathematics	118	126	105	135	150	159	126	120	111	110
Physical sciences	408	447	430	412	449	396	419	395	419	426
Astronomy	19	19	30	22	24	23	26	27	18	25
Chemistry	307	351	308	305	344	293	323	297	323	315
Physics	80	74	90	80	74	75	65	68	72	82
Other physical sciences	2	3	2	5	7	5	5	3	6	4
Psychology	1,701	1,742	1,835	1,690	1,763	1,789	1,725	1,628	1,480	1,542
Social sciences ¹	957	918	927	986	1,024	1,037	1,058	1,000	1,016	952
Non-S&E ¹	5,873	5,956	6,097	5,697	5,895	5,759	5,890	5,718	5,557	5,579
Education	3,075	2,993	3,110	2,836	2,822	2,903	2,837	2,707	2,672	2,767
Health	609	600	610	609	695	580	690	651	682	696
Humanities ¹	1,553	1,697	1,748	1,677	1,749	1,712	1,805	1,804	1,648	1,622
Professional/other/unknown	636	666	629	575	629	564	558	556	555	494

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	27,149	27,742	27,775	28,151	28,456	27,984	27,978	27,031	25,997	26,413
Science and engineering ¹	15,166	15,487	15,638	16,112	16,237	15,912	15,705	15,060	14,342	14,571
Engineering	2,215	2,386	2,596	2,739	2,565	2,485	2,221	2,140	1,892	1,898
Chemical	293	291	318	321	328	333	339	329	302	272
Civil	203	206	212	249	246	261	221	222	210	239
Electrical	634	683	708	753	638	639	532	465	424	403
Mechanical	359	383	436	456	433	398	341	385	285	287
Other engineering	726	823	922	960	920	854	788	739	671	697
Sciences ¹	12,951	13,101	13,042	13,373	13,672	13,427	13,484	12,920	12,450	12,673
Agricultural sciences	519	492	472	467	464	443	447	403	390	443
Biological sciences	3,422	3,494	3,546	3,670	3,756	3,660	3,904	3,899	3,796	3,782
Computer sciences	426	484	422	430	476	420	388	367	355	384
Earth, atmospheric, and ocean sciences	507	478	462	537	500	475	475	430	458	474
Mathematics	504	554	490	530	576	539	518	469	411	470
Physical sciences	2,198	2,137	2,078	2,131	2,141	2,035	1,890	1,861	1,778	1,815
Astronomy	103	120	137	151	132	111	127	119	104	125
Chemistry	1,291	1,238	1,170	1,234	1,288	1,256	1,119	1,127	1,136	1,169
Physics	789	764	762	731	705	657	625	602	527	500
Other physical sciences	15	15	9	15	16	11	19	13	11	21
Psychology	3,052	3,083	3,129	3,036	3,181	3,222	3,156	2,958	2,723	2,776
Social sciences ¹	2,323	2,379	2,443	2,572	2,578	2,633	2,706	2,533	2,539	2,529
Non-S&E ¹	11,983	12,255	12,137	12,039	12,219	12,072	12,273	11,971	11,655	11,842
Education	5,867	5,777	5,879	5,582	5,573	5,636	5,554	5,334	5,283	5,501
Health	961	938	933	959	1,072	972	1,120	1,088	1,123	1,166
Humanities ¹	3,485	3,748	3,728	3,946	4,023	4,008	4,159	4,113	3,910	3,892
Professional/other/unknown	1,670	1,792	1,597	1,552	1,551	1,456	1,440	1,436	1,339	1,283
American Indian/Alaskan Native										
Grand total, all fields	143	148	185	167	189	214	169	149	147	133
Science and engineering ¹	64	68	94	79	96	114	88	72	67	71
Engineering	6	9	14	17	13	12	8	7	7	10
Chemical	1	2	1	4	3	2	1	1	2	1
Civil	0	0	2	2	0	2	1	0	0	1
Electrical	1	1	2	5	3	1	0	1	0	5
Mechanical	0	2	3	6	2	2	3	1	1	0
Other engineering	4	4	6	0	5	5	3	4	4	3
Sciences ¹	58	59	80	62	83	102	80	65	60	61
Agricultural sciences	1	2	6	5	9	1	4	0	2	4
Biological sciences	16	15	20	7	12	20	17	15	12	11
Computer sciences	1	0	4	1	4	1	1	0	1	2
Earth, atmospheric, and ocean sciences	1	0	2	2	3	6	5	0	0	2
Mathematics	2	2	1	1	3	1	2	1	3	2
Physical sciences	6	8	6	10	9	9	9	12	7	2
Astronomy	0	0	0	1	1	1	1	1	0	0
Chemistry	4	6	4	6	7	5	7	11	5	2

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	2	2	2	2	1	3	1	0	2	0
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Psychology	12	14	17	18	31	35	22	17	15	22
Social sciences ¹	19	18	24	18	12	29	20	20	20	16
Non-S&E ¹	79	80	91	88	93	100	81	77	80	62
Education	37	41	60	51	50	58	51	42	46	39
Health	6	9	4	6	4	6	4	6	3	2
Humanities ¹	20	18	18	19	21	21	20	21	20	15
Professional/other/unknown	16	12	9	12	18	15	6	8	11	6
Asian/Pacific Islander										
Grand total, all fields	937	1,129	1,066	1,296	1,155	1,304	1,363	1,440	1,439	1,417
Science and engineering ¹	728	884	821	1,000	869	988	991	1,066	1,078	1,030
Engineering	200	254	271	290	243	263	240	262	250	206
Chemical	27	27	27	17	36	32	43	37	49	37
Civil	7	15	17	13	16	20	18	15	14	10
Electrical	96	92	109	128	86	92	79	79	81	76
Mechanical	28	37	40	50	35	42	39	49	32	26
Other engineering	42	83	78	82	70	77	61	82	74	57
Sciences ¹	528	630	550	710	626	725	751	804	828	824
Agricultural sciences	14	10	12	16	6	21	13	7	9	7
Biological sciences	193	225	233	255	249	288	318	369	392	389
Computer sciences	32	42	37	42	39	43	41	34	50	45
Earth, atmospheric, and ocean sciences	7	8	8	16	7	15	9	15	11	10
Mathematics	18	24	23	33	25	29	44	30	20	38
Physical sciences	120	146	105	151	117	123	102	125	126	112
Astronomy	4	4	5	6	6	2	8	6	10	8
Chemistry	69	90	55	82	71	88	49	73	78	65
Physics	46	52	45	63	40	33	44	46	38	38
Other physical sciences	1	0	0	0	0	0	1	0	0	1
Psychology	80	83	75	101	92	110	121	108	113	110
Social sciences ¹	64	92	57	96	91	96	103	116	107	113
Non-S&E ¹	209	245	245	296	286	316	372	374	361	387
Education	80	84	87	100	99	100	124	110	113	120
Health	35	22	37	42	32	45	55	73	59	74
Humanities ¹	57	84	78	104	101	112	124	123	141	132
Professional/other/unknown	37	55	43	50	54	59	69	68	48	61
Black										
Grand total, all fields	1,099	1,293	1,305	1,335	1,485	1,629	1,629	1,614	1,662	1,708
Science and engineering ¹	389	461	487	530	574	637	646	631	634	612
Engineering	43	53	59	83	73	85	74	82	76	69
Chemical	6	2	10	12	3	9	8	16	10	8
Civil	8	7	6	9	7	5	5	7	10	6
Electrical	14	20	17	27	22	26	19	20	15	19

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	4	7	9	10	12	10	17	17	16	9
Other engineering	11	17	17	25	29	35	25	22	25	27
Sciences ¹	346	408	428	447	501	552	572	549	558	543
Agricultural sciences	10	9	14	14	8	16	8	9	8	12
Biological sciences	66	90	82	101	101	109	110	124	114	100
Computer sciences	7	9	12	4	12	16	13	13	17	17
Earth, atmospheric, and ocean sciences	3	2	3	4	7	11	7	5	5	15
Mathematics	9	4	8	6	12	10	14	17	13	14
Physical sciences	33	36	45	45	51	54	52	46	62	50
Astronomy	0	1	0	2	1	2	1	1	1	1
Chemistry	23	27	34	31	40	46	36	36	41	35
Physics	9	8	11	12	10	6	15	9	20	12
Other physical sciences	1	0	0	0	0	0	0	0	0	2
Psychology	112	143	144	142	152	168	184	169	163	162
Social sciences ¹	106	115	120	131	158	168	184	166	176	173
Non-S&E ¹	710	832	818	805	911	992	983	983	1,028	1,096
Education	486	579	580	527	628	661	674	649	676	743
Health	41	55	42	51	60	51	67	60	67	75
Humanities ¹	94	97	105	125	131	150	145	158	153	142
Professional/other/unknown	89	101	91	102	92	130	97	116	132	136
Hispanic, total ²										
Grand total, all fields	884	922	957	1,063	1,205	1,184	1,180	1,127	1,237	1,270
Science and engineering ¹	463	488	534	574	683	646	650	584	653	654
Engineering	49	61	87	82	100	71	69	73	87	90
Chemical	5	12	15	6	10	5	13	5	16	14
Civil	7	7	2	10	15	11	8	8	7	11
Electrical	16	14	27	23	27	28	19	15	28	21
Mechanical	7	5	11	13	19	8	10	17	10	12
Other engineering	14	23	32	30	29	19	19	28	26	32
Sciences ¹	414	427	447	492	583	575	581	511	566	564
Agricultural sciences	16	10	9	14	25	10	17	15	17	16
Biological sciences	111	104	109	131	150	155	154	149	161	157
Computer sciences	5	6	12	15	13	12	11	6	13	8
Earth, atmospheric, and ocean sciences	7	7	13	16	15	19	18	11	14	13
Mathematics	12	12	9	17	25	12	13	14	11	14
Physical sciences	75	61	51	58	49	56	72	61	56	61
Astronomy	2	3	1	3	2	1	1	7	3	3
Chemistry	49	38	32	36	34	41	49	39	35	38
Physics	24	20	18	19	13	14	21	15	18	20
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	128	138	167	161	197	205	203	160	180	161
Social sciences ¹	60	89	77	80	109	106	93	95	114	134
Non-S&E ¹	421	434	423	489	522	538	530	543	584	616
Education	226	235	205	247	285	289	274	267	306	327

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	20	29	31	29	37	39	33	24	29	38
Humanities ¹	129	123	138	173	156	160	176	194	205	202
Professional/other/unknown	46	47	49	40	44	50	47	58	44	49
Puerto Rican										
Grand total, all fields	257	269	252	313	308	335	326	303	345	259
Science and engineering ¹	131	137	142	171	173	184	183	155	196	148
Engineering	10	13	22	23	17	23	20	13	26	19
Chemical	2	4	4	1	3	2	5	2	8	4
Civil	1	1	1	5	1	2	2	2	1	4
Electrical	3	3	4	4	3	11	6	2	7	4
Mechanical	1	1	3	6	5	2	2	1	3	2
Other engineering	3	4	10	7	5	6	5	6	7	5
Sciences ¹	121	124	120	148	156	161	163	142	170	129
Agricultural sciences	5	3	4	4	3	1	6	4	8	3
Biological sciences	28	30	32	36	43	47	33	48	56	35
Computer sciences	4	0	5	6	2	6	4	1	4	2
Earth, atmospheric, and ocean sciences	0	2	3	6	5	5	5	3	4	4
Mathematics	1	1	3	4	7	2	2	2	3	3
Physical sciences	26	21	12	20	11	22	20	14	20	17
Astronomy	0	1	0	0	1	0	0	0	1	1
Chemistry	19	17	9	13	9	18	19	11	11	14
Physics	7	3	3	7	1	4	1	3	8	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	43	44	48	56	71	57	74	45	50	47
Social sciences ¹	14	23	13	16	14	21	19	25	25	18
Non-S&E ¹										
Education	68	69	52	72	77	90	75	88	79	52
Health	6	12	7	10	7	11	9	5	9	4
Humanities ¹	38	30	38	49	37	31	44	41	51	40
Professional/other/unknown	14	21	13	11	14	19	15	14	10	15
Mexican American										
Grand total, all fields	290	276	282	297	409	339	400	379	400	437
Science and engineering ¹	134	139	142	154	213	155	206	169	185	200
Engineering	14	14	26	18	28	11	26	17	16	14
Chemical	1	3	4	3	1	0	4	0	3	2
Civil	1	3	0	2	5	3	4	1	1	0
Electrical	4	3	9	5	6	3	4	8	4	3
Mechanical	2	1	4	2	3	1	6	4	3	2
Other engineering	6	4	9	6	13	4	8	4	5	7
Sciences ¹	120	125	116	136	185	144	180	152	169	186
Agricultural sciences	5	3	2	2	9	3	5	3	5	7
Biological sciences	29	25	28	40	49	39	44	47	52	50
Computer sciences	0	3	1	2	3	0	3	2	3	3
Earth, atmospheric, and ocean sciences	4	3	5	3	5	5	5	3	6	0

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	4	5	2	3	6	7	8	6	2	4
Physical sciences	20	13	20	14	21	15	22	15	16	24
Astronomy	1	1	1	0	1	0	0	3	1	0
Chemistry	16	8	14	9	15	9	17	6	7	19
Physics	3	4	5	5	5	6	5	6	8	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	38	47	38	49	51	40	60	48	51	48
Social sciences ¹	20	26	20	23	41	35	33	28	34	50
Non-S&E ¹	156	137	140	143	196	184	194	210	215	237
Education	100	91	78	89	116	103	113	116	137	149
Health	3	8	6	7	15	14	11	7	7	13
Humanities ¹	39	33	39	37	54	49	57	65	60	58
Professional/other/unknown	14	5	17	10	11	18	13	22	11	17
Other Hispanic										
Grand total, all fields	337	377	423	453	488	510	454	445	492	574
Science and engineering ¹	198	212	250	249	297	307	261	260	272	306
Engineering	25	34	39	41	55	37	23	43	45	57
Chemical	2	5	7	2	6	3	4	3	5	8
Civil	5	3	1	3	9	6	2	5	5	7
Electrical	9	8	14	14	18	14	9	5	17	14
Mechanical	4	3	4	5	11	5	2	12	4	8
Other engineering	5	15	13	17	11	9	6	18	14	20
Sciences ¹	173	178	211	208	242	270	238	217	227	249
Agricultural sciences	6	4	3	8	13	6	6	8	4	6
Biological sciences	54	49	49	55	58	69	77	54	53	72
Computer sciences	1	3	6	7	8	6	4	3	6	3
Earth, atmospheric, and ocean sciences	3	2	5	7	5	9	8	5	4	9
Mathematics	7	6	4	10	12	3	3	6	6	7
Physical sciences	29	27	19	24	17	19	30	32	20	20
Astronomy	1	1	0	3	0	1	1	4	1	2
Chemistry	14	13	9	14	10	14	13	22	17	5
Physics	14	13	10	7	7	4	15	6	2	13
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	47	47	81	56	75	108	69	67	79	66
Social sciences ¹	26	40	44	41	54	50	41	42	55	66
Non-S&E ¹	139	165	173	204	191	203	193	185	220	268
Education	58	75	75	86	92	96	86	63	90	126
Health	11	9	18	12	15	14	13	12	13	21
Humanities ¹	52	60	61	87	65	80	75	88	94	104
Professional/other/unknown	18	21	19	19	19	13	19	22	23	17
White										
Grand total, all fields	23,795	23,891	23,847	23,181	23,454	23,092	22,968	21,930	20,755	20,818
Science and engineering ¹	13,350	13,360	13,449	13,293	13,447	13,193	12,921	12,251	11,487	11,575

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	1,887	1,958	2,126	2,151	2,037	1,989	1,764	1,644	1,394	1,453
Chemical	246	242	261	269	262	279	268	259	214	203
Civil	181	175	184	206	197	219	181	176	170	203
Electrical	503	540	542	529	485	472	397	337	280	263
Mechanical	316	320	369	361	348	322	262	291	212	228
Other engineering	641	681	770	786	745	697	656	581	518	556
Sciences ¹	11,463	11,402	11,323	11,142	11,410	11,204	11,157	10,607	10,093	10,122
Agricultural sciences	471	456	422	397	402	385	396	361	347	388
Biological sciences	3,003	3,020	3,050	3,069	3,139	3,017	3,196	3,139	3,026	2,970
Computer sciences	375	416	342	341	383	336	310	300	266	291
Earth, atmospheric, and ocean sciences	486	452	430	476	451	412	417	385	412	415
Mathematics	455	507	440	449	491	474	437	396	352	379
Physical sciences	1,943	1,847	1,823	1,794	1,835	1,750	1,611	1,557	1,477	1,495
Astronomy	94	109	127	129	113	104	111	99	86	99
Chemistry	1,139	1,065	1,027	1,040	1,095	1,054	952	936	952	972
Physics	697	660	660	611	612	582	531	509	428	407
Other physical sciences	13	13	9	14	15	10	17	13	11	17
Psychology	2,693	2,674	2,701	2,481	2,593	2,667	2,570	2,416	2,188	2,215
Social sciences ¹	2,037	2,030	2,115	2,135	2,116	2,163	2,220	2,053	2,025	1,969
Non-S&E ¹	10,445	10,531	10,398	9,888	10,007	9,899	10,047	9,679	9,268	9,243
Education	4,986	4,796	4,879	4,414	4,349	4,438	4,328	4,160	3,998	4,091
Health	846	806	805	813	906	816	941	899	944	935
Humanities ¹	3,142	3,367	3,329	3,366	3,460	3,467	3,581	3,472	3,259	3,228
Professional/other/unknown	1,471	1,562	1,385	1,295	1,292	1,178	1,197	1,148	1,067	989

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	14,733	14,965	14,720	15,047	14,872	14,513	14,155	13,636	12,849	13,042
Science and engineering ¹	9,463	9,596	9,581	9,884	9,736	9,442	9,081	8,683	8,146	8,276
Engineering	1,872	2,012	2,178	2,324	2,189	2,059	1,801	1,730	1,526	1,528
Chemical	236	221	235	260	263	268	248	247	229	204
Civil	155	170	175	204	196	207	179	163	161	176
Electrical	570	604	625	679	572	577	463	422	379	358
Mechanical	327	355	391	409	392	346	294	351	251	256
Other engineering	584	662	752	772	766	661	617	547	506	534
Sciences ¹	7,591	7,584	7,403	7,560	7,547	7,383	7,280	6,953	6,620	6,748
Agricultural sciences	387	380	328	332	310	298	300	252	250	303
Biological sciences	1,930	2,006	1,961	2,031	2,075	2,011	2,097	2,115	2,062	2,021
Computer sciences	349	368	345	347	373	330	315	283	277	306
Earth, atmospheric, and ocean sciences	382	366	348	390	352	338	319	281	283	304
Mathematics	382	422	385	387	405	374	373	332	289	339
Physical sciences	1,745	1,617	1,611	1,658	1,629	1,564	1,408	1,394	1,287	1,314
Astronomy	83	99	106	126	109	87	95	92	82	96
Chemistry	946	829	837	882	895	894	744	762	751	803
Physics	703	676	661	639	616	578	556	529	449	402
Other physical sciences	13	13	7	11	9	5	13	11	5	13
Psychology	1,143	1,092	1,022	987	1,026	1,042	1,022	960	890	870
Social sciences ¹	1,273	1,333	1,403	1,428	1,377	1,426	1,446	1,336	1,282	1,291
Non-S&E ¹	5,270	5,369	5,139	5,163	5,136	5,071	5,074	4,953	4,703	4,766
Education	2,200	2,149	2,154	1,976	1,979	1,946	1,882	1,836	1,759	1,807
Health	283	263	248	254	273	285	309	312	314	329
Humanities ¹	1,835	1,938	1,855	2,065	2,072	2,065	2,116	2,050	1,982	1,983
Professional/other/unknown	952	1,019	882	868	812	775	767	755	648	647
American Indian/Alaskan Native										
Grand total, all fields	71	80	101	79	104	96	76	67	67	52
Science and engineering ¹	40	42	60	45	54	59	43	40	35	34
Engineering	4	9	12	14	9	10	4	5	7	9
Chemical	1	2	1	3	0	1	0	1	2	0
Civil	0	0	1	1	0	1	0	0	0	1
Electrical	1	1	1	5	3	1	0	1	0	5
Mechanical	0	2	3	5	2	2	2	1	1	0
Other engineering	2	4	6	0	4	5	2	2	4	3
Sciences ¹	36	33	48	31	45	49	39	35	28	25
Agricultural sciences	1	2	2	5	7	1	3	0	2	3
Biological sciences	11	10	11	4	6	10	10	8	6	3
Computer sciences	0	0	2	0	4	0	1	0	1	2
Earth, atmospheric, and ocean sciences	1	0	2	1	2	3	4	0	0	1
Mathematics	2	1	1	1	1	1	1	0	2	1
Physical sciences	5	5	5	10	8	6	7	10	7	1
Astronomy	0	0	0	1	1	0	0	1	0	0
Chemistry	4	3	3	6	6	3	6	9	5	1

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	1	2	2	2	1	3	1	0	2	0
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Psychology	5	6	8	6	13	12	3	5	7	8
Social sciences ¹	11	9	17	4	4	16	10	12	3	6
Non-S&E ¹	31	38	41	34	50	37	33	27	32	18
Education	10	17	22	18	26	19	17	12	16	8
Health	1	2	1	2	1	0	1	2	0	1
Humanities ¹	12	10	10	8	14	11	11	9	12	7
Professional/other/unknown	8	9	8	6	9	7	4	4	4	2
Asian/Pacific Islander										
Grand total, all fields	582	662	603	742	641	764	740	773	784	767
Science and engineering ¹	487	566	505	633	523	629	598	623	646	619
Engineering	169	202	220	244	192	222	184	206	200	161
Chemical	20	16	17	14	27	23	29	24	37	29
Civil	7	13	11	10	13	19	12	10	11	8
Electrical	85	80	95	112	68	80	65	69	70	60
Mechanical	23	33	36	42	29	37	30	44	25	20
Other engineering	34	60	61	66	55	63	48	59	57	44
Sciences ¹	318	364	285	389	331	407	414	417	446	458
Agricultural sciences	12	5	6	11	5	10	10	2	6	5
Biological sciences	114	125	108	132	131	166	172	199	204	220
Computer sciences	28	34	28	31	29	34	33	24	37	38
Earth, atmospheric, and ocean sciences	6	7	5	12	4	11	5	11	3	6
Mathematics	14	18	15	27	12	23	34	22	15	21
Physical sciences	87	98	72	106	84	82	64	83	93	70
Astronomy	4	3	3	6	5	2	6	6	9	5
Chemistry	43	51	32	51	49	53	22	38	52	39
Physics	39	44	37	49	30	27	36	39	32	26
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Psychology	20	30	20	21	23	31	39	24	40	40
Social sciences ¹	37	47	31	49	43	50	57	52	48	58
Non-S&E ¹	95	96	98	109	118	135	142	150	138	148
Education	27	27	29	25	36	41	42	32	37	35
Health	15	7	16	15	14	16	18	23	12	29
Humanities ¹	28	28	26	41	37	41	44	53	63	48
Professional/other/unknown	25	34	27	28	31	37	38	42	26	36
Black										
Grand total, all fields	410	487	531	528	524	609	560	591	611	596
Science and engineering ¹	190	216	251	261	238	294	270	273	279	253
Engineering	30	40	40	61	52	62	50	57	50	52
Chemical	2	1	5	6	2	5	3	6	5	6
Civil	6	4	5	9	5	3	4	7	6	4
Electrical	11	16	12	24	18	21	17	19	11	16

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	3	7	6	9	12	9	12	16	12	8
Other engineering	8	12	12	13	15	24	14	9	16	18
Sciences ¹	160	176	211	200	186	232	220	216	229	201
Agricultural sciences	7	4	14	9	7	10	3	4	3	7
Biological sciences	23	51	46	44	34	47	40	43	51	38
Computer sciences	5	5	9	3	4	8	8	3	10	12
Earth, atmospheric, and ocean sciences	2	2	1	3	5	6	3	3	5	9
Mathematics	6	3	6	4	5	4	7	10	5	10
Physical sciences	21	19	33	35	25	30	34	27	35	31
Astronomy	0	1	0	1	1	0	0	1	0	1
Chemistry	15	11	24	23	17	27	20	18	19	23
Physics	5	7	9	11	7	3	14	8	16	7
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Psychology	40	37	38	37	38	36	42	48	39	39
Social sciences ¹	56	55	64	65	68	91	83	78	81	55
Non-S&E ¹	220	271	280	267	286	315	290	318	332	343
Education	132	176	184	155	176	185	175	196	200	223
Health	11	14	10	12	11	8	11	9	12	15
Humanities ¹	42	43	47	55	62	61	61	61	67	54
Professional/other/unknown	35	38	39	45	37	61	43	52	53	51
Hispanic, total ²										
Grand total, all fields	438	463	480	543	610	510	546	498	540	590
Science and engineering ¹	262	284	297	338	381	316	337	286	312	332
Engineering	44	51	73	61	87	49	59	55	64	72
Chemical	5	10	10	4	10	2	10	1	9	11
Civil	5	6	2	9	12	5	7	6	7	7
Electrical	16	13	23	17	25	24	19	13	25	18
Mechanical	6	5	11	10	18	7	9	17	5	11
Other engineering	12	17	27	21	22	11	14	18	18	25
Sciences ¹	218	233	224	277	294	267	278	231	248	260
Agricultural sciences	9	9	6	11	16	6	10	8	10	11
Biological sciences	61	68	58	74	79	86	73	77	62	89
Computer sciences	5	2	7	13	12	9	9	3	11	5
Earth, atmospheric, and ocean sciences	5	4	9	11	10	15	15	5	13	6
Mathematics	9	9	9	12	18	9	7	9	8	9
Physical sciences	58	42	42	46	39	35	50	41	37	42
Astronomy	2	1	1	2	2	1	1	6	2	2
Chemistry	36	24	26	26	25	21	29	24	19	23
Physics	20	17	15	18	12	13	19	11	16	17
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	42	44	51	60	54	53	58	41	54	48
Social sciences ¹	29	55	42	50	66	54	56	47	53	50
Non-S&E ¹	176	179	183	205	229	194	209	212	228	258
Education	76	82	83	85	109	89	97	88	98	115

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	3	15	11	7	12	11	10	5	8	9
Humanities ¹	67	60	65	90	83	75	82	86	101	112
Professional/other/unknown	30	22	24	23	25	19	20	33	21	22
Puerto Rican										
Grand total, all fields	123	120	114	153	128	141	128	122	149	126
Science and engineering ¹	72	74	74	98	69	88	77	68	92	75
Engineering	10	11	17	19	16	15	16	9	15	17
Chemical	2	3	2	1	3	1	3	0	3	4
Civil	1	1	1	5	1	1	2	2	1	3
Electrical	3	3	4	3	3	9	6	2	6	4
Mechanical	1	1	3	6	5	2	2	1	1	1
Other engineering	3	3	7	4	4	2	3	4	4	5
Sciences ¹	62	63	57	79	53	73	61	59	77	58
Agricultural sciences	2	3	3	3	2	0	3	2	5	0
Biological sciences	14	21	14	20	20	24	11	18	18	21
Computer sciences	4	0	4	6	1	5	4	1	4	2
Earth, atmospheric, and ocean sciences	0	1	3	4	2	4	5	1	4	4
Mathematics	1	0	3	3	4	2	1	2	3	1
Physical sciences	19	12	8	18	6	13	10	10	16	11
Astronomy	0	0	0	0	1	0	0	0	1	0
Chemistry	13	9	6	11	4	9	9	8	7	9
Physics	6	3	2	7	1	4	1	2	8	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	13	13	15	20	12	16	14	9	14	10
Social sciences ¹	9	13	7	5	6	9	13	16	13	9
Non-S&E ¹										
Education	23	19	17	21	28	24	24	26	26	17
Health	2	7	2	3	3	5	3	2	2	0
Humanities ¹	16	14	16	26	20	14	19	18	26	29
Professional/other/unknown	10	6	5	5	8	10	5	8	3	5
Mexican American										
Grand total, all fields	150	148	159	155	211	153	196	189	172	196
Science and engineering ¹	80	80	89	87	130	83	120	96	82	100
Engineering	12	13	23	11	25	7	23	13	10	10
Chemical	1	2	3	2	1	0	3	0	1	1
Civil	1	3	0	1	4	1	4	0	1	0
Electrical	4	3	8	2	6	2	4	6	4	2
Mechanical	2	1	4	2	3	1	6	4	1	2
Other engineering	4	4	8	4	11	3	6	3	3	5
Sciences ¹	68	67	66	76	105	76	97	83	72	90
Agricultural sciences	4	2	1	2	6	3	3	2	2	6
Biological sciences	16	16	16	20	29	23	25	30	21	32
Computer sciences	0	1	1	2	3	0	2	2	3	1
Earth, atmospheric, and ocean sciences	4	2	3	2	4	4	4	2	5	0

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	3	3	2	2	3	5	4	3	1	2
Physical sciences	17	9	17	12	18	10	19	13	10	14
Astronomy	1	0	1	0	1	0	0	3	0	0
Chemistry	14	6	12	7	12	5	14	4	4	10
Physics	2	3	4	5	5	5	5	6	6	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	17	14	18	20	18	14	22	17	15	16
Social sciences ¹	7	20	8	16	24	17	18	14	15	19
Non-S&E ¹	70	68	70	68	81	70	76	93	90	96
Education	37	40	37	41	45	35	45	50	49	56
Health	0	3	2	0	1	3	2	2	3	2
Humanities ¹	22	21	21	21	30	27	22	28	32	32
Professional/other/unknown	11	4	10	6	5	5	7	13	6	6
Other Hispanic										
Grand total, all fields	165	195	207	235	271	216	222	187	219	268
Science and engineering ¹	110	130	134	153	182	145	140	122	138	157
Engineering	22	27	33	31	46	27	20	33	39	45
Chemical	2	5	5	1	6	1	4	1	5	6
Civil	3	2	1	3	7	3	1	4	5	4
Electrical	9	7	11	12	16	13	9	5	15	12
Mechanical	3	3	4	2	10	4	1	12	3	8
Other engineering	5	10	12	13	7	6	5	11	11	15
Sciences ¹	88	103	101	122	136	118	120	89	99	112
Agricultural sciences	3	4	2	6	8	3	4	4	3	5
Biological sciences	31	31	28	34	30	39	37	29	23	36
Computer sciences	1	1	2	5	8	4	3	0	4	2
Earth, atmospheric, and ocean sciences	1	1	3	5	4	7	6	2	4	2
Mathematics	5	6	4	7	11	2	2	4	4	6
Physical sciences	22	21	17	16	15	12	21	18	11	17
Astronomy	1	1	0	2	0	1	1	3	1	2
Chemistry	9	9	8	8	9	7	6	12	8	4
Physics	12	11	9	6	6	4	13	3	2	11
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	12	17	18	20	24	23	22	15	25	22
Social sciences ¹	13	22	27	29	36	28	25	17	25	22
Non-S&E ¹	55	65	73	82	89	71	82	65	81	111
Education	16	23	29	23	36	30	28	12	23	42
Health	1	5	7	4	8	3	5	1	3	7
Humanities ¹	29	25	28	43	33	34	41	40	43	51
Professional/other/unknown	9	12	9	12	12	4	8	12	12	11
White										
Grand total, all fields	13,042	13,037	12,744	12,532	12,423	12,199	11,853	11,288	10,445	10,464
Science and engineering ¹	8,354	8,322	8,290	8,212	8,169	7,918	7,574	7,183	6,614	6,653

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	1,596	1,661	1,801	1,839	1,758	1,657	1,445	1,347	1,138	1,177
Chemical	201	186	198	221	212	233	202	204	166	153
Civil	137	145	155	168	156	175	149	128	132	148
Electrical	453	480	483	483	443	433	346	307	253	243
Mechanical	291	296	332	329	316	278	231	265	194	206
Other engineering	514	554	633	638	631	538	517	443	393	427
Sciences ¹	6,758	6,661	6,489	6,373	6,411	6,261	6,129	5,836	5,476	5,476
Agricultural sciences	353	357	293	282	267	264	266	232	224	266
Biological sciences	1,700	1,721	1,707	1,717	1,756	1,663	1,734	1,724	1,681	1,574
Computer sciences	305	318	286	278	306	269	253	243	212	232
Earth, atmospheric, and ocean sciences	366	346	326	349	317	294	280	250	256	271
Mathematics	344	388	347	325	353	326	318	285	251	280
Physical sciences	1,556	1,422	1,418	1,403	1,404	1,376	1,216	1,186	1,073	1,097
Astronomy	75	91	98	107	91	83	85	74	68	76
Chemistry	843	733	737	748	766	773	644	652	637	675
Physics	627	587	576	538	539	515	475	449	363	333
Other physical sciences	11	11	7	10	8	5	12	11	5	13
Psychology	1,021	965	896	824	865	899	864	815	730	703
Social sciences ¹	1,113	1,144	1,216	1,195	1,143	1,170	1,198	1,101	1,049	1,053
Non-S&E ¹	4,688	4,715	4,454	4,320	4,254	4,281	4,279	4,105	3,831	3,811
Education	1,933	1,830	1,803	1,601	1,568	1,578	1,518	1,473	1,354	1,361
Health	250	221	207	214	223	245	262	266	275	258
Humanities ¹	1,657	1,758	1,675	1,776	1,784	1,826	1,849	1,763	1,673	1,676
Professional/other/unknown	848	906	769	729	679	632	650	603	529	516

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	12,413	12,775	13,055	13,072	13,570	13,471	13,820	13,395	13,147	13,368
Science and engineering ¹	5,703	5,889	6,057	6,215	6,494	6,470	6,623	6,377	6,195	6,294
Engineering	343	374	418	414	375	426	420	410	366	370
Chemical	57	70	83	61	64	65	91	82	73	68
Civil	48	36	37	45	50	54	42	59	49	63
Electrical	64	79	83	74	66	62	69	43	45	45
Mechanical	32	28	45	46	41	52	47	34	34	31
Other engineering	142	161	170	188	154	193	171	192	165	163
Sciences ¹	5,360	5,515	5,639	5,801	6,119	6,044	6,203	5,967	5,829	5,924
Agricultural sciences	132	112	144	134	154	145	147	151	139	140
Biological sciences	1,492	1,487	1,585	1,637	1,681	1,649	1,807	1,784	1,734	1,760
Computer sciences	77	116	77	82	103	90	73	84	78	78
Earth, atmospheric, and ocean sciences	125	112	114	146	148	137	156	149	175	170
Mathematics	122	132	105	143	171	165	145	137	122	131
Physical sciences	453	519	467	472	512	471	482	467	491	501
Astronomy	20	21	31	25	23	24	32	27	22	29
Chemistry	345	409	333	351	393	362	375	365	385	366
Physics	86	87	101	92	89	79	69	73	78	98
Other physical sciences	2	2	2	4	7	6	6	2	6	8
Psychology	1,909	1,991	2,107	2,044	2,150	2,180	2,133	1,998	1,833	1,906
Social sciences ¹	1,050	1,046	1,040	1,143	1,200	1,207	1,260	1,197	1,257	1,238
Non-S&E ¹	6,710	6,886	6,998	6,857	7,076	7,001	7,197	7,018	6,952	7,074
Education	3,665	3,628	3,725	3,597	3,590	3,690	3,671	3,498	3,524	3,692
Health	678	675	685	704	799	687	811	776	809	837
Humanities ¹	1,649	1,810	1,873	1,876	1,950	1,943	2,043	2,063	1,928	1,909
Professional/other/unknown	718	773	715	680	737	681	672	681	691	636
American Indian/Alaskan Native										
Grand total, all fields	72	68	84	88	85	118	93	82	80	81
Science and engineering ¹	24	26	34	34	42	55	45	32	32	37
Engineering	2	0	2	3	4	2	4	2	0	1
Chemical	0	0	0	1	3	1	1	0	0	1
Civil	0	0	1	1	0	1	1	0	0	0
Electrical	0	0	1	0	0	0	0	0	0	0
Mechanical	0	0	0	1	0	0	1	0	0	0
Other engineering	2	0	0	0	1	0	1	2	0	0
Sciences ¹	22	26	32	31	38	53	41	30	32	36
Agricultural sciences	0	0	4	0	2	0	1	0	0	1
Biological sciences	5	5	9	3	6	10	7	7	6	8
Computer sciences	1	0	2	1	0	1	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	1	1	3	1	0	0	1
Mathematics	0	1	0	0	2	0	1	1	1	1
Physical sciences	1	3	1	0	1	3	2	2	0	1
Astronomy	0	0	0	0	0	1	1	0	0	0
Chemistry	0	3	1	0	1	2	1	2	0	1

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Physics	1	0	0	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	7	8	9	12	18	23	19	12	8	14
Social sciences ¹	8	9	7	14	8	13	10	8	17	10
Non-S&E ¹	48	42	50	54	43	63	48	50	48	44
Education	27	24	38	33	24	39	34	30	30	31
Health	5	7	3	4	3	6	3	4	3	1
Humanities ¹	8	8	8	11	7	10	9	12	8	8
Professional/other/unknown	8	3	1	6	9	8	2	4	7	4
Asian/Pacific Islander										
Grand total, all fields	354	467	463	553	513	540	623	667	655	650
Science and engineering ¹	241	318	316	366	346	359	393	443	432	411
Engineering	31	52	51	46	51	41	56	56	50	45
Chemical	7	11	10	3	9	9	14	13	12	8
Civil	0	2	6	3	3	1	6	5	3	2
Electrical	11	12	14	16	18	12	14	10	11	16
Mechanical	5	4	4	8	6	5	9	5	7	6
Other engineering	8	23	17	16	15	14	13	23	17	13
Sciences ¹	210	266	265	320	295	318	337	387	382	366
Agricultural sciences	2	5	6	5	1	11	3	5	3	2
Biological sciences	79	100	125	123	118	122	146	170	188	169
Computer sciences	4	8	9	11	10	9	8	10	13	7
Earth, atmospheric, and ocean sciences	1	1	3	4	3	4	4	4	8	4
Mathematics	4	6	8	6	13	6	10	8	5	17
Physical sciences	33	48	33	44	33	41	38	42	33	42
Astronomy	0	1	2	0	1	0	2	0	1	3
Chemistry	26	39	23	30	22	35	27	35	26	26
Physics	7	8	8	14	10	6	8	7	6	12
Other physical sciences	0	0	0	0	0	0	1	0	0	1
Psychology	60	53	55	80	69	79	82	84	73	70
Social sciences ¹	27	45	26	47	48	46	46	64	59	55
Non-S&E ¹	113	149	147	187	167	181	230	224	223	239
Education	53	57	58	75	62	59	82	78	76	85
Health	20	15	21	27	18	29	37	50	47	45
Humanities ¹	28	56	52	63	64	71	80	70	78	84
Professional/other/unknown	12	21	16	22	23	22	31	26	22	25
Black										
Grand total, all fields	689	806	774	807	961	1,020	1,069	1,023	1,051	1,110
Science and engineering ¹	199	245	236	269	336	343	376	358	355	359
Engineering	13	13	19	22	21	23	24	25	26	17
Chemical	4	1	5	6	1	4	5	10	5	2
Civil	2	3	1	0	2	2	1	0	4	2
Electrical	3	4	5	3	4	5	2	1	4	3

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	1	0	3	1	0	1	5	1	4	1
Other engineering	3	5	5	12	14	11	11	13	9	9
Sciences ¹	186	232	217	247	315	320	352	333	329	342
Agricultural sciences	3	5	0	5	1	6	5	5	5	5
Biological sciences	43	39	36	57	67	62	70	81	63	62
Computer sciences	2	4	3	1	8	8	5	10	7	5
Earth, atmospheric, and ocean sciences	1	0	2	1	2	5	4	2	0	6
Mathematics	3	1	2	2	7	6	7	7	8	4
Physical sciences	12	17	12	10	26	24	18	19	27	19
Astronomy	0	0	0	1	0	2	1	0	1	0
Chemistry	8	16	10	8	23	19	16	18	22	12
Physics	4	1	2	1	3	3	1	1	4	5
Other physical sciences	0	0	0	0	0	0	0	0	0	2
Psychology	72	106	106	105	114	132	142	121	124	123
Social sciences ¹	50	60	56	66	90	77	101	88	95	118
Non-S&E ¹	490	561	538	538	625	677	693	665	696	751
Education	354	403	396	372	452	476	499	453	476	518
Health	30	41	32	39	49	43	56	51	55	60
Humanities ¹	52	54	58	70	69	89	84	97	86	88
Professional/other/unknown	54	63	52	57	55	69	54	64	79	85
Hispanic, total ²										
Grand total, all fields	446	459	477	520	594	674	633	629	697	680
Science and engineering ¹	201	204	237	236	302	330	312	298	341	322
Engineering	5	10	14	21	13	22	10	18	23	18
Chemical	0	2	5	2	0	3	3	4	7	3
Civil	2	1	0	1	3	6	1	2	0	4
Electrical	0	1	4	6	2	4	0	2	3	3
Mechanical	1	0	0	3	1	1	1	0	5	1
Other engineering	2	6	5	9	7	8	5	10	8	7
Sciences ¹	196	194	223	215	289	308	302	280	318	304
Agricultural sciences	7	1	3	3	9	4	7	7	7	5
Biological sciences	50	36	51	57	71	69	81	72	99	68
Computer sciences	0	4	5	2	1	3	2	3	2	3
Earth, atmospheric, and ocean sciences	2	3	4	5	5	4	3	6	1	7
Mathematics	3	3	0	5	7	3	6	5	3	5
Physical sciences	17	19	9	12	10	21	22	20	19	19
Astronomy	0	2	0	1	0	0	0	1	1	1
Chemistry	13	14	6	10	9	20	20	15	16	15
Physics	4	3	3	1	1	1	2	4	2	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	86	94	116	101	143	152	144	119	126	113
Social sciences ¹	31	34	35	30	43	52	37	48	61	84
Non-S&E ¹	245	255	240	284	292	344	321	331	356	358
Education	150	153	122	162	175	200	177	179	208	212

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Health	17	14	20	22	25	28	23	19	21	29
Humanities ¹	62	63	73	83	73	85	94	108	104	90
Professional/other/unknown	16	25	25	17	19	31	27	25	23	27
Puerto Rican										
Grand total, all fields	134	149	138	160	180	194	197	181	196	133
Science and engineering ¹	59	63	68	73	104	96	105	87	104	73
Engineering	0	2	5	4	1	8	4	4	11	2
Chemical	0	1	2	0	0	1	2	2	5	0
Civil	0	0	0	0	0	1	0	0	0	1
Electrical	0	0	0	1	0	2	0	0	1	0
Mechanical	0	0	0	0	0	0	0	0	2	1
Other engineering	0	1	3	3	1	4	2	2	3	0
Sciences ¹	59	61	63	69	103	88	101	83	93	71
Agricultural sciences	3	0	1	1	1	1	3	2	3	3
Biological sciences	14	9	18	16	23	23	22	30	38	14
Computer sciences	0	0	1	0	1	1	0	0	0	0
Earth, atmospheric, and ocean sciences	0	1	0	2	3	1	0	2	0	0
Mathematics	0	1	0	1	3	0	1	0	0	2
Physical sciences	7	9	4	2	5	9	10	4	4	6
Astronomy	0	1	0	0	0	0	0	0	0	1
Chemistry	6	8	3	2	5	9	10	3	4	5
Physics	1	0	1	0	0	0	0	1	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	30	31	33	36	59	41	59	36	36	37
Social sciences ¹	5	10	6	11	8	12	6	9	12	9
Non-S&E ¹	75	86	70	87	76	98	92	94	92	60
Education	45	50	35	51	49	66	51	62	53	35
Health	4	5	5	7	4	6	6	3	7	4
Humanities ¹	22	16	22	23	17	17	25	23	25	11
Professional/other/unknown	4	15	8	6	6	9	10	6	7	10
Mexican American										
Grand total, all fields	140	128	123	142	198	186	204	190	228	241
Science and engineering ¹	54	59	53	67	83	72	86	73	103	100
Engineering	2	1	3	7	3	4	3	4	6	4
Chemical	0	1	1	1	0	0	1	0	2	1
Civil	0	0	0	1	1	2	0	1	0	0
Electrical	0	0	1	3	0	1	0	2	0	1
Mechanical	0	0	0	0	0	0	0	0	2	0
Other engineering	2	0	1	2	2	1	2	1	2	2
Sciences ¹	52	58	50	60	80	68	83	69	97	96
Agricultural sciences	1	1	1	0	3	0	2	1	3	1
Biological sciences	13	9	12	20	20	16	19	17	31	18
Computer sciences	0	2	0	0	0	0	1	0	0	2
Earth, atmospheric, and ocean sciences	0	1	2	1	1	1	1	1	1	0

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	1	2	0	1	3	2	4	3	1	2
Physical sciences	3	4	3	2	3	5	3	2	6	10
Astronomy	0	1	0	0	0	0	0	0	1	0
Chemistry	2	2	2	2	3	4	3	2	3	9
Physics	1	1	1	0	0	1	0	0	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	21	33	20	29	33	26	38	31	36	32
Social sciences ¹	13	6	12	7	17	18	15	14	19	31
Non-S&E ¹	86	69	70	75	115	114	118	117	125	141
Education	63	51	41	48	71	68	68	66	88	93
Health	3	5	4	7	14	11	9	5	4	11
Humanities ¹	17	12	18	16	24	22	35	37	28	26
Professional/other/unknown	3	1	7	4	6	13	6	9	5	11
Other Hispanic										
Grand total, all fields	172	182	216	218	216	294	232	258	273	306
Science and engineering ¹	88	82	116	96	115	162	121	138	134	149
Engineering	3	7	6	10	9	10	3	10	6	12
Chemical	0	0	2	1	0	2	0	2	0	2
Civil	2	1	0	0	2	3	1	1	0	3
Electrical	0	1	3	2	2	1	0	0	2	2
Mechanical	1	0	0	3	1	1	1	0	1	0
Other engineering	0	5	1	4	4	3	1	7	3	5
Sciences ¹	85	75	110	86	106	152	118	128	128	137
Agricultural sciences	3	0	1	2	5	3	2	4	1	1
Biological sciences	23	18	21	21	28	30	40	25	30	36
Computer sciences	0	2	4	2	0	2	1	3	2	1
Earth, atmospheric, and ocean sciences	2	1	2	2	1	2	2	3	0	7
Mathematics	2	0	0	3	1	1	1	2	2	1
Physical sciences	7	6	2	8	2	7	9	14	9	3
Astronomy	0	0	0	1	0	0	0	1	0	0
Chemistry	5	4	1	6	1	7	7	10	9	1
Physics	2	2	1	1	1	0	2	3	0	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	35	30	63	36	51	85	47	52	54	44
Social sciences ¹	13	18	17	12	18	22	16	25	30	44
Non-S&E ¹	84	100	100	122	101	132	111	120	139	157
Education	42	52	46	63	55	66	58	51	67	84
Health	10	4	11	8	7	11	8	11	10	14
Humanities ¹	23	35	33	44	32	46	34	48	51	53
Professional/other/unknown	9	9	10	7	7	9	11	10	11	6
White										
Grand total, all fields	10,751	10,854	11,103	10,647	11,030	10,893	11,115	10,642	10,309	10,354
Science and engineering ¹	4,996	5,038	5,159	5,080	5,278	5,275	5,347	5,068	4,872	4,922

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	291	297	325	312	279	332	319	297	256	276
Chemical	45	56	63	48	50	46	66	55	48	50
Civil	44	30	29	38	41	44	32	48	38	55
Electrical	50	60	59	46	42	39	51	30	27	20
Mechanical	25	24	37	32	32	44	31	26	18	22
Other engineering	127	127	137	148	114	159	139	138	125	129
Sciences ¹	4,705	4,741	4,834	4,768	4,999	4,943	5,028	4,771	4,616	4,646
Agricultural sciences	118	99	129	115	135	121	130	129	122	122
Biological sciences	1,303	1,299	1,343	1,352	1,383	1,354	1,462	1,415	1,345	1,396
Computer sciences	70	98	56	63	77	67	57	57	54	59
Earth, atmospheric, and ocean sciences	120	106	104	126	134	118	137	135	156	144
Mathematics	111	119	93	124	138	148	119	111	101	99
Physical sciences	387	425	405	391	431	374	395	371	404	398
Astronomy	19	18	29	22	22	21	26	25	18	23
Chemistry	296	332	290	292	329	281	308	284	315	297
Physics	70	73	84	73	73	67	56	60	65	74
Other physical sciences	2	2	2	4	7	5	5	2	6	4
Psychology	1,672	1,709	1,805	1,657	1,728	1,768	1,706	1,601	1,458	1,512
Social sciences ¹	924	886	899	940	973	993	1,022	952	976	916
Non-S&E ¹	5,755	5,816	5,944	5,567	5,752	5,618	5,768	5,574	5,437	5,432
Education	3,051	2,966	3,076	2,813	2,781	2,860	2,810	2,687	2,644	2,730
Health	596	585	598	599	683	571	679	633	669	677
Humanities ¹	1,485	1,609	1,654	1,590	1,675	1,641	1,732	1,709	1,586	1,552
Professional/other/unknown	623	656	616	565	613	546	547	545	538	473

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all visa types	10,556	10,516	10,844	9,790	9,795	8,891	9,069	9,237	8,854	9,486
North America	548	508	538	498	576	557	614	599	575	637
Canada	275	274	278	263	288	289	294	307	314	325
Caribbean	61	61	51	49	65	54	54	40	44	44
Central America	70	43	47	38	44	42	57	45	35	49
Mexico	142	130	162	148	179	172	209	207	182	219
South America	409	361	462	414	436	444	447	416	413	459
Argentina	56	50	68	69	71	56	78	69	66	75
Brazil	158	137	207	151	164	164	131	143	126	107
Chile	42	38	37	31	26	33	42	25	40	66
Colombia	48	45	42	40	32	52	56	59	55	83
South America, other	105	91	108	123	143	139	140	120	126	128
Europe	1,154	1,257	1,269	1,314	1,532	1,486	1,507	1,651	1,552	1,606
Belgium	21	32	25	18	17	21	21	24	16	23
England, United Kingdom	128	132	117	92	124	142	100	138	134	110
France	96	82	69	74	77	79	83	85	92	87
Germany	197	208	170	181	210	183	229	220	197	189
Europe, other	712	803	888	949	1,104	1,061	1,074	1,184	1,113	1,197
East Asia	5,520	5,519	5,679	4,810	4,703	4,163	4,299	4,352	4,287	4,553
China, People's Republic of	2,561	2,781	3,022	2,395	2,510	2,233	2,378	2,418	2,401	2,501
Hong Kong	96	90	110	86	91	54	46	46	42	32
Japan	183	155	169	155	156	158	201	150	158	202
Korea	1,155	1,009	985	901	823	760	753	867	855	961
Taiwan	1,310	1,249	1,162	1,093	913	746	676	541	469	442
Thailand	97	114	119	97	123	134	153	236	264	311
East Asia, other	118	121	112	83	87	78	92	94	98	104
West Asia	2,083	2,192	2,172	2,044	1,844	1,647	1,595	1,647	1,484	1,665
Iran	174	173	150	113	93	92	80	100	57	68
Iraq	22	14	9	7	5	5	2	7	3	0
Israel	110	86	84	63	58	47	46	49	50	66
Lebanon	73	56	56	30	38	25	28	28	31	32
Saudi Arabia	77	71	80	70	46	58	56	52	71	65
Turkey	145	167	151	170	172	192	275	309	342	374
West Asia, other	1,482	1,625	1,642	1,591	1,432	1,228	1,108	1,102	930	1,060
Pacific/Australasia	232	231	237	209	206	161	180	160	154	145
Australia	56	61	43	48	46	49	42	44	32	28
Indonesia	84	83	70	67	65	45	63	48	66	47
Pacific/Australasia, other	92	87	124	94	95	67	75	68	56	70
Africa	586	428	445	368	375	338	366	337	297	341
Egypt	104	78	90	77	92	63	83	75	96	110
Nigeria	60	53	39	25	34	35	23	20	13	13
Africa, other	422	297	316	266	249	240	260	242	188	218
Country unknown	24	20	42	133	123	95	61	75	92	80
Engineering	3,491	3,483	3,527	3,148	3,061	2,595	2,802	3,086	2,918	3,174
North America	90	82	97	85	99	111	118	108	97	116
Canada	36	41	45	44	37	51	50	45	37	34

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Caribbean	14	7	8	13	17	13	8	8	9	2
Central America	10	8	7	3	6	5	6	9	4	12
Mexico	30	26	37	25	39	42	54	46	47	68
South America	111	89	118	96	105	99	112	96	92	82
Argentina	7	7	9	15	13	9	12	14	5	10
Brazil	49	46	65	44	51	43	37	37	33	16
Chile	8	8	8	1	2	6	9	7	8	12
Colombia	12	10	7	4	8	11	16	12	18	18
South America, other	35	18	29	32	31	30	38	26	28	26
Europe	258	297	237	248	305	276	297	335	301	313
Belgium	7	12	4	5	3	1	6	8	4	7
England, United Kingdom	14	20	10	12	12	14	11	11	14	12
France	32	24	25	12	23	23	23	24	25	23
Germany	29	37	16	28	29	38	46	48	45	22
Europe, other	176	204	182	191	238	200	211	244	213	249
East Asia	1,895	1,877	1,881	1,558	1,506	1,286	1,423	1,637	1,661	1,820
China, People's Republic of	663	782	825	666	702	597	721	882	893	979
Hong Kong	14	20	31	13	27	11	12	15	11	15
Japan	46	30	32	37	21	31	23	23	32	35
Korea	429	345	327	315	291	276	285	337	353	399
Taiwan	672	620	580	465	387	306	291	242	214	188
Thailand	34	38	43	41	53	52	60	114	131	169
East Asia, other	37	42	43	21	25	13	31	24	27	35
West Asia	910	966	999	971	838	679	675	741	596	673
Iran	92	85	68	61	44	42	38	62	31	41
Iraq	9	8	2	5	3	5	2	2	1	0
Israel	18	19	20	14	12	8	6	11	6	12
Lebanon	45	31	22	9	18	9	12	10	13	14
Saudi Arabia	28	25	40	31	18	26	17	29	25	23
Turkey	65	74	74	97	82	100	136	144	151	168
West Asia, other	653	724	773	754	661	489	464	483	369	415
Pacific/Australasia	50	44	38	47	49	24	44	40	39	35
Australia	11	7	6	8	4	8	4	10	1	5
Indonesia	28	29	15	23	29	13	27	23	29	22
Pacific/Australasia, other	11	8	17	16	16	3	13	7	9	8
Africa	168	122	144	111	115	98	112	102	98	107
Egypt	63	48	60	49	65	49	62	46	56	62
Nigeria	6	14	11	8	7	9	4	3	5	5
Africa, other	99	60	73	54	43	40	46	53	37	40
Country unknown	9	6	13	32	44	22	21	27	34	28
Science	7,065	7,033	7,317	6,642	6,734	6,296	6,267	6,151	5,936	6,312
North America	458	426	441	413	477	446	496	491	478	521
Canada	239	233	233	219	251	238	244	262	277	291
Caribbean	47	54	43	36	48	41	46	32	35	42
Central America	60	35	40	35	38	37	51	36	31	37
Mexico	112	104	125	123	140	130	155	161	135	151

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
South America	298	272	344	318	331	345	335	320	321	377
Argentina	49	43	59	54	58	47	66	55	61	65
Brazil	109	91	142	107	113	121	94	106	93	91
Chile	34	30	29	30	24	27	33	18	32	54
Colombia	36	35	35	36	24	41	40	47	37	65
South America, other	70	73	79	91	112	109	102	94	98	102
Europe	896	960	1,032	1,066	1,227	1,210	1,210	1,316	1,251	1,293
Belgium	14	20	21	13	14	20	15	16	12	16
England, United Kingdom	114	112	107	80	112	128	89	127	120	98
France	64	58	44	62	54	56	60	61	67	64
Germany	168	171	154	153	181	145	183	172	152	167
Europe, other	536	599	706	758	866	861	863	940	900	948
East Asia	3,625	3,642	3,798	3,252	3,197	2,877	2,876	2,715	2,626	2,733
China, People's Republic of	1,898	1,999	2,197	1,729	1,808	1,636	1,657	1,536	1,508	1,522
Hong Kong	82	70	79	73	64	43	34	31	31	17
Japan	137	125	137	118	135	127	178	127	126	167
Korea	726	664	658	586	532	484	468	530	502	562
Taiwan	638	629	582	628	526	440	385	299	255	254
Thailand	63	76	76	56	70	82	93	122	133	142
East Asia, other	81	79	69	62	62	65	61	70	71	69
West Asia	1,173	1,226	1,173	1,073	1,006	968	920	906	888	992
Iran	82	88	82	52	49	50	42	38	26	27
Iraq	13	6	7	2	2	0	0	5	2	0
Israel	92	67	64	49	46	39	40	38	44	54
Lebanon	28	25	34	21	20	16	16	18	18	18
Saudi Arabia	49	46	40	39	28	32	39	23	46	42
Turkey	80	93	77	73	90	92	139	165	191	206
West Asia, other	829	901	869	837	771	739	644	619	561	645
Pacific/Australasia	182	187	199	162	157	137	136	120	115	110
Australia	45	54	37	40	42	41	38	34	31	23
Indonesia	56	54	55	44	36	32	36	25	37	25
Pacific/Australasia, other	81	79	107	78	79	64	62	61	47	62
Africa	418	306	301	257	260	240	254	235	199	234
Egypt	41	30	30	28	27	14	21	29	40	48
Nigeria	54	39	28	17	27	26	19	17	8	8
Africa, other	323	237	243	212	206	200	214	189	151	178
Country unknown	15	14	29	101	79	73	40	48	58	52
Permanent visas	3,022	3,509	3,009	2,281	2,019	1,653	1,409	1,278	1,166	1,098
North America	120	135	121	107	113	100	92	100	93	83
Canada	58	78	71	57	66	56	51	54	64	45
Caribbean	28	26	27	20	21	20	18	15	15	14
Central America	15	8	3	7	6	12	5	10	6	4
Mexico	19	23	20	23	20	12	18	21	8	20
South America	64	52	65	73	51	50	51	44	53	55
Argentina	13	9	17	20	6	9	12	9	11	11
Brazil	16	11	11	7	12	10	10	12	13	9
Chile	4	9	5	8	7	11	6	0	4	5

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Colombia	13	8	10	7	5	5	9	4	8	13
South America, other	18	15	22	31	21	15	14	19	17	17
Europe	278	286	314	342	370	341	340	357	293	297
Belgium	4	7	8	8	3	6	5	6	2	5
England, United Kingdom	56	49	50	39	43	51	36	53	49	33
France	16	15	16	23	25	15	19	23	11	19
Germany	62	53	51	43	43	33	60	39	33	37
Europe, other	140	162	189	229	256	236	220	236	198	203
East Asia	2,013	2,504	1,980	1,274	1,081	748	567	442	448	398
China, People's Republic of	1,659	2,190	1,679	985	850	534	383	304	317	260
Hong Kong	20	15	18	15	14	11	8	6	5	10
Japan	31	19	23	24	22	27	35	21	16	31
Korea	99	87	94	81	71	79	59	51	49	43
Taiwan	179	167	137	153	103	78	65	47	40	33
Thailand	11	10	14	4	8	3	4	6	6	6
East Asia, other	14	16	15	12	13	16	13	7	15	15
West Asia	376	385	394	325	261	285	233	212	194	181
Iran	65	84	74	37	38	46	40	29	23	23
Iraq	7	5	4	1	3	3	1	2	1	0
Israel	41	21	17	17	17	16	8	5	17	12
Lebanon	12	11	11	6	7	9	6	5	4	4
Saudi Arabia	7	4	11	1	0	3	3	1	1	2
Turkey	15	19	23	22	18	22	27	33	25	26
West Asia, other	229	241	254	241	178	186	148	137	123	114
Pacific/Australasia	40	43	32	30	26	31	29	25	17	18
Australia	13	10	13	9	6	18	11	14	7	5
Indonesia	13	16	3	8	7	5	10	2	4	5
Pacific/Australasia, other	14	17	16	13	13	8	8	9	6	8
Africa	124	93	83	89	83	78	85	82	50	51
Egypt	12	12	11	14	13	9	17	6	12	8
Nigeria	33	32	17	7	15	20	11	7	5	2
Africa, other	79	49	55	68	55	49	57	69	33	41
Country unknown	7	11	20	41	34	20	12	16	18	15
Engineering	838	956	793	593	479	403	350	299	271	265
North America	14	23	15	14	17	19	13	8	8	14
Canada	6	9	6	7	8	10	7	2	5	9
Caribbean	4	3	5	4	5	5	3	3	2	0
Central America	2	4	0	1	0	2	0	2	0	1
Mexico	2	7	4	2	4	2	3	1	1	4
South America	13	8	9	12	7	7	7	10	8	8
Argentina	1	1	3	5	0	0	1	2	0	1
Brazil	2	2	3	2	2	3	0	4	4	2
Chile	1	1	0	0	0	2	1	0	0	0
Colombia	4	1	1	2	1	1	3	0	2	4
South America, other	5	3	2	3	4	1	2	4	2	1
Europe	50	68	58	71	71	55	68	55	50	52

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Belgium	1	1	1	3	0	1	1	2	0	1
England, United Kingdom	7	9	4	4	6	7	4	4	7	7
France	5	3	5	3	6	4	8	5	2	1
Germany	11	8	6	6	4	3	11	9	4	2
Europe, other	26	47	42	55	55	40	44	35	37	41
East Asia	579	698	526	332	254	192	154	125	129	110
China, People's Republic of	430	573	391	226	183	109	99	78	85	71
Hong Kong	7	5	9	4	4	5	1	4	1	4
Japan	5	2	2	3	0	1	3	1	4	4
Korea	42	34	37	36	20	33	22	21	11	14
Taiwan	89	76	78	61	39	38	27	18	20	12
Thailand	1	4	3	0	5	2	1	2	3	2
East Asia, other	5	4	6	2	3	4	1	1	5	3
West Asia	140	120	152	126	96	100	76	76	53	64
Iran	28	29	29	17	19	19	16	14	9	14
Iraq	5	3	0	1	2	3	1	1	0	0
Israel	6	0	0	2	2	2	0	1	0	5
Lebanon	5	3	8	2	5	7	1	3	1	0
Saudi Arabia	3	3	4	0	0	2	1	1	1	1
Turkey	6	7	12	16	4	11	13	13	11	15
West Asia, other	87	75	99	88	64	56	44	43	31	29
Pacific/Australasia	12	9	4	7	7	6	6	6	1	0
Australia	4	0	2	1	0	4	1	4	0	0
Indonesia	7	7	0	4	6	1	4	1	1	0
Pacific/Australasia, other	1	2	2	2	1	1	1	1	0	0
Africa	28	28	24	24	21	21	23	17	14	14
Egypt	4	9	4	7	9	6	11	3	7	5
Nigeria	2	10	5	1	2	5	2	3	2	0
Africa, other	22	9	15	16	10	10	10	11	5	9
Country unknown	2	2	5	7	6	3	3	2	8	3
Science	2,184	2,553	2,216	1,688	1,540	1,250	1,059	979	895	833
North America	106	112	106	93	96	81	79	92	85	69
Canada	52	69	65	50	58	46	44	52	59	36
Caribbean	24	23	22	16	16	15	15	12	13	14
Central America	13	4	3	6	6	10	5	8	6	3
Mexico	17	16	16	21	16	10	15	20	7	16
South America	51	44	56	61	44	43	44	34	45	47
Argentina	12	8	14	15	6	9	11	7	11	10
Brazil	14	9	8	5	10	7	10	8	9	7
Chile	3	8	5	8	7	9	5	0	4	5
Colombia	9	7	9	5	4	4	6	4	6	9
South America, other	13	12	20	28	17	14	12	15	15	16
Europe	228	218	256	271	299	286	272	302	243	245
Belgium	3	6	7	5	3	5	4	4	2	4
England, United Kingdom	49	40	46	35	37	44	32	49	42	26
France	11	12	11	20	19	11	11	18	9	18
Germany	51	45	45	37	39	30	49	30	29	35

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Europe, other	114	115	147	174	201	196	176	201	161	162
East Asia	1,434	1,806	1,454	942	827	556	413	317	319	288
China, People's Republic of	1,229	1,617	1,288	759	667	425	284	226	232	189
Hong Kong	13	10	9	11	10	6	7	2	4	6
Japan	26	17	21	21	22	26	32	20	12	27
Korea	57	53	57	45	51	46	37	30	38	29
Taiwan	90	91	59	92	64	40	38	29	20	21
Thailand	10	6	11	4	3	1	3	4	3	4
East Asia, other	9	12	9	10	10	12	12	6	10	12
West Asia	236	265	242	199	165	185	157	136	141	117
Iran	37	55	45	20	19	27	24	15	14	9
Iraq	2	2	4	0	1	0	0	1	1	0
Israel	35	21	17	15	15	14	8	4	17	7
Lebanon	7	8	3	4	2	2	5	2	3	4
Saudi Arabia	4	1	7	1	0	1	2	0	0	1
Turkey	9	12	11	6	14	11	14	20	14	11
West Asia, other	142	166	155	153	114	130	104	94	92	85
Pacific/Australasia	28	34	28	23	19	25	23	19	16	18
Australia	9	10	11	8	6	14	10	10	7	5
Indonesia	6	9	3	4	1	4	6	1	3	5
Pacific/Australasia, other	13	15	14	11	12	7	7	8	6	8
Africa	96	65	59	65	62	57	62	65	36	37
Egypt	8	3	7	7	4	3	6	3	5	3
Nigeria	31	22	12	6	13	15	9	4	3	2
Africa, other	57	40	40	52	45	39	47	58	28	32
Country unknown	5	9	15	34	28	17	9	14	10	12
Temporary visas	7,534	7,007	7,835	7,509	7,776	7,238	7,660	7,959	7,688	8,388
North America	428	373	417	391	463	457	522	499	482	554
Canada	217	196	207	206	222	233	243	253	250	280
Caribbean	33	35	24	29	44	34	36	25	29	30
Central America	55	35	44	31	38	30	52	35	29	45
Mexico	123	107	142	125	159	160	191	186	174	199
South America	345	309	397	341	385	394	396	372	360	404
Argentina	43	41	51	49	65	47	66	60	55	64
Brazil	142	126	196	144	152	154	121	131	113	98
Chile	38	29	32	23	19	22	36	25	36	61
Colombia	35	37	32	33	27	47	47	55	47	70
South America, other	87	76	86	92	122	124	126	101	109	111
Europe	876	971	955	972	1,162	1,145	1,167	1,294	1,259	1,309
Belgium	17	25	17	10	14	15	16	18	14	18
England, United Kingdom	72	83	67	53	81	91	64	85	85	77
France	80	67	53	51	52	64	64	62	81	68
Germany	135	155	119	138	167	150	169	181	164	152
Europe, other	572	641	699	720	848	825	854	948	915	994
East Asia	3,507	3,015	3,699	3,536	3,622	3,415	3,732	3,910	3,839	4,155
China, People's Republic of	902	591	1,343	1,410	1,660	1,699	1,995	2,114	2,084	2,241

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Hong Kong	76	75	92	71	77	43	38	40	37	22
Japan	152	136	146	131	134	131	166	129	142	171
Korea	1,056	922	891	820	752	681	694	816	806	918
Taiwan	1,131	1,082	1,025	940	810	668	611	494	429	409
Thailand	86	104	105	93	115	131	149	230	258	305
East Asia, other	104	105	97	71	74	62	79	87	83	89
West Asia	1,707	1,807	1,778	1,719	1,583	1,362	1,362	1,435	1,290	1,484
Iran	109	89	76	76	55	46	40	71	34	45
Iraq	15	9	5	6	2	2	1	5	2	0
Israel	69	65	67	46	41	31	38	44	33	54
Lebanon	61	45	45	24	31	16	22	23	27	28
Saudi Arabia	70	67	69	69	46	55	53	51	70	63
Turkey	130	148	128	148	154	170	248	276	317	348
West Asia, other	1,253	1,384	1,388	1,350	1,254	1,042	960	965	807	946
Pacific/Australasia	192	188	205	179	180	130	151	135	137	127
Australia	43	51	30	39	40	31	31	30	25	23
Indonesia	71	67	67	59	58	40	53	46	62	42
Pacific/Australasia, other	78	70	108	81	82	59	67	59	50	62
Africa	462	335	362	279	292	260	281	255	247	290
Egypt	92	66	79	63	79	54	66	69	84	102
Nigeria	27	21	22	18	19	15	12	13	8	11
Africa, other	343	248	261	198	194	191	203	173	155	177
Country unknown	17	9	22	92	89	75	49	59	74	65
Engineering	2,653	2,527	2,734	2,555	2,582	2,192	2,452	2,787	2,647	2,909
North America	76	59	82	71	82	92	105	100	89	102
Canada	30	32	39	37	29	41	43	43	32	25
Caribbean	10	4	3	9	12	8	5	5	7	2
Central America	8	4	7	2	6	3	6	7	4	11
Mexico	28	19	33	23	35	40	51	45	46	64
South America	98	81	109	84	98	92	105	86	84	74
Argentina	6	6	6	10	13	9	11	12	5	9
Brazil	47	44	62	42	49	40	37	33	29	14
Chile	7	7	8	1	2	4	8	7	8	12
Colombia	8	9	6	2	7	10	13	12	16	14
South America, other	30	15	27	29	27	29	36	22	26	25
Europe	208	229	179	177	234	221	229	280	251	261
Belgium	6	11	3	2	3	0	5	6	4	6
England, United Kingdom	7	11	6	8	6	7	7	7	7	5
France	27	21	20	9	17	19	15	19	23	22
Germany	18	29	10	22	25	35	35	39	41	20
Europe, other	150	157	140	136	183	160	167	209	176	208
East Asia	1,316	1,179	1,355	1,226	1,252	1,094	1,269	1,512	1,532	1,710
China, People's Republic of	233	209	434	440	519	488	622	804	808	908
Hong Kong	7	15	22	9	23	6	11	11	10	11
Japan	41	28	30	34	21	30	20	22	28	31
Korea	387	311	290	279	271	243	263	316	342	385
Taiwan	583	544	502	404	348	268	264	224	194	176

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Thailand	33	34	40	41	48	50	59	112	128	167
East Asia, other	32	38	37	19	22	9	30	23	22	32
West Asia	770	846	847	845	742	579	599	665	543	609
Iran	64	56	39	44	25	23	22	48	22	27
Iraq	4	5	2	4	1	2	1	1	1	0
Israel	12	19	20	12	10	6	6	10	6	7
Lebanon	40	28	14	7	13	2	11	7	12	14
Saudi Arabia	25	22	36	31	18	24	16	28	24	22
Turkey	59	67	62	81	78	89	123	131	140	153
West Asia, other	566	649	674	666	597	433	420	440	338	386
Pacific/Australasia	38	35	34	40	42	18	38	34	38	35
Australia	7	7	4	7	4	4	3	6	1	5
Indonesia	21	22	15	19	23	12	23	22	28	22
Pacific/Australasia, other	10	6	15	14	15	2	12	6	9	8
Africa	140	94	120	87	94	77	89	85	84	93
Egypt	59	39	56	42	56	43	51	43	49	57
Nigeria	4	4	6	7	5	4	2	0	3	5
Africa, other	77	51	58	38	33	30	36	42	32	31
Country unknown	7	4	8	25	38	19	18	25	26	25
Science	4,881	4,480	5,101	4,954	5,194	5,046	5,208	5,172	5,041	5,479
North America	352	314	335	320	381	365	417	399	393	452
Canada	187	164	168	169	193	192	200	210	218	255
Caribbean	23	31	21	20	32	26	31	20	22	28
Central America	47	31	37	29	32	27	46	28	25	34
Mexico	95	88	109	102	124	120	140	141	128	135
South America	247	228	288	257	287	302	291	286	276	330
Argentina	37	35	45	39	52	38	55	48	50	55
Brazil	95	82	134	102	103	114	84	98	84	84
Chile	31	22	24	22	17	18	28	18	28	49
Colombia	27	28	26	31	20	37	34	43	31	56
South America, other	57	61	59	63	95	95	90	79	83	86
Europe	668	742	776	795	928	924	938	1,014	1,008	1,048
Belgium	11	14	14	8	11	15	11	12	10	12
England, United Kingdom	65	72	61	45	75	84	57	78	78	72
France	53	46	33	42	35	45	49	43	58	46
Germany	117	126	109	116	142	115	134	142	123	132
Europe, other	422	484	559	584	665	665	687	739	739	786
East Asia	2,191	1,836	2,344	2,310	2,370	2,321	2,463	2,398	2,307	2,445
China, People's Republic of	669	382	909	970	1,141	1,211	1,373	1,310	1,276	1,333
Hong Kong	69	60	70	62	54	37	27	29	27	11
Japan	111	108	116	97	113	101	146	107	114	140
Korea	669	611	601	541	481	438	431	500	464	533
Taiwan	548	538	523	536	462	400	347	270	235	233
Thailand	53	70	65	52	67	81	90	118	130	138
East Asia, other	72	67	60	52	52	53	49	64	61	57
West Asia	937	961	931	874	841	783	763	770	747	875

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by country of citizenship, visa type, and year of doctorate: 1994–2003

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Country/economy	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Iran	45	33	37	32	30	23	18	23	12	18
Iraq	11	4	3	2	1	0	0	4	1	0
Israel	57	46	47	34	31	25	32	34	27	47
Lebanon	21	17	31	17	18	14	11	16	15	14
Saudi Arabia	45	45	33	38	28	31	37	23	46	41
Turkey	71	81	66	67	76	81	125	145	177	195
West Asia, other	687	735	714	684	657	609	540	525	469	560
Pacific/Australasia	154	153	171	139	138	112	113	101	99	92
Australia	36	44	26	32	36	27	28	24	24	18
Indonesia	50	45	52	40	35	28	30	24	34	20
Pacific/Australasia, other	68	64	93	67	67	57	55	53	41	54
Africa	322	241	242	192	198	183	192	170	163	197
Egypt	33	27	23	21	23	11	15	26	35	45
Nigeria	23	17	16	11	14	11	10	13	5	6
Africa, other	266	197	203	160	161	161	167	131	123	146
Country unknown	10	5	14	67	51	56	31	34	48	40

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
All institutions		40,710	25,258	5,265	643	672	1,463	814	1,673	6,616	922	5,694
Alabama	24	537	314	82	9	8	17	18	30	108	28	80
AL A&M U.	299	5	5	0	0	0	0	0	0	4	4	0
Auburn U. main campus	72	159	116	30	3	4	8	5	10	36	24	12
U. AL Birmingham, The	87	155	94	12	0	1	1	0	10	62	0	62
U. AL Huntsville, The	214	21	21	15	0	2	5	3	5	0	0	0
U.S. Sports Academy	356	8	0	0	0	0	0	0	0	0	0	0
U. AL, The	103	178	74	25	6	1	3	10	5	3	0	3
U. South AL	308	11	4	0	0	0	0	0	0	3	0	3
Alaska	52	36	36	3	0	1	0	1	1	10	3	7
U. AK Fairbanks	167	36	36	3	0	1	0	1	1	10	3	7
Arizona	20	719	451	97	9	17	16	13	42	90	7	83
AZ State U. main campus	42	302	178	58	6	13	10	6	23	19	0	19
Northern AZ U.	248	38	13	0	0	0	0	0	0	9	3	6
U. AZ	22	379	260	39	3	4	6	7	19	62	4	58
Arkansas	38	168	82	10	2	2	4	0	2	44	22	22
AR State U. main campus	337	2	2	0	0	0	0	0	0	0	0	0
U. AR Little Rock	356	28	0	0	0	0	0	0	0	0	0	0
U. AR for Medical Sciences	236	17	15	0	0	0	0	0	0	15	0	15
U. AR main campus	112	121	65	10	2	2	4	0	2	29	22	7
California	1	4,736	3,405	754	56	103	288	107	200	755	31	724
Azusa Pacific U.	356	4	0	0	0	0	0	0	0	0	0	0
Biola U.	299	16	5	0	0	0	0	0	0	0	0	0
CA Institute of Integral Studies	273	33	9	0	0	0	0	0	0	0	0	0
CA Institute of Technology	60	135	135	41	4	2	13	7	15	15	0	15
CA School of Professional Psychologists Fresno	198	25	25	0	0	0	0	0	0	0	0	0
CA School of Professional Psychology Alameda	174	34	33	0	0	0	0	0	0	0	0	0
CA School of Professional Psychology Los Angeles	162	37	37	0	0	0	0	0	0	0	0	0
CA School of Professional Psychology San Diego	128	61	56	0	0	0	0	0	0	0	0	0
Claremont Graduate U.	134	114	52	0	0	0	0	0	0	0	0	0
Claremont School of Theology	356	1	0	0	0	0	0	0	0	0	0	0
Fielding Institute, The	132	86	53	2	0	0	0	0	2	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
All institutions	866	783	994	3,320	2,037	1,247	36	3,275	4,139	15,452
Alabama	6	6	14	30	18	11	1	41	27	223
AL A&M U.	0	0	0	1	0	1	0	0	0	0
Auburn U. main campus	2	0	6	9	8	0	1	21	12	43
U. AL Birmingham, The	2	0	0	7	2	5	0	8	3	61
U. AL Huntsville, The	1	2	0	3	0	3	0	0	0	0
U.S. Sports Academy	0	0	0	0	0	0	0	0	0	8
U. AL, The	1	3	8	10	8	2	0	12	12	104
U. South AL	0	1	0	0	0	0	0	0	0	7
Alaska	0	17	0	4	0	4	0	1	1	0
U. AK Fairbanks	0	17	0	4	0	4	0	1	1	0
Arizona	11	27	16	70	29	37	4	53	87	268
AZ State U. main campus	7	5	8	23	18	5	0	25	33	124
Northern AZ U.	0	0	0	0	0	0	0	0	4	25
U. AZ	4	22	8	47	11	32	4	28	50	119
Arkansas	0	4	1	11	8	3	0	9	3	86
AR State U. main campus	0	2	0	0	0	0	0	0	0	0
U. AR Little Rock	0	0	0	0	0	0	0	0	0	28
U. AR for Medical Sciences	0	0	0	0	0	0	0	0	0	2
U. AR main campus	0	2	1	11	8	3	0	9	3	56
California	156	123	138	448	273	174	1	479	552	1,331
Azusa Pacific U.	0	0	0	0	0	0	0	0	0	4
Biola U.	0	0	0	0	0	0	0	4	1	11
CA Institute of Integral Studies	0	0	0	0	0	0	0	7	2	24
CA Institute of Technology	2	11	10	50	25	25	0	0	6	0
CA School of Professional Psychologists Fresno	0	0	0	0	0	0	0	25	0	0
CA School of Professional Psychology Alameda	0	0	0	0	0	0	0	33	0	1
CA School of Professional Psychology Los Angeles	0	0	0	0	0	0	0	37	0	0
CA School of Professional Psychology San Diego	0	0	0	0	0	0	0	56	0	5
Claremont Graduate U.	3	0	5	0	0	0	0	20	24	62
Claremont School of Theology	0	0	0	0	0	0	0	0	0	1
Fielding Institute, The	0	0	0	0	0	0	0	45	6	33

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Fuller Theological Seminary CA	218	48	20	0	0	0	0	0	0	0	0	0
Graduate Theological Union	356	23	0	0	0	0	0	0	0	0	0	0
Hebrew Union C. California Branch	356	1	0	0	0	0	0	0	0	0	0	0
La Sierra U.	356	9	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	219	28	19	0	0	0	0	0	0	10	0	10
Naval Postgraduate School	226	18	17	10	0	0	0	4	6	0	0	0
Pacific Graduate School of Psychology	193	27	27	0	0	0	0	0	0	0	0	0
Rand Graduate School of Policy Studies	273	9	9	0	0	0	0	0	0	0	0	0
San Diego State U.	214	40	21	0	0	0	0	0	0	7	0	7
Santa Clara U.	308	4	4	4	0	0	4	0	0	0	0	0
Saybrook Institute	156	44	39	0	0	0	0	0	0	0	0	0
Stanford U.	2	578	462	193	17	17	76	24	59	65	0	65
U. CA, Berkeley	1	767	583	149	12	37	34	33	33	128	6	122
U. CA, Davis	18	374	309	44	7	11	9	0	17	158	20	138
U. CA, Irvine	56	188	145	32	0	11	5	2	14	29	0	29
U. CA, Los Angeles	8	593	390	69	5	8	30	13	13	97	0	97
U. CA, Riverside	89	121	90	3	0	0	3	0	0	35	4	31
U. CA, San Diego	30	263	219	52	0	3	30	7	12	74	0	74
U. CA, San Francisco	117	80	62	2	0	0	0	0	2	44	0	44
U. CA, Santa Barbara	39	250	184	51	7	0	23	9	12	22	1	21
U. CA, Santa Cruz	92	103	89	10	0	0	10	0	0	12	0	12
U. La Verne	320	44	3	0	0	0	0	0	0	0	0	0
U. San Diego	356	34	0	0	0	0	0	0	0	0	0	0
U. San Francisco	356	51	0	0	0	0	0	0	0	0	0	0
U. Southern CA	19	468	300	92	4	14	51	8	15	59	0	59
U. of the Pacific	299	22	5	0	0	0	0	0	0	0	0	0
Wright Institute all campuses	320	3	3	0	0	0	0	0	0	0	0	0
Colorado	17	764	533	128	21	37	19	20	31	114	18	96
CO School of Mines	130	54	54	34	11	2	0	1	20	0	0	0
CO State U.	50	181	157	23	1	10	5	7	0	53	17	36
CO Technical U. Colorado Springs	299	12	5	0	0	0	0	0	0	0	0	0
U. CO Boulder	24	299	231	65	9	22	13	12	9	31	0	31
U. CO Health Sciences Ctr.	181	41	31	0	0	0	0	0	0	29	0	29

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
Fuller Theological Seminary CA	0	0	0	0	0	0	0	17	3	28
Graduate Theological Union	0	0	0	0	0	0	0	0	0	23
Hebrew Union C. California Branch	0	0	0	0	0	0	0	0	0	1
La Sierra U.	0	0	0	0	0	0	0	0	0	9
Loma Linda U.	0	1	0	0	0	0	0	8	0	9
Naval Postgraduate School	1	3	3	0	0	0	0	0	0	1
Pacific Graduate School of Psychology	0	0	0	0	0	0	0	27	0	0
Rand Graduate School of Policy Studies	0	0	0	0	0	0	0	0	9	0
San Diego State U.	0	0	1	2	2	0	0	9	2	19
Santa Clara U.	0	0	0	0	0	0	0	0	0	0
Saybrook Institute	0	0	0	0	0	0	0	35	4	5
Stanford U.	31	21	21	71	36	35	0	18	42	116
U. CA, Berkeley	24	17	35	92	58	34	0	17	121	184
U. CA, Davis	6	11	11	38	27	10	1	7	34	65
U. CA, Irvine	13	4	6	24	20	4	0	8	29	43
U. CA, Los Angeles	17	13	14	46	25	21	0	38	96	203
U. CA, Riverside	4	3	2	17	12	5	0	11	15	31
U. CA, San Diego	10	19	10	24	10	14	0	11	19	44
U. CA, San Francisco	1	0	0	8	8	0	0	0	7	18
U. CA, Santa Barbara	14	9	14	27	16	11	0	10	37	66
U. CA, Santa Cruz	10	9	1	25	12	13	0	6	16	14
U. La Verne	0	0	0	0	0	0	0	1	2	41
U. San Diego	0	0	0	0	0	0	0	0	0	34
U. San Francisco	0	0	0	0	0	0	0	0	0	51
U. Southern CA	20	2	5	19	17	2	0	26	77	168
U. of the Pacific	0	0	0	5	5	0	0	0	0	17
Wright Institute all campuses	0	0	0	0	0	0	0	3	0	0
Colorado	15	31	17	91	45	46	0	54	83	231
CO School of Mines	2	10	1	4	1	3	0	0	3	0
CO State U.	3	10	3	29	19	10	0	16	20	24
CO Technical U. Colorado Springs	5	0	0	0	0	0	0	0	0	7
U. CO Boulder	3	11	8	55	22	33	0	17	41	68
U. CO Health Sciences Ctr.	0	0	1	1	1	0	0	0	0	10

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
U. CO Colorado Springs	320	3	3	1	0	0	1	0	0	0	0	0
U. CO Denver	256	27	12	3	0	3	0	0	0	1	1	0
U. Denver	174	78	33	2	0	0	0	0	2	0	0	0
U. Northern CO	283	69	7	0	0	0	0	0	0	0	0	0
Connecticut	23	578	385	34	8	3	9	7	7	128	8	120
U. CT	48	237	160	30	8	3	7	6	6	43	6	37
U. Hartford	356	18	0	0	0	0	0	0	0	0	0	0
Wesleyan U.	256	12	12	0	0	0	0	0	0	4	0	4
Yale U.	33	311	213	4	0	0	2	1	1	81	2	79
Delaware	39	167	102	30	12	3	4	4	7	7	4	3
U. DE	80	135	102	30	12	3	4	4	7	7	4	3
Wilmington C. (New Castle, DE)	356	32	0	0	0	0	0	0	0	0	0	0
District of Columbia	25	519	313	37	0	3	8	10	16	51	0	51
American U.	134	60	52	0	0	0	0	0	0	2	0	2
Catholic U. America, The	162	96	37	7	0	0	2	4	1	1	0	1
Gallaudet U.	308	6	4	0	0	0	0	0	0	0	0	0
George Washington U.	78	189	104	28	0	3	4	6	15	12	0	12
Georgetown U.	113	88	64	0	0	0	0	0	0	22	0	22
Howard U.	134	80	52	2	0	0	2	0	0	14	0	14
Florida	4	2,157	818	167	13	16	60	19	59	162	32	130
Barry U.	356	17	0	0	0	0	0	0	0	0	0	0
FL A&M U.	308	4	4	0	0	0	0	0	0	3	0	3
FL Atlantic U.	187	51	28	5	0	0	4	0	1	1	0	1
FL Institute of Technology	178	33	32	12	0	1	6	1	4	5	0	5
FL International U.	178	60	32	6	0	3	1	0	2	4	0	4
FL State U.	75	290	115	7	0	1	2	3	1	16	0	16
Lynn U.	356	6	0	0	0	0	0	0	0	0	0	0
Nova Southeastern U.	86	675	95	1	0	0	1	0	0	0	0	0
U. Central FL	150	111	44	30	0	3	12	2	13	0	0	0
U. FL	16	437	314	87	11	8	22	9	37	96	31	65
U. Miami	103	119	74	6	0	0	3	2	1	22	0	22
U. Sarasota	320	179	3	0	0	0	0	0	0	1	1	0
U. South FL	101	146	77	13	2	0	9	2	0	14	0	14

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Physics and astronomy		Other physical sciences			
					Chemistry					
U. CO Colorado Springs	2	0	0	0	0	0	0	0	0	0
U. CO Denver	0	0	2	0	0	0	0	0	6	15
U. Denver	0	0	0	2	2	0	0	17	12	45
U. Northern CO	0	0	2	0	0	0	0	4	1	62
Connecticut	6	6	16	57	32	25	0	41	97	193
U. CT	1	3	4	16	10	6	0	25	38	77
U. Hartford	0	0	0	0	0	0	0	0	0	18
Wesleyan U.	0	0	4	4	2	2	0	0	0	0
Yale U.	5	3	8	37	20	17	0	16	59	98
Delaware	3	8	1	17	9	7	1	15	21	65
U. DE	3	8	1	17	9	7	1	15	21	33
Wilmington C. (New Castle, DE)	0	0	0	0	0	0	0	0	0	32
District of Columbia	7	1	8	20	15	5	0	51	138	206
American U.	0	0	2	3	1	2	0	5	40	8
Catholic U. America, The	0	0	0	1	0	1	0	13	15	59
Gallaudet U.	0	0	0	0	0	0	0	4	0	2
George Washington U.	7	1	4	4	2	2	0	15	33	85
Georgetown U.	0	0	1	9	9	0	0	0	32	24
Howard U.	0	0	1	3	3	0	0	14	18	28
Florida	52	40	17	109	70	38	1	156	115	1,339
Barry U.	0	0	0	0	0	0	0	0	0	17
FL A&M U.	0	0	0	1	1	0	0	0	0	0
FL Atlantic U.	1	1	2	8	1	7	0	6	4	23
FL Institute of Technology	4	3	4	4	2	2	0	0	0	1
FL International U.	1	0	0	1	1	0	0	11	9	28
FL State U.	3	14	6	25	14	11	0	20	24	175
Lynn U.	0	0	0	0	0	0	0	0	0	6
Nova Southeastern U.	28	1	0	0	0	0	0	51	14	580
U. Central FL	6	0	0	7	0	7	0	0	1	67
U. FL	3	2	3	45	39	6	0	29	49	123
U. Miami	0	11	1	9	6	3	0	17	8	45
U. Sarasota	2	0	0	0	0	0	0	0	0	176
U. South FL	4	8	1	9	6	2	1	22	6	69

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
U. West FL	356	29	0	0	0	0	0	0	0	0	0	0
Georgia	13	990	620	172	10	20	49	32	61	181	34	147
Clark Atlanta U.	308	23	4	0	0	0	0	0	0	0	0	0
Emory U.	94	155	86	1	0	0	0	0	1	53	0	53
GA Institute of Technology main campus	28	225	222	163	10	19	49	32	53	9	0	9
GA Southern U.	356	22	0	0	0	0	0	0	0	0	0	0
GA State U.	119	122	61	0	0	0	0	0	0	6	0	6
Institute of Paper Science and Technology	273	9	9	7	0	0	0	0	7	1	1	0
Medical C. GA	256	15	12	0	0	0	0	0	0	12	0	12
Mercer U.	337	2	2	0	0	0	0	0	0	0	0	0
Morehouse School of Medicine	320	3	3	0	0	0	0	0	0	3	0	3
U. GA	29	408	221	1	0	1	0	0	0	97	33	64
Valdosta State U.	356	6	0	0	0	0	0	0	0	0	0	0
Hawaii	42	128	92	2	0	2	0	0	0	31	2	29
U. HI Manoa	88	128	92	2	0	2	0	0	0	31	2	29
Idaho	43	124	70	17	1	4	1	4	7	24	11	13
ID State U.	248	35	13	1	0	0	0	0	1	5	0	5
U. ID	124	89	57	16	1	4	1	4	6	19	11	8
Illinois	5	2,113	1,262	276	34	39	72	46	85	287	32	255
Benedictine U.	320	16	3	0	0	0	0	0	0	0	0	0
Chicago Theological Seminary	356	5	0	0	0	0	0	0	0	0	0	0
DePaul U.	226	25	17	0	0	0	0	0	0	0	0	0
Finch U. of Health Sciences/Chicago Medical School	248	13	13	0	0	0	0	0	0	6	0	6
Garrett-Evangelical Theological Seminary	356	4	0	0	0	0	0	0	0	0	0	0
IL Institute of Technology	124	74	57	23	5	6	5	4	3	8	0	8
IL State U.	283	55	7	0	0	0	0	0	0	2	0	2
Institute for Clinical Social Work	345	9	1	0	0	0	0	0	0	0	0	0
Loyola U. Chicago	137	157	51	0	0	0	0	0	0	15	0	15
Lutheran School of Theology Chicago	356	4	0	0	0	0	0	0	0	0	0	0
National-Louis U.	356	9	0	0	0	0	0	0	0	0	0	0
Northern IL U.	159	100	38	0	0	0	0	0	0	3	0	3
Northwestern U.	35	301	202	71	13	11	8	10	29	34	0	34
Roosevelt U.	356	6	0	0	0	0	0	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
U. West FL	0	0	0	0	0	0	0	0	0	29
Georgia	20	14	14	71	60	11	0	76	72	370
Clark Atlanta U.	0	0	0	1	1	0	0	0	3	19
Emory U.	0	0	1	7	7	0	0	9	15	69
GA Institute of Technology main campus	16	3	7	18	14	4	0	4	2	3
GA Southern U.	0	0	0	0	0	0	0	0	0	22
GA State U.	2	1	0	15	10	5	0	24	13	61
Institute of Paper Science and Technology	0	0	0	1	1	0	0	0	0	0
Medical C. GA	0	0	0	0	0	0	0	0	0	3
Mercer U.	0	0	0	2	2	0	0	0	0	0
Morehouse School of Medicine	0	0	0	0	0	0	0	0	0	0
U. GA	2	10	6	27	25	2	0	39	39	187
Valdosta State U.	0	0	0	0	0	0	0	0	0	6
Hawaii	3	11	1	5	0	5	0	5	34	36
U. HI Manoa	3	11	1	5	0	5	0	5	34	36
Idaho	5	3	1	9	7	2	0	3	8	54
ID State U.	0	0	1	1	0	1	0	3	2	22
U. ID	5	3	0	8	7	1	0	0	6	32
Illinois	39	11	68	178	116	62	0	160	243	851
Benedictine U.	0	0	0	0	0	0	0	1	2	13
Chicago Theological Seminary	0	0	0	0	0	0	0	0	0	5
DePaul U.	2	0	0	0	0	0	0	15	0	8
Finch U. of Health Sciences/Chicago Medical School	0	0	0	1	0	1	0	6	0	0
Garrett-Evangelical Theological Seminary	0	0	0	0	0	0	0	0	0	4
IL Institute of Technology	10	0	1	5	1	4	0	10	0	17
IL State U.	0	0	1	0	0	0	0	4	0	48
Institute for Clinical Social Work	0	0	0	0	0	0	0	1	0	8
Loyola U. Chicago	0	0	0	4	4	0	0	25	7	106
Lutheran School of Theology Chicago	0	0	0	0	0	0	0	0	0	4
National-Louis U.	0	0	0	0	0	0	0	0	0	9
Northern IL U.	0	0	2	4	4	0	0	20	9	62
Northwestern U.	4	2	12	33	20	13	0	15	31	99
Roosevelt U.	0	0	0	0	0	0	0	0	0	6

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Rush U.	265	31	11	0	0	0	0	0	0	10	0	10
Southern IL U. Carbondale	124	126	57	5	0	0	1	0	4	11	1	10
U. Chicago	32	332	214	0	0	0	0	0	0	43	0	43
U. IL Chicago	53	225	149	31	3	3	3	8	14	41	0	41
U. IL Springfield	320	3	3	0	0	0	0	0	0	0	0	0
U. IL Urbana-Champaign	4	618	439	146	13	19	55	24	35	114	31	83
Indiana	11	1,082	655	176	32	23	46	27	48	123	26	97
Ball State U.	248	49	13	0	0	0	0	0	0	0	0	0
IN State U.	226	50	17	3	0	0	0	0	3	4	0	4
IN U. Bloomington	45	381	164	1	0	0	0	0	1	31	0	31
IN U.-Purdue U. Indianapolis	356	3	0	0	0	0	0	0	0	0	0	0
Purdue U. main campus	11	464	357	136	20	21	36	18	41	71	26	45
U. of Notre Dame	78	135	104	36	12	2	10	9	3	17	0	17
Iowa	27	503	299	64	8	8	18	12	18	108	32	76
Drake U.	356	11	0	0	0	0	0	0	0	0	0	0
IA State U.	40	228	183	44	7	2	15	6	14	73	32	41
Maharishi U. of Management	356	1	0	0	0	0	0	0	0	0	0	0
St. Ambrose U.	356	2	0	0	0	0	0	0	0	0	0	0
U. IA	72	249	116	20	1	6	3	6	4	35	0	35
U. Northern IA	356	12	0	0	0	0	0	0	0	0	0	0
Kansas	28	414	269	29	2	4	5	6	12	91	40	51
KS State U.	72	145	116	11	0	1	1	2	7	66	40	26
U. KS Main Campus	61	243	134	11	2	3	3	1	2	25	0	25
Wichita State U.	219	26	19	7	0	0	1	3	3	0	0	0
Kentucky	31	372	185	22	5	1	7	3	6	70	8	62
Asbury Theological Seminary	356	2	0	0	0	0	0	0	0	0	0	0
Southern Baptist Theological Seminary	356	50	0	0	0	0	0	0	0	0	0	0
Spalding U.	356	29	0	0	0	0	0	0	0	0	0	0
U. KY	64	209	131	15	2	1	4	3	5	53	8	45
U. Louisville	130	82	54	7	3	0	3	0	1	17	0	17
Louisiana	26	517	287	49	12	12	9	4	12	87	14	73
Grambling State U.	356	9	0	0	0	0	0	0	0	0	0	0
LA State U. Health Sciences Ctr.	271	17	10	0	0	0	0	0	0	10	0	10

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences					Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences	Psychology		
Rush U.	0	0	0	1	0	1	0	0	0	20
Southern IL U. Carbondale	0	0	0	3	2	1	0	21	17	69
U. Chicago	1	3	10	35	22	13	0	8	114	118
U. IL Chicago	6	0	14	27	19	8	0	13	17	76
U. IL Springfield	0	0	0	0	0	0	0	0	3	0
U. IL Urbana-Champaign	16	6	28	65	44	21	0	21	43	179
Indiana	20	8	33	118	85	31	2	61	116	427
Ball State U.	0	0	0	0	0	0	0	6	7	36
IN State U.	2	0	0	1	0	0	1	7	0	33
IN U. Bloomington	10	3	13	32	22	9	1	23	51	217
IN U.-Purdue U. Indianapolis	0	0	0	0	0	0	0	0	0	3
Purdue U. main campus	7	4	17	63	50	13	0	18	41	107
U. of Notre Dame	1	1	3	22	13	9	0	7	17	31
Iowa	5	1	23	35	30	5	0	26	37	204
Drake U.	0	0	0	0	0	0	0	0	0	11
IA State U.	3	1	10	21	17	4	0	11	20	45
Maharishi U. of Management	0	0	0	0	0	0	0	0	0	1
St. Ambrose U.	0	0	0	0	0	0	0	0	0	2
U. IA	2	0	13	14	13	1	0	15	17	133
U. Northern IA	0	0	0	0	0	0	0	0	0	12
Kansas	0	5	7	33	23	10	0	61	43	145
KS State U.	0	1	2	10	6	4	0	13	13	29
U. KS Main Campus	0	4	4	23	17	6	0	37	30	109
Wichita State U.	0	0	1	0	0	0	0	11	0	7
Kentucky	9	1	6	15	12	3	0	32	30	187
Asbury Theological Seminary	0	0	0	0	0	0	0	0	0	2
Southern Baptist Theological Seminary	0	0	0	0	0	0	0	0	0	50
Spalding U.	0	0	0	0	0	0	0	0	0	29
U. KY	4	1	6	11	8	3	0	15	26	78
U. Louisville	5	0	0	4	4	0	0	17	4	28
Louisiana	11	8	11	38	29	9	0	41	42	230
Grambling State U.	0	0	0	0	0	0	0	0	0	9
LA State U. Health Sciences Ctr.	0	0	0	0	0	0	0	0	0	7

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
LA State U. Shreveport	265	11	11	0	0	0	0	0	0	11	0	11
LA State U. and A&M C.	61	211	134	26	9	7	4	3	3	33	14	19
LA Tech U.	242	36	14	10	1	1	2	0	6	0	0	0
New Orleans Baptist Theological Seminary	308	18	4	0	0	0	0	0	0	0	0	0
Northwestern State U.	356	1	0	0	0	0	0	0	0	0	0	0
Southern U. and A&M C. Baton Rouge	299	6	5	0	0	0	0	0	0	0	0	0
Tulane U.	119	106	61	6	2	1	1	0	2	23	0	23
U. LA Lafayette	242	31	14	2	0	0	2	0	0	6	0	6
U. LA Monroe	273	15	9	0	0	0	0	0	0	3	0	3
U. New Orleans	198	56	25	5	0	3	0	1	1	1	0	1
Maine	51	45	37	7	3	1	0	1	2	9	5	4
U. ME	162	45	37	7	3	1	0	1	2	9	5	4
Maryland	14	953	634	139	7	13	48	26	45	182	9	173
Johns Hopkins U., The	26	361	224	43	1	5	5	11	21	89	0	89
Loyola C.	283	8	7	0	0	0	0	0	0	0	0	0
Morgan State U.	299	23	5	5	0	1	3	0	1	0	0	0
U. MD Baltimore	156	61	39	0	0	0	0	0	0	37	0	37
Uniformed Services U. of the Health Sciences	232	19	16	0	0	0	0	0	0	11	0	11
U. MD Baltimore County	113	69	64	14	2	0	8	3	1	3	0	3
U. MD College Park	20	410	277	77	4	7	32	12	22	40	8	32
U. MD Eastern Shore	337	2	2	0	0	0	0	0	0	2	1	1
Massachusetts	6	2,029	1,363	289	41	27	96	32	93	322	9	313
American International C.	320	7	3	0	0	0	0	0	0	0	0	0
Boston C.	132	132	53	1	0	0	0	0	1	6	0	6
Boston U.	52	255	155	18	0	0	6	0	12	54	0	54
Brandeis U.	121	91	60	0	0	0	0	0	0	17	0	17
Clark U.	219	21	19	0	0	0	0	0	0	2	0	2
Harvard U.	17	550	312	8	0	0	2	1	5	108	0	108
MA C. of Pharmacy and Health Sciences	345	2	1	0	0	0	0	0	0	0	0	0
MA Institute of Technology	6	440	402	181	23	17	49	28	64	38	0	38
New England Conservatory of Music	356	5	0	0	0	0	0	0	0	0	0	0
Northeastern U.	106	84	73	27	1	0	19	3	4	10	0	10

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Social sciences	Non-S&E	
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
LA State U. Shreveport	0	0	0	0	0	0	0	0	0	
LA State U. and A&M C.	5	7	5	18	15	3	0	23	17	77
LA Tech U.	0	0	1	0	0	0	0	3	0	22
New Orleans Baptist Theological Seminary	0	0	0	0	0	0	0	4	0	14
Northwestern State U.	0	0	0	0	0	0	0	0	0	1
Southern U. and A&M C. Baton Rouge	0	0	0	0	0	0	0	0	5	1
Tulane U.	3	1	2	12	7	5	0	2	12	45
U. LA Lafayette	3	0	3	0	0	0	0	0	0	17
U. LA Monroe	0	0	0	0	0	0	0	6	0	6
U. New Orleans	0	0	0	8	7	1	0	3	8	31
Maine	1	4	0	6	5	1	0	9	1	8
U. ME	1	4	0	6	5	1	0	9	1	8
Maryland	29	21	23	70	30	40	0	60	110	319
Johns Hopkins U., The	7	5	7	29	13	16	0	5	39	137
Loyola C.	0	0	0	0	0	0	0	7	0	1
Morgan State U.	0	0	0	0	0	0	0	0	0	18
U. MD Baltimore	0	0	0	2	2	0	0	0	0	22
Uniformed Services U. of the Health Sciences	0	1	0	0	0	0	0	4	0	3
U. MD Baltimore County	4	0	4	3	1	2	0	15	21	5
U. MD College Park	18	15	12	36	14	22	0	29	50	133
U. MD Eastern Shore	0	0	0	0	0	0	0	0	0	0
Massachusetts	50	42	58	218	121	95	2	82	302	666
American International C.	0	0	0	0	0	0	0	3	0	4
Boston C.	0	1	0	16	14	2	0	14	15	79
Boston U.	5	5	9	14	5	8	1	15	35	100
Brandeis U.	4	0	4	8	5	3	0	0	27	31
Clark U.	0	0	0	2	1	1	0	3	12	2
Harvard U.	5	11	15	55	26	28	1	10	100	238
MA C. of Pharmacy and Health Sciences	0	0	0	1	1	0	0	0	0	1
MA Institute of Technology	22	22	22	60	24	36	0	0	57	38
New England Conservatory of Music	0	0	0	0	0	0	0	0	0	5
Northeastern U.	2	0	5	11	9	2	0	3	15	11

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Simmons C.	356	4	0	0	0	0	0	0	0	0	0	0
Smith C.	345	4	1	0	0	0	0	0	0	0	0	0
Springfield C. (Springfield, MA)	356	6	0	0	0	0	0	0	0	0	0	0
Suffolk U.	292	6	6	0	0	0	0	0	0	0	0	0
Tufts U.	110	85	67	6	1	2	3	0	0	30	0	30
U. MA Amherst	66	214	127	26	12	1	10	0	3	28	9	19
U. MA Boston	219	30	19	0	0	0	0	0	0	4	0	4
U. MA Dartmouth	345	1	1	1	0	0	1	0	0	0	0	0
U. MA Lowell	198	53	25	11	3	4	3	0	1	2	0	2
U. MA Worcester	210	22	22	0	0	0	0	0	0	22	0	22
Worcester Polytechnic Institute	226	17	17	10	1	3	3	0	3	1	0	1
Michigan	9	1,422	954	248	27	16	65	45	95	200	39	161
Andrews U.	308	34	4	0	0	0	0	0	0	0	0	0
Calvin C.	356	5	0	0	0	0	0	0	0	0	0	0
Central MI U.	236	18	15	0	0	0	0	0	0	0	0	0
Eastern MI U.	356	15	0	0	0	0	0	0	0	0	0	0
MI State U.	23	385	252	33	3	3	11	5	11	83	34	49
MI Technological U.	162	38	37	25	6	2	2	4	11	3	2	1
Oakland U.	265	20	11	10	0	0	0	1	9	0	0	0
U. Detroit Mercy	248	13	13	1	0	1	0	0	0	0	0	0
U. MI Ann Arbor	5	615	426	146	14	6	45	27	54	74	2	72
Wayne State U.	63	193	132	30	4	4	7	5	10	37	1	36
Western MI U.	113	86	64	3	0	0	0	3	0	3	0	3
Minnesota	18	741	425	82	11	6	17	20	28	107	19	88
Hamline U.	292	12	6	0	0	0	0	0	0	0	0	0
Luther Seminary	356	3	0	0	0	0	0	0	0	0	0	0
Mayo School of Health-Related Sciences	201	24	24	2	0	0	0	0	2	22	0	22
St. Mary's U. MN	356	11	0	0	0	0	0	0	0	0	0	0
U. MN Twin Cities	12	561	351	77	11	6	17	20	23	85	19	66
U. of St. Thomas (St. Paul, MN)	356	13	0	0	0	0	0	0	0	0	0	0
Walden U.	150	117	44	3	0	0	0	0	3	0	0	0
Mississippi	33	340	140	16	4	2	4	1	5	36	11	25
Delta State U.	356	1	0	0	0	0	0	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Physics and astronomy		Other physical sciences			
					Chemistry					
Simmons C.	0	0	0	0	0	0	0	0	0	4
Smith C.	0	0	0	0	0	0	0	0	1	3
Springfield C. (Springfield, MA)	0	0	0	0	0	0	0	0	0	6
Suffolk U.	0	0	0	0	0	0	0	6	0	0
Tufts U.	1	0	1	10	7	3	0	3	16	18
U. MA Amherst	7	1	2	28	21	7	0	14	21	87
U. MA Boston	0	2	0	0	0	0	0	10	3	11
U. MA Dartmouth	0	0	0	0	0	0	0	0	0	0
U. MA Lowell	1	0	0	11	6	5	0	0	0	28
U. MA Worcester	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute	3	0	0	2	2	0	0	1	0	0
Michigan	17	15	50	123	74	48	1	128	173	468
Andrews U.	0	0	0	0	0	0	0	4	0	30
Calvin C.	0	0	0	0	0	0	0	0	0	5
Central MI U.	0	0	3	0	0	0	0	12	0	3
Eastern MI U.	0	0	0	0	0	0	0	0	0	15
MI State U.	7	3	12	33	22	11	0	29	52	133
MI Technological U.	2	1	2	4	2	2	0	0	0	1
Oakland U.	0	0	0	1	0	1	0	0	0	9
U. Detroit Mercy	0	0	0	0	0	0	0	11	1	0
U. MI Ann Arbor	4	9	26	59	34	24	1	26	82	189
Wayne State U.	3	0	1	24	16	8	0	22	15	61
Western MI U.	1	2	6	2	0	2	0	24	23	22
Minnesota	19	8	14	52	29	22	1	79	64	316
Hamline U.	0	0	0	0	0	0	0	0	6	6
Luther Seminary	0	0	0	0	0	0	0	0	0	3
Mayo School of Health-Related Sciences	0	0	0	0	0	0	0	0	0	0
St. Mary's U. MN	0	0	0	0	0	0	0	0	0	11
U. MN Twin Cities	18	8	14	52	29	22	1	40	57	210
U. of St. Thomas (St. Paul, MN)	0	0	0	0	0	0	0	0	0	13
Walden U.	1	0	0	0	0	0	0	39	1	73
Mississippi	7	3	6	22	20	1	1	29	21	200
Delta State U.	0	0	0	0	0	0	0	0	0	1

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Jackson State U.	308	31	4	0	0	0	0	0	0	0	0	0
MS State U.	148	92	46	10	1	0	4	0	5	17	11	6
Reformed Theological Seminary	356	1	0	0	0	0	0	0	0	0	0	0
U. MS main campus	169	83	35	4	1	2	0	1	0	5	0	5
U. MS Medical Ctr.	279	15	8	0	0	0	0	0	0	8	0	8
U. Southern MS	146	117	47	2	2	0	0	0	0	6	0	6
Missouri	19	734	435	87	12	12	21	12	30	136	20	116
Concordia Seminary	356	3	0	0	0	0	0	0	0	0	0	0
St. Louis U. main campus	201	107	24	0	0	0	0	0	0	5	0	5
U. MO-Columbia	43	275	166	26	1	3	13	3	6	50	20	30
U. MO-Kansas City	197	62	26	3	0	1	2	0	0	3	0	3
U. MO-Rolla	137	51	51	40	5	7	3	6	19	1	0	1
U. MO-St. Louis	214	45	21	0	0	0	0	0	0	2	0	2
Washington U. St. Louis	55	191	147	18	6	1	3	3	5	75	0	75
Montana	47	74	51	3	2	0	1	0	0	23	9	14
MT State U. Bozeman	187	41	28	3	2	0	1	0	0	12	4	8
U. MT, The	206	33	23	0	0	0	0	0	0	11	5	6
Nebraska	35	303	184	17	0	4	5	1	7	84	28	56
Creighton U.	256	12	12	0	0	0	0	0	0	12	0	12
U. NE Lincoln	54	255	148	17	0	4	5	1	7	56	28	28
U. NE Medical Ctr.	226	23	17	0	0	0	0	0	0	16	0	16
U. NE Omaha	283	13	7	0	0	0	0	0	0	0	0	0
Nevada	41	133	77	13	1	6	2	2	2	20	0	20
U. NV, Las Vegas	279	38	8	3	0	2	0	0	1	2	0	2
U. NV, Reno	107	95	69	10	1	4	2	2	1	18	0	18
New Hampshire	44	122	100	11	1	2	1	2	5	46	0	46
Dartmouth C.	113	67	64	8	0	0	1	2	5	31	0	31
Southern NH U.	356	1	0	0	0	0	0	0	0	0	0	0
U. NH	167	54	36	3	1	2	0	0	0	15	0	15
New Jersey	15	899	584	135	21	17	40	18	39	119	13	106
Drew U.	292	50	6	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U. all campuses	265	11	11	0	0	0	0	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Social sciences	Non-S&E	
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
Jackson State U.	0	1	0	2	2	0	0	0	1	27
MS State U.	1	1	3	3	3	0	0	0	11	46
Reformed Theological Seminary	0	0	0	0	0	0	0	0	0	1
U. MS main campus	3	1	2	3	2	1	0	12	5	48
U. MS Medical Ctr.	0	0	0	0	0	0	0	0	0	7
U. Southern MS	3	0	1	14	13	0	1	17	4	70
Missouri	10	11	11	43	29	14	0	64	73	299
Concordia Seminary	0	0	0	0	0	0	0	0	0	3
St. Louis U. main campus	0	0	2	0	0	0	0	12	5	83
U. MO-Columbia	3	4	3	16	10	6	0	25	39	109
U. MO-Kansas City	0	1	2	2	1	1	0	9	6	36
U. MO-Rolla	1	4	2	3	2	1	0	0	0	0
U. MO-St. Louis	0	0	0	6	5	1	0	7	6	24
Washington U. St. Louis	6	2	2	16	11	5	0	11	17	44
Montana	1	0	6	10	6	4	0	8	0	23
MT State U. Bozeman	1	0	6	6	2	4	0	0	0	13
U. MT, The	0	0	0	4	4	0	0	8	0	10
Nebraska	2	3	4	14	7	7	0	34	26	119
Creighton U.	0	0	0	0	0	0	0	0	0	0
U. NE Lincoln	2	3	4	13	6	7	0	34	19	107
U. NE Medical Ctr.	0	0	0	1	1	0	0	0	0	6
U. NE Omaha	0	0	0	0	0	0	0	0	7	6
Nevada	0	9	0	10	6	4	0	17	8	56
U. NV, Las Vegas	0	1	0	1	0	1	0	0	1	30
U. NV, Reno	0	8	0	9	6	3	0	17	7	26
New Hampshire	5	8	3	18	10	7	1	7	2	22
Dartmouth C.	4	5	3	11	6	5	0	2	0	3
Southern NH U.	0	0	0	0	0	0	0	0	0	1
U. NH	1	3	0	7	4	2	1	5	2	18
New Jersey	20	19	41	83	47	36	0	55	112	315
Drew U.	0	0	0	0	0	0	0	1	5	44
Fairleigh Dickinson U. all campuses	0	0	0	0	0	0	0	11	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
NJ Institute of Technology	153	42	42	24	3	5	10	4	2	0	0	0
Princeton Theological Seminary	356	12	0	0	0	0	0	0	0	0	0	0
Princeton U.	41	258	180	44	12	3	20	3	6	26	0	26
Rutgers, The State U. NJ New Brunswick Campus	25	338	227	47	3	5	7	7	25	51	13	38
Rutgers, The State U. NJ Newark Campus	162	49	37	1	0	0	0	0	1	8	0	8
Seton Hall U.	226	72	17	0	0	0	0	0	0	0	0	0
Stevens Institute of Technology	186	32	29	19	3	4	3	4	5	0	0	0
U. of Medicine and Dentistry NJ	169	35	35	0	0	0	0	0	0	34	0	34
New Mexico	36	254	163	29	3	2	13	4	7	43	11	32
NM Institute of Mining and Technology	292	7	6	1	1	0	0	0	0	0	0	0
NM State U. Main Campus	137	80	51	11	0	0	5	2	4	17	11	6
U. NM all campuses	76	167	106	17	2	2	8	2	3	26	0	26
New York	2	3,413	2,131	300	27	33	88	53	99	588	69	519
Adelphi U.	206	30	23	0	0	0	0	0	0	0	0	0
Albany Medical C.	242	14	14	0	0	0	0	0	0	14	0	14
Alfred U. main campus	273	9	9	8	0	0	0	0	8	0	0	0
CUNY Graduate Ctr.	51	273	156	11	1	0	8	2	0	29	0	29
Clarkson U.	242	14	14	8	2	1	2	2	1	0	0	0
Columbia U. in the City of NY	34	380	203	31	4	5	9	5	8	46	0	46
Cornell U. Endowed Colleges	15	411	336	66	7	9	16	9	25	114	56	58
Cornell U. Medical Campus	206	23	23	0	0	0	0	0	0	23	0	23
Fordham U.	181	81	31	0	0	0	0	0	0	3	0	3
Hofstra U.	210	34	22	0	0	0	0	0	0	0	0	0
Jewish Theological Seminary of America	356	2	0	0	0	0	0	0	0	0	0	0
Juilliard School	356	7	0	0	0	0	0	0	0	0	0	0
Long Island U. Brooklyn Campus	236	16	15	0	0	0	0	0	0	0	0	0
Long Island U. C. W. Post Campus	320	3	3	0	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	187	28	28	1	0	0	0	0	1	27	0	27
NY Medical C.	292	6	6	0	0	0	0	0	0	6	0	6
NY U.	44	371	165	1	0	0	1	0	0	50	0	50
New School U.	141	66	50	0	0	0	0	0	0	0	0	0
Pace U. New York Campus	356	9	0	0	0	0	0	0	0	0	0	0
Polytechnic U.	201	24	24	16	2	4	6	2	2	1	0	1

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
NJ Institute of Technology	4	4	3	7	3	4	0	0	0	0
Princeton Theological Seminary	0	0	0	0	0	0	0	0	0	12
Princeton U.	6	4	22	34	17	17	0	5	39	78
Rutgers, The State U. NJ New Brunswick Campus	9	11	9	28	17	11	0	23	49	111
Rutgers, The State U. NJ Newark Campus	0	0	2	4	4	0	0	3	19	12
Seton Hall U.	0	0	0	5	5	0	0	12	0	55
Stevens Institute of Technology	1	0	5	4	0	4	0	0	0	3
U. of Medicine and Dentistry NJ	0	0	0	1	1	0	0	0	0	0
New Mexico	5	4	8	33	11	22	0	14	27	91
NM Institute of Mining and Technology	0	2	0	3	1	2	0	0	0	1
NM State U. Main Campus	1	0	1	16	5	11	0	5	0	29
U. NM all campuses	4	2	7	14	5	9	0	9	27	61
New York	81	44	93	257	134	119	4	335	433	1,282
Adelphi U.	0	0	0	0	0	0	0	23	0	7
Albany Medical C.	0	0	0	0	0	0	0	0	0	0
Alfred U. main campus	0	1	0	0	0	0	0	0	0	0
CUNY Graduate Ctr.	5	0	6	25	15	10	0	45	35	117
Clarkson U.	0	1	0	5	1	4	0	0	0	0
Columbia U. in the City of NY	11	12	13	19	7	12	0	3	68	177
Cornell U. Endowed Colleges	10	10	21	44	22	22	0	9	62	75
Cornell U. Medical Campus	0	0	0	0	0	0	0	0	0	0
Fordham U.	0	0	0	0	0	0	0	21	7	50
Hofstra U.	0	0	0	0	0	0	0	22	0	12
Jewish Theological Seminary of America	0	0	0	0	0	0	0	0	0	2
Juilliard School	0	0	0	0	0	0	0	0	0	7
Long Island U. Brooklyn Campus	0	0	0	0	0	0	0	15	0	1
Long Island U. C. W. Post Campus	3	0	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0	0	0
NY Medical C.	0	0	0	0	0	0	0	0	0	0
NY U.	6	0	13	12	5	7	0	22	61	206
New School U.	0	0	0	0	0	0	0	21	29	16
Pace U. New York Campus	0	0	0	0	0	0	0	0	0	9
Polytechnic U.	2	0	1	4	4	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Rensselaer Polytechnic Institute	70	136	121	73	9	4	21	17	22	3	0	3
Rochester Institute of Technology	292	6	6	2	0	0	1	0	1	0	0	0
Rockefeller U.	184	31	30	0	0	0	0	0	0	28	0	28
SUNY Albany	80	157	102	0	0	0	0	0	0	12	0	12
SUNY Binghamton	159	81	38	2	0	0	1	0	1	4	0	4
SUNY Buffalo	57	264	142	26	2	7	2	6	9	31	0	31
SUNY C. of Environmental Science & Forestry	184	31	30	1	0	0	0	0	1	20	13	7
SUNY C. of Optometry	356	2	0	0	0	0	0	0	0	0	0	0
SUNY Health Science Ctr. Brooklyn	283	7	7	0	0	0	0	0	0	6	0	6
SUNY Stony Brook main campus	37	265	191	25	0	0	6	6	13	51	0	51
SUNY Upstate Medical U.	279	8	8	0	0	0	0	0	0	7	0	7
St. John's U. (Jamaica, NY)	193	48	27	0	0	0	0	0	0	7	0	7
Syracuse U. main campus	97	114	78	14	0	3	9	2	0	5	0	5
Teachers C. Columbia U.	172	188	34	0	0	0	0	0	0	0	0	0
Union Theological Seminary	356	6	0	0	0	0	0	0	0	0	0	0
U. Rochester	66	192	127	15	0	0	6	2	7	52	0	52
Yeshiva U.	109	76	68	0	0	0	0	0	0	49	0	49
North Carolina	10	1,107	723	146	14	27	29	20	56	271	30	241
Appalachian State U.	356	5	0	0	0	0	0	0	0	0	0	0
Duke U.	46	220	163	28	0	1	8	4	15	60	0	60
East Carolina U.	283	12	7	0	0	0	0	0	0	7	0	7
Fayetteville State U.	356	4	0	0	0	0	0	0	0	0	0	0
NC Agricultural and Technical State U.	320	3	3	3	0	0	1	1	1	0	0	0
NC State U.	21	322	268	92	14	18	17	10	33	82	30	52
Southeastern Baptist Theological Seminary	356	8	0	0	0	0	0	0	0	0	0	0
U. NC Chapel Hill	27	409	223	15	0	8	1	0	6	90	0	90
U. NC Charlotte	265	20	11	7	0	0	2	5	0	2	0	2
U. NC Greensboro	248	69	13	0	0	0	0	0	0	2	0	2
Wake Forest U.	169	35	35	1	0	0	0	0	1	28	0	28
North Dakota	46	90	66	5	0	1	1	0	3	22	8	14
ND State U. main campus	174	33	33	5	0	1	1	0	3	13	8	5
U. ND main campus	174	57	33	0	0	0	0	0	0	9	0	9
Ohio	8	1,589	989	238	46	19	54	36	83	272	30	242

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
Rensselaer Polytechnic Institute	9	2	9	12	6	6	0	0	13	15
Rochester Institute of Technology	0	0	0	4	0	0	4	0	0	0
Rockefeller U.	0	0	0	2	1	1	0	0	0	1
SUNY Albany	6	4	1	10	4	6	0	33	36	55
SUNY Binghamton	3	1	4	4	4	0	0	8	12	43
SUNY Buffalo	5	1	1	28	21	7	0	13	37	122
SUNY C. of Environmental Science & Forestry	0	3	0	6	6	0	0	0	0	1
SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	2
SUNY Health Science Ctr. Brooklyn	0	0	0	0	0	0	0	1	0	0
SUNY Stony Brook main campus	10	8	19	40	15	25	0	18	20	74
SUNY Upstate Medical U.	0	0	0	0	0	0	0	1	0	0
St. John's U. (Jamaica, NY)	0	0	0	4	4	0	0	16	0	21
Syracuse U. main campus	5	0	2	9	6	3	0	11	32	36
Teachers C. Columbia U.	0	0	0	0	0	0	0	27	7	154
Union Theological Seminary	0	0	0	0	0	0	0	0	0	6
U. Rochester	6	1	3	29	13	16	0	8	13	65
Yeshiva U.	0	0	0	0	0	0	0	18	1	8
North Carolina	24	15	46	94	61	31	2	46	81	384
Appalachian State U.	0	0	0	0	0	0	0	0	0	5
Duke U.	6	4	11	20	12	8	0	10	24	57
East Carolina U.	0	0	0	0	0	0	0	0	0	5
Fayetteville State U.	0	0	0	0	0	0	0	0	0	4
NC Agricultural and Technical State U.	0	0	0	0	0	0	0	0	0	0
NC State U.	4	3	27	26	14	10	2	10	24	54
Southeastern Baptist Theological Seminary	0	0	0	0	0	0	0	0	0	8
U. NC Chapel Hill	13	8	7	42	32	10	0	15	33	186
U. NC Charlotte	1	0	1	0	0	0	0	0	0	9
U. NC Greensboro	0	0	0	0	0	0	0	11	0	56
Wake Forest U.	0	0	0	6	3	3	0	0	0	0
North Dakota	3	1	1	19	17	2	0	15	0	24
ND State U. main campus	3	0	1	11	10	1	0	0	0	0
U. ND main campus	0	1	0	8	7	1	0	15	0	24
Ohio	13	22	30	165	106	57	2	135	114	600

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Air Force Institute of Technology	248	13	13	11	0	0	5	0	6	0	0	0
Antioch U. all campuses	308	4	4	0	0	0	0	0	0	0	0	0
Bowling Green State U. main campus	141	88	50	0	0	0	0	0	0	10	0	10
Case Western Reserve U.	68	165	125	47	7	1	6	9	24	45	0	45
Cleveland Institute of Music	356	2	0	0	0	0	0	0	0	0	0	0
Cleveland State U.	219	35	19	10	0	1	1	2	6	5	0	5
Hebrew Union C.-Jewish Institute of Religion	356	3	0	0	0	0	0	0	0	0	0	0
Kent State U. main campus	123	123	58	0	0	0	0	0	0	16	0	16
Medical C. OH	256	12	12	0	0	0	0	0	0	12	0	12
Miami U. Oxford	181	43	31	0	0	0	0	0	0	7	0	7
OH State U. main campus	13	575	350	60	7	7	18	8	20	115	30	85
OH U. main campus	141	109	50	11	4	0	2	2	3	15	0	15
U. Akron main campus	103	82	74	25	17	4	2	1	1	2	0	2
U. Cincinnati main campus	59	232	137	43	9	5	11	8	10	33	0	33
U. Dayton	236	21	15	12	0	0	3	3	6	1	0	1
U. Toledo	159	65	38	14	2	1	4	2	5	4	0	4
Wright State U. main campus	248	13	13	5	0	0	2	1	2	7	0	7
Youngstown State U.	356	4	0	0	0	0	0	0	0	0	0	0
Oklahoma	32	360	190	39	7	5	10	7	10	43	17	26
OK State U. main campus	84	182	96	15	2	0	8	1	4	27	17	10
U. OK Norman Campus	97	158	78	18	1	5	2	5	5	16	0	16
U. Tulsa	232	20	16	6	4	0	0	1	1	0	0	0
Oregon	29	383	256	32	2	5	10	3	12	94	31	63
OR Health and Science U.	201	26	24	3	0	1	2	0	0	19	0	19
OR State U.	65	169	128	23	2	4	5	2	10	62	30	32
Portland State U.	201	32	24	6	0	0	3	1	2	1	1	0
U. OR	96	156	80	0	0	0	0	0	0	12	0	12
Pennsylvania	7	2,013	1,219	355	61	36	65	54	139	277	21	256
Bryn Mawr C.	279	15	8	0	0	0	0	0	0	1	0	1
Carnegie-Mellon U.	58	163	141	81	19	7	25	11	19	6	0	6
Drexel U.	97	90	78	35	3	9	9	4	10	18	0	18
Duquesne U.	225	34	18	0	0	0	0	0	0	3	0	3
Gannon U.	337	2	2	0	0	0	0	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
Air Force Institute of Technology	0	0	1	1	0	1	0	0	0	0
Antioch U. all campuses	0	3	0	1	0	0	1	0	0	0
Bowling Green State U. main campus	0	0	2	10	10	0	0	19	9	38
Case Western Reserve U.	4	0	4	16	11	5	0	1	8	40
Cleveland Institute of Music	0	0	0	0	0	0	0	0	0	2
Cleveland State U.	0	0	0	1	1	0	0	0	3	16
Hebrew Union C.-Jewish Institute of Religion	0	0	0	0	0	0	0	0	0	3
Kent State U. main campus	0	1	1	13	9	4	0	19	8	65
Medical C. OH	0	0	0	0	0	0	0	0	0	0
Miami U. Oxford	0	1	0	4	4	0	0	14	5	12
OH State U. main campus	6	13	14	59	30	29	0	26	57	225
OH U. main campus	0	0	2	7	3	4	0	15	0	59
U. Akron main campus	0	0	0	24	19	4	1	18	5	8
U. Cincinnati main campus	2	4	5	19	14	5	0	13	18	95
U. Dayton	0	0	0	2	1	1	0	0	0	6
U. Toledo	0	0	1	8	4	4	0	10	1	27
Wright State U. main campus	1	0	0	0	0	0	0	0	0	0
Youngstown State U.	0	0	0	0	0	0	0	0	0	4
Oklahoma	1	19	4	21	15	6	0	42	21	170
OK State U. main campus	1	9	2	12	10	2	0	21	9	86
U. OK Norman Campus	0	7	2	9	5	4	0	14	12	80
U. Tulsa	0	3	0	0	0	0	0	7	0	4
Oregon	7	13	8	26	14	12	0	19	57	127
OR Health and Science U.	2	0	0	0	0	0	0	0	0	2
OR State U.	1	7	2	18	12	6	0	2	13	41
Portland State U.	1	3	1	0	0	0	0	3	9	8
U. OR	3	3	5	8	2	6	0	14	35	76
Pennsylvania	58	28	52	134	89	43	2	142	173	794
Bryn Mawr C.	0	0	0	0	0	0	0	2	5	7
Carnegie-Mellon U.	19	0	9	13	5	8	0	3	10	22
Drexel U.	3	1	1	8	6	2	0	12	0	12
Duquesne U.	0	0	0	2	2	0	0	13	0	16
Gannon U.	0	0	0	0	0	0	0	2	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
Indiana U. PA main campus	265	66	11	0	0	0	0	0	0	0	0	0
Lehigh U.	97	98	78	47	15	9	4	8	11	8	0	8
Marywood U.	256	14	12	0	0	0	0	0	0	0	0	0
PA State U. main campus	9	550	377	129	12	10	18	23	66	91	21	70
Temple U.	110	167	67	0	0	0	0	0	0	14	0	14
Thomas Jefferson U.	214	21	21	1	0	0	0	0	1	20	0	20
U. PA	31	384	217	32	6	0	3	4	19	73	0	73
U. Pittsburgh main campus	38	348	185	30	6	1	6	4	13	43	0	43
U. of the Sciences Philadelphia	320	4	3	0	0	0	0	0	0	0	0	0
Villanova U.	345	5	1	0	0	0	0	0	0	0	0	0
Westminster Theological Seminary	356	11	0	0	0	0	0	0	0	0	0	0
Widener U. PA Campus	356	41	0	0	0	0	0	0	0	0	0	0
Rhode Island	37	215	142	18	3	0	5	2	8	31	2	29
Brown U.	84	143	96	10	0	0	2	2	6	23	0	23
Salve Regina U.	356	3	0	0	0	0	0	0	0	0	0	0
U. RI	148	69	46	8	3	0	3	0	2	8	2	6
South Carolina	30	376	181	36	6	5	9	5	11	47	7	40
Clemson U.	102	93	76	23	2	2	6	3	10	23	7	16
Medical U. SC	232	19	16	0	0	0	0	0	0	15	0	15
SC State U.	345	29	1	1	0	0	0	0	1	0	0	0
U. SC Columbia	93	235	88	12	4	3	3	2	0	9	0	9
South Dakota	48	74	33	5	0	1	0	0	4	13	5	8
SD School of Mines and Technology	283	7	7	4	0	0	0	0	4	0	0	0
SD State U.	256	12	12	1	0	1	0	0	0	8	5	3
U. SD	242	55	14	0	0	0	0	0	0	5	0	5
Tennessee	22	650	340	64	6	4	14	13	27	111	3	108
East TN State U.	299	38	5	0	0	0	0	0	0	5	0	5
Meharry Medical C.	283	7	7	0	0	0	0	0	0	7	0	7
Mid-America Baptist Theological Seminary	356	7	0	0	0	0	0	0	0	0	0	0
Middle TN State U.	345	8	1	0	0	0	0	0	0	0	0	0
TN State U.	256	36	12	0	0	0	0	0	0	0	0	0
TN Technological U.	271	15	10	7	0	1	1	5	0	1	0	1
U. Memphis, The	154	88	41	4	0	0	1	1	2	6	0	6

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
Indiana U. PA main campus	0	0	0	0	0	0	0	0	11	55
Lehigh U.	3	1	6	7	4	3	0	5	1	20
Marywood U.	0	0	0	0	0	0	0	11	1	2
PA State U. main campus	8	19	11	43	24	17	2	35	41	173
Temple U.	4	0	6	5	4	1	0	24	14	100
Thomas Jefferson U.	0	0	0	0	0	0	0	0	0	0
U. PA	12	4	7	26	20	6	0	7	56	167
U. Pittsburgh main campus	9	3	12	26	20	6	0	28	34	163
U. of the Sciences Philadelphia	0	0	0	3	3	0	0	0	0	1
Villanova U.	0	0	0	1	1	0	0	0	0	4
Westminster Theological Seminary	0	0	0	0	0	0	0	0	0	11
Widener U. PA Campus	0	0	0	0	0	0	0	0	0	41
Rhode Island	4	5	19	23	13	10	0	15	27	73
Brown U.	4	0	15	21	11	10	0	2	21	47
Salve Regina U.	0	0	0	0	0	0	0	0	0	3
U. RI	0	5	4	2	2	0	0	13	6	23
South Carolina	2	5	6	40	37	3	0	21	24	195
Clemson U.	1	2	3	15	13	2	0	0	9	17
Medical U. SC	0	0	0	1	1	0	0	0	0	3
SC State U.	0	0	0	0	0	0	0	0	0	28
U. SC Columbia	1	3	3	24	23	1	0	21	15	147
South Dakota	0	1	0	3	1	0	2	9	2	41
SD School of Mines and Technology	0	1	0	2	0	0	2	0	0	0
SD State U.	0	0	0	1	1	0	0	0	2	0
U. SD	0	0	0	0	0	0	0	9	0	41
Tennessee	9	4	9	35	21	13	1	69	39	310
East TN State U.	0	0	0	0	0	0	0	0	0	33
Meharry Medical C.	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theological Seminary	0	0	0	0	0	0	0	0	0	7
Middle TN State U.	0	0	0	0	0	0	0	0	1	7
TN State U.	0	0	0	0	0	0	0	11	1	24
TN Technological U.	0	1	0	1	0	0	1	0	0	5
U. Memphis, The	2	0	2	2	2	0	0	24	1	47

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
U. TN Health Science Ctr.	206	46	23	1	0	0	0	0	1	21	0	21
U. TN Knoxville	71	216	117	28	4	3	4	2	15	27	3	24
Vanderbilt U.	69	189	124	24	2	0	8	5	9	44	0	44
Texas	3	2,572	1,548	369	59	55	119	49	87	450	67	383
Baylor C. of Dentistry	356	2	0	0	0	0	0	0	0	0	0	0
Baylor C. of Medicine	124	58	57	2	1	0	0	0	1	55	0	55
Baylor U.	242	56	14	0	0	0	0	0	0	3	0	3
Dallas Theological Seminary	356	13	0	0	0	0	0	0	0	0	0	0
Lamar U.	337	2	2	2	0	0	0	1	1	0	0	0
Rice U.	95	105	83	16	5	0	4	1	6	12	0	12
Sam Houston State U.	283	7	7	0	0	0	0	0	0	0	0	0
Southern Methodist U.	155	41	40	17	0	0	7	7	3	1	0	1
Southwest TX State U.	345	1	1	0	0	0	0	0	0	0	0	0
Southwestern Baptist Theological Seminary	337	36	2	0	0	0	0	0	0	0	0	0
St. Mary's U. (San Antonio, TX)	292	6	6	0	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	337	2	2	0	0	0	0	0	0	2	2	0
TX A&M U. Commerce	345	40	1	0	0	0	0	0	0	0	0	0
TX A&M U. Corpus Christi	356	9	0	0	0	0	0	0	0	0	0	0
TX A&M U. Kingsville	320	23	3	0	0	0	0	0	0	3	3	0
TX A&M U. main campus	10	487	361	117	19	17	33	19	29	106	49	57
TX Christian U.	236	25	15	0	0	0	0	0	0	0	0	0
TX Southern U.	308	22	4	0	0	0	0	0	0	2	0	2
TX Tech U.	89	165	90	18	3	1	4	3	7	31	13	18
TX Tech U. Health Science Ctr.	299	6	5	0	0	0	0	0	0	5	0	5
TX Woman's U.	187	74	28	0	0	0	0	0	0	2	0	2
U. Dallas	320	7	3	0	0	0	0	0	0	0	0	0
U. Houston	80	190	102	15	7	2	2	1	3	18	0	18
U. North TX	117	145	62	4	0	0	0	0	4	4	0	4
U. North TX Health Science Ctr. Ft. Worth	273	9	9	0	0	0	0	0	0	9	0	9
U. TX Arlington	144	68	48	24	0	5	11	3	5	3	0	3
U. TX Austin	7	674	392	134	23	26	52	14	19	50	0	50
U. TX Dallas	156	61	39	6	0	0	4	0	2	9	0	9
U. TX Dental Branch	137	77	51	1	1	0	0	0	0	49	0	49

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences				Psychology	Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences			
U. TN Health Science Ctr.	0	0	0	1	1	0	0	0	0	23
U. TN Knoxville	2	3	2	18	12	6	0	20	17	99
Vanderbilt U.	5	0	5	13	6	7	0	14	19	65
Texas	47	56	51	169	102	66	1	192	214	1,024
Baylor C. of Dentistry	0	0	0	0	0	0	0	0	0	2
Baylor C. of Medicine	0	0	0	0	0	0	0	0	0	1
Baylor U.	0	2	3	3	2	1	0	1	2	42
Dallas Theological Seminary	0	0	0	0	0	0	0	0	0	13
Lamar U.	0	0	0	0	0	0	0	0	0	0
Rice U.	4	2	10	20	12	8	0	3	16	22
Sam Houston State U.	0	0	0	0	0	0	0	0	7	0
Southern Methodist U.	3	4	2	2	1	1	0	2	9	1
Southwest TX State U.	0	0	0	0	0	0	0	0	1	0
Southwestern Baptist Theological Seminary	0	0	0	0	0	0	0	2	0	34
St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	6	0	0
Stephen F. Austin State U.	0	0	0	0	0	0	0	0	0	0
TX A&M U. Commerce	0	0	0	0	0	0	0	1	0	39
TX A&M U. Corpus Christi	0	0	0	0	0	0	0	0	0	9
TX A&M U. Kingsville	0	0	0	0	0	0	0	0	0	20
TX A&M U. main campus	9	10	8	38	33	5	0	26	47	126
TX Christian U.	0	1	0	5	0	5	0	9	0	10
TX Southern U.	0	1	0	1	0	0	1	0	0	18
TX Tech U.	1	5	3	5	3	2	0	23	4	75
TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	1
TX Woman's U.	0	0	0	0	0	0	0	24	2	46
U. Dallas	0	0	0	0	0	0	0	0	3	4
U. Houston	1	1	3	19	17	2	0	29	16	88
U. North TX	9	8	2	8	5	3	0	18	9	83
U. North TX Health Science Ctr. Ft. Worth	0	0	0	0	0	0	0	0	0	0
U. TX Arlington	1	1	3	7	3	4	0	0	9	20
U. TX Austin	12	12	16	53	22	31	0	32	83	282
U. TX Dallas	5	4	1	6	3	3	0	3	5	22
U. TX Dental Branch	0	0	0	0	0	0	0	1	0	26

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
U. TX El Paso	210	28	22	11	0	3	2	0	6	1	0	1
U. TX Health Science Ctr. San Antonio	219	19	19	0	0	0	0	0	0	18	0	18
U. TX Medical Branch	193	35	27	0	0	0	0	0	0	27	0	27
U. TX San Antonio	308	7	4	0	0	0	0	0	0	2	0	2
U. TX Southwestern Medical Ctr. Dallas	144	48	48	2	0	1	0	0	1	38	0	38
U. TX-Pan American	356	5	0	0	0	0	0	0	0	0	0	0
U. of the Incarnate Word	345	19	1	0	0	0	0	0	0	0	0	0
Utah	34	336	239	48	6	13	8	8	13	71	10	61
Brigham Young U. main campus	178	53	32	4	2	0	1	1	0	4	0	4
U. UT	48	224	160	30	4	5	5	7	9	51	0	51
UT State U.	146	59	47	14	0	8	2	0	4	16	10	6
Vermont	50	47	29	1	0	1	0	0	0	15	6	9
Middlebury C.	345	9	1	0	0	0	0	0	0	0	0	0
U. VT	187	38	28	1	0	1	0	0	0	15	6	9
Virginia	12	1,009	620	158	14	16	44	34	50	112	15	97
C. of William and Mary	187	56	28	0	0	0	0	0	0	4	0	4
George Mason U.	76	152	106	11	0	0	7	0	4	7	0	7
Hampton U.	320	5	3	0	0	0	0	0	0	0	0	0
Norfolk State U.	356	2	0	0	0	0	0	0	0	0	0	0
Old Dominion U.	129	65	55	18	0	2	5	7	4	10	0	10
Regent U.	356	14	0	0	0	0	0	0	0	0	0	0
U. VA main campus	47	337	161	39	7	2	9	4	17	32	0	32
Union Theological Seminary & Presbyterian School of Christian Ed.	356	6	0	0	0	0	0	0	0	0	0	0
VA Commonwealth U.	107	111	69	3	1	0	0	1	1	33	0	33
VA Polytechnic Institute & State U.	36	261	198	87	6	12	23	22	24	26	15	11
Washington	21	651	441	88	8	11	31	9	29	130	19	111
Gonzaga U.	320	15	3	0	0	0	0	0	0	0	0	0
Seattle Pacific U.	320	10	3	0	0	0	0	0	0	0	0	0
Seattle U.	356	7	0	0	0	0	0	0	0	0	0	0
U. WA	14	493	345	74	7	6	27	9	25	100	12	88
WA State U.	89	126	90	14	1	5	4	0	4	30	7	23
West Virginia	40	156	101	22	1	5	4	3	9	38	11	27
Marshall U. Graduate C.	337	10	2	0	0	0	0	0	0	2	0	2

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences					Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences	Psychology		
U. TX El Paso	0	5	0	1	1	0	0	4	0	6
U. TX Health Science Ctr. San Antonio	0	0	0	1	0	1	0	0	0	0
U. TX Medical Branch	0	0	0	0	0	0	0	0	0	8
U. TX San Antonio	2	0	0	0	0	0	0	0	0	3
U. TX Southwestern Medical Ctr. Dallas	0	0	0	0	0	0	0	8	0	0
U. TX-Pan American	0	0	0	0	0	0	0	0	0	5
U. of the Incarnate Word	0	0	0	0	0	0	0	0	1	18
Utah	7	8	4	40	27	13	0	38	23	97
Brigham Young U. main campus	0	0	1	5	3	2	0	14	4	21
U. UT	7	5	3	33	24	9	0	20	11	64
UT State U.	0	3	0	2	0	2	0	4	8	12
Vermont	0	1	0	2	2	0	0	9	1	18
Middlebury C.	0	0	0	0	0	0	0	0	1	8
U. VT	0	1	0	2	2	0	0	9	0	10
Virginia	46	31	16	79	39	36	4	86	92	389
C. of William and Mary	5	8	0	7	2	5	0	1	3	28
George Mason U.	28	6	0	1	0	0	1	17	36	46
Hampton U.	0	0	0	3	0	3	0	0	0	2
Norfolk State U.	0	0	0	0	0	0	0	0	0	2
Old Dominion U.	6	2	2	6	0	6	0	2	9	10
Regent U.	0	0	0	0	0	0	0	0	0	14
U. VA main campus	6	9	10	30	15	15	0	15	20	176
Union Theological Seminary & Presbyterian School of Christian Ed.	0	0	0	0	0	0	0	0	0	6
VA Commonwealth U.	0	0	0	11	10	1	0	18	4	42
VA Polytechnic Institute & State U.	1	6	4	21	12	6	3	33	20	63
Washington	19	23	14	56	35	21	0	37	74	210
Gonzaga U.	0	0	0	0	0	0	0	1	2	12
Seattle Pacific U.	0	0	0	0	0	0	0	3	0	7
Seattle U.	0	0	0	0	0	0	0	0	0	7
U. WA	18	20	12	48	31	17	0	23	50	148
WA State U.	1	3	2	8	4	4	0	10	22	36
West Virginia	0	1	1	10	6	4	0	16	13	55
Marshall U. Graduate C.	0	0	0	0	0	0	0	0	0	8

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	S&E rank	All fields	Total S&E	Engineering						Biological and agricultural sciences		
				Total	Chemical	Civil	Electrical	Mechanical	Other	Total	Agricultural	Biological
WV U.	83	146	99	22	1	5	4	3	9	36	11	25
Wisconsin	16	819	535	109	12	19	27	20	31	183	42	141
Cardinal Stritch U.	356	21	0	0	0	0	0	0	0	0	0	0
Marquette U.	236	44	15	5	0	1	0	2	2	4	0	4
Medical C. WI	232	16	16	0	0	0	0	0	0	16	0	16
U. WI Madison	3	653	445	96	12	17	24	16	27	159	42	117
U. WI Milwaukee	122	85	59	8	0	1	3	2	2	4	0	4
Wyoming	49	56	43	4	2	1	0	1	0	17	4	13
U. WY	152	56	43	4	2	1	0	1	0	17	4	13
Puerto Rico	45	94	80	3	2	1	0	0	0	17	0	17
Carlos Albizu U. (San Juan, PR)	210	22	22	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. PR, The	299	5	5	0	0	0	0	0	0	0	0	0
U. PR Mayaguez Campus	256	12	12	3	2	1	0	0	0	0	0	0
U. PR Medical Sciences Campus	308	4	4	0	0	0	0	0	0	4	0	4
U. PR Rio Piedras Campus	172	48	34	0	0	0	0	0	0	10	0	10

TABLE 12. Doctorates awarded, by state, institution, and major field: 2003

State and Institution	Earth			Physical sciences					Social sciences	Non-S&E
	Computer sciences	atmospheric and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other physical sciences	Psychology		
WV U.	0	1	1	10	6	4	0	16	13	47
Wisconsin	10	20	21	60	39	19	2	50	82	284
Cardinal Stritch U.	0	0	0	0	0	0	0	0	0	21
Marquette U.	0	0	0	2	2	0	0	4	0	29
Medical C. WI	0	0	0	0	0	0	0	0	0	0
U. WI Madison	10	18	17	50	32	16	2	29	66	208
U. WI Milwaukee	0	2	4	8	5	3	0	17	16	26
Wyoming	0	5	3	10	8	2	0	3	1	13
U. WY	0	5	3	10	8	2	0	3	1	13
Puerto Rico	0	9	0	6	5	1	0	45	0	14
Carlos Albizu U. (San Juan, PR)	0	0	0	0	0	0	0	22	0	0
Pontifical Catholic U. PR, The	0	0	0	0	0	0	0	5	0	0
U. PR Mayaguez Campus	0	9	0	0	0	0	0	0	0	0
U. PR Medical Sciences Campus	0	0	0	0	0	0	0	0	0	0
U. PR Rio Piedras Campus	0	0	0	6	5	1	0	18	0	14

NOTE: Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields. Non-S&E includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 13. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2003

Field of study	Definite plans								
	All recipients	In the United States						Abroad	Location unknown
		Total	Total U.S.	Postdoc study	Academic employment	Industry employment	Other ¹		
All recipients	40,710	26,167	23,399	7,784	8,463	3,219	3,933	2,683	85
Science and engineering	25,258	16,356	14,436	6,988	3,264	2,676	1,508	1,863	57
Engineering	5,265	3,132	2,630	890	377	1,086	277	486	16
Aeronautical/astronautical	199	112	98	41	11	25	21	14	0
Chemical engineering	643	426	358	145	18	186	9	67	1
Civil engineering	672	372	293	94	58	106	35	76	3
Electrical engineering	1,463	890	756	179	120	388	69	129	5
Industrial	211	122	88	10	36	27	15	34	0
Materials/metallurgical engineering	473	300	249	124	16	84	25	49	2
Mechanical engineering	814	465	399	140	55	166	38	62	4
Other engineering	790	445	389	157	63	104	65	55	1
Sciences	19,993	13,224	11,806	6,098	2,887	1,590	1,231	1,377	41
Agricultural science	922	583	443	200	98	84	61	139	1
Biological science	5,694	3,831	3,573	2,837	330	223	183	244	14
Computer science	866	558	501	103	232	132	34	56	1
Earth, atmospheric, and ocean sciences	783	532	469	240	89	71	69	60	3
Mathematics	994	692	585	258	226	76	25	105	2
Physical sciences	3,320	2,246	2,050	1,273	175	502	100	187	9
Astronomy	167	129	117	87	13	8	9	12	0
Chemistry	2,037	1,413	1,325	792	102	383	48	80	8
Physics	1,080	688	595	390	57	108	40	93	0
Other physical sciences	36	16	13	4	3	3	3	2	1
Psychology	3,275	2,058	1,993	844	479	271	399	64	1
Social sciences	4,139	2,724	2,192	343	1,258	231	360	522	10
Non-S&E	15,452	9,811	8,963	796	5,199	543	2,425	820	28
U.S. citizens	26,413	18,335	17,804	5,043	7,011	2,064	3,686	486	45
Science and engineering	14,571	10,178	9,818	4,388	2,484	1,600	1,346	333	27
Engineering	1,898	1,274	1,230	312	200	476	242	39	5
Aeronautical/astronautical	70	48	47	13	6	8	20	1	0
Chemical engineering	272	190	178	62	14	94	8	11	1
Civil engineering	239	161	153	33	41	51	28	7	1
Electrical engineering	403	278	273	39	46	132	56	4	1
Industrial	54	42	42	4	11	12	15	0	0
Materials/metallurgical engineering	176	111	104	31	7	46	20	6	1
Mechanical engineering	287	181	176	38	28	76	34	4	1
Other engineering	397	263	257	92	47	57	61	6	0
Sciences	12,673	8,904	8,588	4,076	2,284	1,124	1,104	294	22
Agricultural science	443	312	306	92	91	65	58	6	0
Biological science	3,782	2,684	2,594	1,972	279	179	164	82	8
Computer science	384	268	257	38	124	63	32	11	0

TABLE 13. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2003

Field of study	All recipients	Definite plans							Abroad	Location unknown
		In the United States					Other ¹			
		Total U.S.	Postdoc study	Academic employment	Industry employment					
Earth, atmospheric, and ocean sciences	474	343	324	143	79	44	58	18	1	
Mathematics	470	349	331	122	147	41	21	18	0	
Physical sciences	1,815	1,294	1,236	695	141	313	87	53	5	
Astronomy	125	98	93	66	12	6	9	5	0	
Chemistry	1,169	858	827	453	84	251	39	27	4	
Physics	500	325	304	173	42	53	36	21	0	
Other physical sciences	21	13	12	3	3	3	3	0	1	
Psychology	2,776	1,883	1,856	771	440	261	384	26	1	
Social sciences	2,529	1,771	1,684	243	983	158	300	80	7	
Non-S&E	11,842	8,157	7,986	655	4,527	464	2,340	153	18	
Non-U.S. citizens with permanent visas	1,631	1,004	932	293	328	227	84	66	6	
Science and engineering	1,098	685	651	274	127	205	45	29	5	
Engineering	265	169	167	34	19	107	7	1	1	
Aeronautical/astronautical	10	8	8	1	1	5	1	0	0	
Chemical engineering	20	13	13	6	0	7	0	0	0	
Civil engineering	30	19	19	1	2	15	1	0	0	
Electrical engineering	91	61	60	8	4	46	2	1	0	
Industrial	16	8	8	1	3	4	0	0	0	
Materials/metallurgical engineering	24	18	18	8	2	6	2	0	0	
Mechanical engineering	45	28	27	3	6	17	1	0	1	
Other engineering	29	14	14	6	1	7	0	0	0	
Sciences	833	516	484	240	108	98	38	28	4	
Agricultural science	34	16	14	10	0	3	1	2	0	
Biological science	265	171	163	130	17	10	6	7	1	
Computer science	56	33	33	6	10	16	1	0	0	
Earth, atmospheric, and ocean sciences	38	24	24	11	2	8	3	0	0	
Mathematics	46	28	26	10	11	3	2	1	1	
Physical sciences	151	95	93	39	9	42	3	2	0	
Astronomy	5	4	3	2	1	0	0	1	0	
Chemistry	93	59	58	24	4	28	2	1	0	
Physics	52	32	32	13	4	14	1	0	0	
Other physical sciences	1	0	0	0	0	0	0	0	0	
Psychology	70	38	35	15	8	5	7	3	0	
Social sciences	173	111	96	19	51	11	15	13	2	
Non-S&E	533	319	281	19	201	22	39	37	1	
Non-U.S. citizens with temporary visas	10,585	6,782	4,632	2,439	1,112	925	156	2,123	27	
Science and engineering	8,388	5,468	3,950	2,319	650	869	112	1,496	22	
Engineering	2,909	1,683	1,229	543	157	503	26	445	9	
Aeronautical/astronautical	111	56	43	27	4	12	0	13	0	

TABLE 13. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2003

Field of study	All recipients	Definite plans							Abroad	Location unknown
		In the United States					Other ¹			
		Total U.S.	Postdoc study	Academic employment	Industry employment					
Chemical engineering	337	223	167	77	4	85	1	56	0	
Civil engineering	386	192	121	60	15	40	6	69	2	
Electrical engineering	920	547	421	131	70	210	10	123	3	
Industrial	137	72	38	5	22	11	0	34	0	
Materials/metallurgical engineering	259	171	127	85	7	32	3	43	1	
Mechanical engineering	447	255	195	99	21	73	2	58	2	
Other engineering	312	167	117	59	14	40	4	49	1	
Sciences	5,479	3,785	2,721	1,776	493	366	86	1,051	13	
Agricultural science	392	255	123	98	7	16	2	131	1	
Biological science	1,401	971	812	731	34	34	13	155	4	
Computer science	379	256	210	59	98	52	1	45	1	
Earth, atmospheric, and ocean sciences	228	163	120	85	8	19	8	41	2	
Mathematics	440	313	227	126	68	32	1	86	0	
Physical sciences	1,224	854	718	539	25	146	8	132	4	
Astronomy	34	27	21	19	0	2	0	6	0	
Chemistry	689	493	437	315	14	103	5	52	4	
Physics	494	331	259	204	11	41	3	72	0	
Other physical sciences	7	3	1	1	0	0	0	2	0	
Psychology	197	135	101	57	31	5	8	34	0	
Social sciences	1,218	838	410	81	222	62	45	427	1	
Non-S&E	2,197	1,314	682	120	462	56	44	627	5	

¹ Other includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTE: Persons with unknown citizenship are included in the total but are not shown separately. Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields. Non-S&E includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2003
(Percent distribution)

Field of study	Definite plans	In the United States					Other ¹	Abroad	Location unknown
		Total U.S.	Postdoc study	Academic employment	Industry employment				
All recipients	100.0	89.4	29.7	32.3	12.3	15.0	10.3	0.3	
Science and engineering	100.0	88.3	42.7	20.0	16.4	9.2	11.4	0.3	
Engineering	100.0	84.0	28.4	12.0	34.7	8.8	15.5	0.5	
Aeronautical/astronautical	100.0	87.5	36.6	9.8	22.3	18.8	12.5	0.0	
Chemical engineering	100.0	84.0	34.0	4.2	43.7	2.1	15.7	0.2	
Civil engineering	100.0	78.8	25.3	15.6	28.5	9.4	20.4	0.8	
Electrical engineering	100.0	84.9	20.1	13.5	43.6	7.8	14.5	0.6	
Industrial	100.0	72.1	8.2	29.5	22.1	12.3	27.9	0.0	
Materials/metallurgical engineering	100.0	83.0	41.3	5.3	28.0	8.3	16.3	0.7	
Mechanical engineering	100.0	85.8	30.1	11.8	35.7	8.2	13.3	0.9	
Other engineering	100.0	87.4	35.3	14.2	23.4	14.6	12.4	0.2	
Sciences	100.0	89.3	46.1	21.8	12.0	9.3	10.4	0.3	
Agricultural science	100.0	76.0	34.3	16.8	14.4	10.5	23.8	0.2	
Biological science	100.0	93.3	74.1	8.6	5.8	4.8	6.4	0.4	
Computer science	100.0	89.8	18.5	41.6	23.7	6.1	10.0	0.2	
Earth, atmospheric, and ocean sciences	100.0	88.2	45.1	16.7	13.3	13.0	11.3	0.6	
Mathematics	100.0	84.5	37.3	32.7	11.0	3.6	15.2	0.3	
Physical sciences	100.0	91.3	56.7	7.8	22.4	4.5	8.3	0.4	
Astronomy	100.0	90.7	67.4	10.1	6.2	7.0	9.3	0.0	
Chemistry	100.0	93.8	56.1	7.2	27.1	3.4	5.7	0.6	
Physics	100.0	86.5	56.7	8.3	15.7	5.8	13.5	0.0	
Other physical sciences	100.0	81.3	25.0	18.8	18.8	18.8	12.5	6.3	
Psychology	100.0	96.8	41.0	23.3	13.2	19.4	3.1	0.0	
Social sciences	100.0	80.5	12.6	46.2	8.5	13.2	19.2	0.4	
Non-S&E	100.0	91.4	8.1	53.0	5.5	24.7	8.4	0.3	
U.S. citizens	100.0	97.1	27.5	38.2	11.3	20.1	2.7	0.2	
Science and engineering	100.0	96.5	43.1	24.4	15.7	13.2	3.3	0.3	
Engineering	100.0	96.5	24.5	15.7	37.4	19.0	3.1	0.4	
Aeronautical/astronautical	100.0	97.9	27.1	12.5	16.7	41.7	2.1	0.0	
Chemical engineering	100.0	93.7	32.6	7.4	49.5	4.2	5.8	0.5	
Civil engineering	100.0	95.0	20.5	25.5	31.7	17.4	4.3	0.6	
Electrical engineering	100.0	98.2	14.0	16.5	47.5	20.1	1.4	0.4	
Industrial	100.0	100.0	9.5	26.2	28.6	35.7	0.0	0.0	
Materials/metallurgical engineering	100.0	93.7	27.9	6.3	41.4	18.0	5.4	0.9	
Mechanical engineering	100.0	97.2	21.0	15.5	42.0	18.8	2.2	0.6	
Other engineering	100.0	97.7	35.0	17.9	21.7	23.2	2.3	0.0	
Sciences	100.0	96.5	45.8	25.7	12.6	12.4	3.3	0.2	
Agricultural science	100.0	98.1	29.5	29.2	20.8	18.6	1.9	0.0	
Biological science	100.0	96.6	73.5	10.4	6.7	6.1	3.1	0.3	
Computer science	100.0	95.9	14.2	46.3	23.5	11.9	4.1	0.0	

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2003
(Percent distribution)

Field of study	Definite plans	In the United States					Other ¹	Abroad	Location unknown
		Total U.S.	Postdoc study	Academic employment	Industry employment				
Earth, atmospheric, and ocean sciences	100.0	94.5	41.7	23.0	12.8	16.9	5.2	0.3	
Mathematics	100.0	94.8	35.0	42.1	11.7	6.0	5.2	0.0	
Physical sciences	100.0	95.5	53.7	10.9	24.2	6.7	4.1	0.4	
Astronomy	100.0	94.9	67.3	12.2	6.1	9.2	5.1	0.0	
Chemistry	100.0	96.4	52.8	9.8	29.3	4.5	3.1	0.5	
Physics	100.0	93.5	53.2	12.9	16.3	11.1	6.5	0.0	
Other physical sciences	100.0	92.3	23.1	23.1	23.1	23.1	0.0	7.7	
Psychology	100.0	98.6	40.9	23.4	13.9	20.4	1.4	0.1	
Social sciences	100.0	95.1	13.7	55.5	8.9	16.9	4.5	0.4	
Non-S&E	100.0	97.9	8.0	55.5	5.7	28.7	1.9	0.2	
Non-U.S. citizens with permanent visas	100.0	92.8	29.2	32.7	22.6	8.4	6.6	0.6	
Science and engineering	100.0	95.0	40.0	18.5	29.9	6.6	4.2	0.7	
Engineering	100.0	98.8	20.1	11.2	63.3	4.1	0.6	0.6	
Aeronautical/astronautical	100.0	100.0	12.5	12.5	62.5	12.5	0.0	0.0	
Chemical engineering	100.0	100.0	46.2	0.0	53.8	0.0	0.0	0.0	
Civil engineering	100.0	100.0	5.3	10.5	78.9	5.3	0.0	0.0	
Electrical engineering	100.0	98.4	13.1	6.6	75.4	3.3	1.6	0.0	
Industrial	100.0	100.0	12.5	37.5	50.0	0.0	0.0	0.0	
Materials/metallurgical engineering	100.0	100.0	44.4	11.1	33.3	11.1	0.0	0.0	
Mechanical engineering	100.0	96.4	10.7	21.4	60.7	3.6	0.0	3.6	
Other engineering	100.0	100.0	42.9	7.1	50.0	0.0	0.0	0.0	
Sciences	100.0	93.8	46.5	20.9	19.0	7.4	5.4	0.8	
Agricultural science	100.0	87.5	62.5	0.0	18.8	6.3	12.5	0.0	
Biological science	100.0	95.3	76.0	9.9	5.8	3.5	4.1	0.6	
Computer science	100.0	100.0	18.2	30.3	48.5	3.0	0.0	0.0	
Earth, atmospheric, and ocean sciences	100.0	100.0	45.8	8.3	33.3	12.5	0.0	0.0	
Mathematics	100.0	92.9	35.7	39.3	10.7	7.1	3.6	3.6	
Physical sciences	100.0	97.9	41.1	9.5	44.2	3.2	2.1	0.0	
Astronomy	100.0	75.0	50.0	25.0	0.0	0.0	25.0	0.0	
Chemistry	100.0	98.3	40.7	6.8	47.5	3.4	1.7	0.0	
Physics	100.0	100.0	40.6	12.5	43.8	3.1	0.0	0.0	
Other physical sciences	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Psychology	100.0	92.1	39.5	21.1	13.2	18.4	7.9	0.0	
Social sciences	100.0	86.5	17.1	45.9	9.9	13.5	11.7	1.8	
Non-S&E	100.0	88.1	6.0	63.0	6.9	12.2	11.6	0.3	
Non-U.S. citizens with temporary visas	100.0	68.3	36.0	16.4	13.6	2.3	31.3	0.4	
Science and engineering	100.0	72.2	42.4	11.9	15.9	2.0	27.4	0.4	
Engineering	100.0	73.0	32.3	9.3	29.9	1.5	26.4	0.5	
Aeronautical/astronautical	100.0	76.8	48.2	7.1	21.4	0.0	23.2	0.0	

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2003
(Percent distribution)

Field of study	Definite plans	In the United States					Other ¹	Abroad	Location unknown
		Total U.S.	Postdoc study	Academic employment	Industry employment				
Chemical engineering	100.0	74.9	34.5	1.8	38.1	0.4	25.1	0.0	
Civil engineering	100.0	63.0	31.3	7.8	20.8	3.1	35.9	1.0	
Electrical engineering	100.0	77.0	23.9	12.8	38.4	1.8	22.5	0.5	
Industrial	100.0	52.8	6.9	30.6	15.3	0.0	47.2	0.0	
Materials/metallurgical engineering	100.0	74.3	49.7	4.1	18.7	1.8	25.1	0.6	
Mechanical engineering	100.0	76.5	38.8	8.2	28.6	0.8	22.7	0.8	
Other engineering	100.0	70.1	35.3	8.4	24.0	2.4	29.3	0.6	
Sciences	100.0	71.9	46.9	13.0	9.7	2.3	27.8	0.3	
Agricultural science	100.0	48.2	38.4	2.7	6.3	0.8	51.4	0.4	
Biological science	100.0	83.6	75.3	3.5	3.5	1.3	16.0	0.4	
Computer science	100.0	82.0	23.0	38.3	20.3	0.4	17.6	0.4	
Earth, atmospheric, and ocean sciences	100.0	73.6	52.1	4.9	11.7	4.9	25.2	1.2	
Mathematics	100.0	72.5	40.3	21.7	10.2	0.3	27.5	0.0	
Physical sciences	100.0	84.1	63.1	2.9	17.1	0.9	15.5	0.5	
Astronomy	100.0	77.8	70.4	0.0	7.4	0.0	22.2	0.0	
Chemistry	100.0	88.6	63.9	2.8	20.9	1.0	10.5	0.8	
Physics	100.0	78.2	61.6	3.3	12.4	0.9	21.8	0.0	
Other physical sciences	100.0	33.3	33.3	0.0	0.0	0.0	66.7	0.0	
Psychology	100.0	74.8	42.2	23.0	3.7	5.9	25.2	0.0	
Social sciences	100.0	48.9	9.7	26.5	7.4	5.4	51.0	0.1	
Non-S&E	100.0	51.9	9.1	35.2	4.3	3.3	47.7	0.4	

¹ Other includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTE: Persons with unknown citizenship are included in the total but are not shown separately. Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields. Non-S&E includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 15. Postgraduation plans of doctorate recipients by sex and major field: 2003

Field of study	All recipients	Definite plans						Abroad	Location unknown
		In the United States				Other ¹			
		Total	Total U.S	Postdoc study	Academic employment		Industry employment		
All recipients	28,044	19,339	18,736	5,336	7,339	2,291	3,770	552	51
Science and engineering	15,669	10,863	10,469	4,662	2,611	1,805	1,391	362	32
Engineering	2,163	1,443	1,397	346	219	583	249	40	6
Aeronautical/astronautical	80	56	55	14	7	13	21	1	0
Chemical Engineering	292	203	191	68	14	101	8	11	1
Civil Engineering	269	180	172	34	43	66	29	7	1
Electrical Engineering	494	339	333	47	50	178	58	5	1
Industrial	70	50	50	5	14	16	15	0	0
Materials/metallurgical engineering	200	129	122	39	9	52	22	6	1
Mechanical Engineering	332	209	203	41	34	93	35	4	2
Other Engineering	426	277	271	98	48	64	61	6	0
Sciences	13,506	9,420	9,072	4,316	2,392	1,222	1,142	322	26
Agricultural science	477	328	320	102	91	68	59	8	0
Biological science	4,047	2,855	2,757	2,102	296	189	170	89	9
Computer science	440	301	290	44	134	79	33	11	0
Earth, atmospheric, and ocean sciences	512	367	348	154	81	52	61	18	1
Mathematics	516	377	357	132	158	44	23	19	1
Physical sciences	1,966	1,389	1,329	734	150	355	90	55	5
Astronomy	130	102	96	68	13	6	9	6	0
Chemistry	1,262	917	885	477	88	279	41	28	4
Physics	552	357	336	186	46	67	37	21	0
Other physical sciences	22	13	12	3	3	3	3	0	1
Psychology	2,846	1,921	1,891	786	448	266	391	29	1
Social Sciences	2,702	1,882	1,780	262	1,034	169	315	93	9
Non-S&E	12,375	8,476	8,267	674	4,728	486	2,379	190	19
Men	13,855	9,773	9,427	2,863	3,369	1,492	1,703	316	30
Science and engineering	8,866	6,316	6,070	2,604	1,402	1,270	794	223	23
Engineering	1,726	1,181	1,143	262	164	511	206	33	5
Aeronautical/astronautical	69	49	48	11	6	12	19	1	0
Chemical Engineering	220	161	153	55	9	82	7	8	0
Civil Engineering	200	138	130	22	30	58	20	7	1
Electrical Engineering	430	303	297	38	44	161	54	5	1
Industrial	48	34	34	3	9	11	11	0	0
Materials/metallurgical engineering	155	99	92	29	5	41	17	6	1
Mechanical Engineering	292	185	180	34	28	89	29	3	2
Other Engineering	312	212	209	70	33	57	49	3	0
Sciences	7,140	5,135	4,927	2,342	1,238	759	588	190	18
Agricultural science	317	227	221	70	59	53	39	6	0
Biological science	2,134	1,560	1,509	1,164	158	101	86	45	6
Computer science	343	231	224	38	92	70	24	7	0
Earth, atmospheric, and ocean sciences	327	244	231	95	54	39	43	12	1
Mathematics	364	265	253	100	102	34	17	12	0
Physical sciences	1,399	1,008	963	533	95	267	68	41	4

TABLE 15. Postgraduation plans of doctorate recipients by sex and major field: 2003

Field of study	All recipients	Definite plans						Abroad	Location unknown
		In the United States							
		Total	Total U.S.	Postdoc study	Academic employment	Industry employment	Other ¹		
Astronomy	99	78	75	53	9	5	8	3	0
Chemistry	847	640	616	329	52	206	29	20	4
Physics	439	282	264	148	32	54	30	18	0
Other physical sciences	14	8	8	3	2	2	1	0	0
Psychology	892	614	598	222	148	96	132	15	1
Social Sciences	1,364	986	928	120	530	99	179	52	6
Non-S&E	4,989	3,457	3,357	259	1,967	222	909	93	7
Women	14,185	9,564	9,307	2,472	3,970	798	2,067	236	21
Science and engineering	6,801	4,545	4,397	2,057	1,209	534	597	139	9
Engineering	437	262	254	84	55	72	43	7	1
Aeronautical/astronautical	11	7	7	3	1	1	2	0	0
Chemical Engineering	72	42	38	13	5	19	1	3	1
Civil Engineering	69	42	42	12	13	8	9	0	0
Electrical Engineering	64	36	36	9	6	17	4	0	0
Industrial	22	16	16	2	5	5	4	0	0
Materials/metallurgical engineering	45	30	30	10	4	11	5	0	0
Mechanical Engineering	40	24	23	7	6	4	6	1	0
Other Engineering	114	65	62	28	15	7	12	3	0
Sciences	6,364	4,283	4,143	1,973	1,154	462	554	132	8
Agricultural science	160	101	99	32	32	15	20	2	0
Biological science	1,911	1,293	1,246	937	138	87	84	44	3
Computer science	97	70	66	6	42	9	9	4	0
Earth, atmospheric, and ocean sciences	185	123	117	59	27	13	18	6	0
Mathematics	152	112	104	32	56	10	6	7	1
Physical sciences	567	381	366	201	55	88	22	14	1
Astronomy	31	24	21	15	4	1	1	3	0
Chemistry	415	277	269	148	36	73	12	8	0
Physics	113	75	72	38	14	13	7	3	0
Other physical sciences	8	5	4	0	1	1	2	0	1
Psychology	1,954	1,307	1,293	564	300	170	259	14	0
Social Sciences	1,338	896	852	142	504	70	136	41	3
Non-S&E	7,384	5,019	4,910	415	2,761	264	1,470	97	12

¹ Other includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTE: Data exclude non-U.S. citizens with temporary visas and those of unknown citizenship. Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science, and public administration is not included in professional fields but in social science. Non-S&E includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TABLE 16. Definite postgraduation plans of doctorate recipients by sex and major field: 2003
(Percent distribution)

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total U.S.	Postdoc study	Academic employment	Industry employment	Other ¹		
All recipients	100.0	96.9	27.6	37.9	11.8	19.5	2.9	0.3
Science and engineering	100.0	96.4	42.9	24.0	16.6	12.8	3.3	0.3
Engineering	100.0	96.8	24.0	15.2	40.4	17.3	2.8	0.4
Aeronautical/astronautical	100.0	98.2	25.0	12.5	23.2	37.5	1.8	0.0
Chemical Engineering	100.0	94.1	33.5	6.9	49.8	3.9	5.4	0.5
Civil Engineering	100.0	95.6	18.9	23.9	36.7	16.1	3.9	0.6
Electrical Engineering	100.0	98.2	13.9	14.7	52.5	17.1	1.5	0.3
Industrial	100.0	100.0	10.0	28.0	32.0	30.0	0.0	0.0
Materials/metallurgical engineering	100.0	94.6	30.2	7.0	40.3	17.1	4.7	0.8
Mechanical Engineering	100.0	97.1	19.6	16.3	44.5	16.7	1.9	1.0
Other Engineering	100.0	97.8	35.4	17.3	23.1	22.0	2.2	0.0
Sciences	100.0	96.3	45.8	25.4	13.0	12.1	3.4	0.3
Agricultural science	100.0	97.6	31.1	27.7	20.7	18.0	2.4	0.0
Biological science	100.0	96.6	73.6	10.4	6.6	6.0	3.1	0.3
Computer science	100.0	96.3	14.6	44.5	26.2	11.0	3.7	0.0
Earth, atmospheric, and ocean sciences	100.0	94.8	42.0	22.1	14.2	16.6	4.9	0.3
Mathematics	100.0	94.7	35.0	41.9	11.7	6.1	5.0	0.3
Physical sciences	100.0	95.7	52.8	10.8	25.6	6.5	4.0	0.4
Astronomy	100.0	94.1	66.7	12.7	5.9	8.8	5.9	0.0
Chemistry	100.0	96.5	52.0	9.6	30.4	4.5	3.1	0.4
Physics	100.0	94.1	52.1	12.9	18.8	10.4	5.9	0.0
Other physical sciences	100.0	92.3	23.1	23.1	23.1	23.1	0.0	7.7
Psychology	100.0	98.4	40.9	23.3	13.8	20.4	1.5	0.1
Social Sciences	100.0	94.6	13.9	54.9	9.0	16.7	4.9	0.5
Non-S&E	100.0	97.5	8.0	55.8	5.7	28.1	2.2	0.2
Men	100.0	96.5	29.3	34.5	15.3	17.4	3.2	0.3
Science and engineering	100.0	96.1	41.2	22.2	20.1	12.6	3.5	0.4
Engineering	100.0	96.8	22.2	13.9	43.3	17.4	2.8	0.4
Aeronautical/astronautical	100.0	98.0	22.4	12.2	24.5	38.8	2.0	0.0
Chemical Engineering	100.0	95.0	34.2	5.6	50.9	4.3	5.0	0.0
Civil Engineering	100.0	94.2	15.9	21.7	42.0	14.5	5.1	0.7
Electrical Engineering	100.0	98.0	12.5	14.5	53.1	17.8	1.7	0.3
Industrial	100.0	100.0	8.8	26.5	32.4	32.4	0.0	0.0
Materials/metallurgical engineering	100.0	92.9	29.3	5.1	41.4	17.2	6.1	1.0
Mechanical Engineering	100.0	97.3	18.4	15.1	48.1	15.7	1.6	1.1
Other Engineering	100.0	98.6	33.0	15.6	26.9	23.1	1.4	0.0
Sciences	100.0	95.9	45.6	24.1	14.8	11.5	3.7	0.4
Agricultural science	100.0	97.4	30.8	26.0	23.3	17.2	2.6	0.0
Biological science	100.0	96.7	74.6	10.1	6.5	5.5	2.9	0.4
Computer science	100.0	97.0	16.5	39.8	30.3	10.4	3.0	0.0
Earth, atmospheric, and ocean sciences	100.0	94.7	38.9	22.1	16.0	17.6	4.9	0.4
Mathematics	100.0	95.5	37.7	38.5	12.8	6.4	4.5	0.0

TABLE 16. Definite postgraduation plans of doctorate recipients by sex and major field: 2003
(Percent distribution)

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total U.S.	Postdoc study	Academic employment	Industry employment	Other ¹		
Physical sciences	100.0	95.5	52.9	9.4	26.5	6.7	4.1	0.4
Astronomy	100.0	96.2	67.9	11.5	6.4	10.3	3.8	0.0
Chemistry	100.0	96.3	51.4	8.1	32.2	4.5	3.1	0.6
Physics	100.0	93.6	52.5	11.3	19.1	10.6	6.4	0.0
Other physical sciences	100.0	100.0	37.5	25.0	25.0	12.5	0.0	0.0
Psychology	100.0	97.4	36.2	24.1	15.6	21.5	2.4	0.2
Social Sciences	100.0	94.1	12.2	53.8	10.0	18.2	5.3	0.6
Non-S&E	100.0	97.1	7.5	56.9	6.4	26.3	2.7	0.2
Women	100.0	97.3	25.8	41.5	8.3	21.6	2.5	0.2
Science and engineering	100.0	96.7	45.3	26.6	11.7	13.1	3.1	0.2
Engineering	100.0	96.9	32.1	21.0	27.5	16.4	2.7	0.4
Aeronautical/astronautical	100.0	100.0	42.9	14.3	14.3	28.6	0.0	0.0
Chemical Engineering	100.0	90.5	31.0	11.9	45.2	2.4	7.1	2.4
Civil Engineering	100.0	100.0	28.6	31.0	19.0	21.4	0.0	0.0
Electrical Engineering	100.0	100.0	25.0	16.7	47.2	11.1	0.0	0.0
Industrial	100.0	100.0	12.5	31.3	31.3	25.0	0.0	0.0
Materials/metallurgical engineering	100.0	100.0	33.3	13.3	36.7	16.7	0.0	0.0
Mechanical Engineering	100.0	95.8	29.2	25.0	16.7	25.0	4.2	0.0
Other Engineering	100.0	95.4	43.1	23.1	10.8	18.5	4.6	0.0
Sciences	100.0	96.7	46.1	26.9	10.8	12.9	3.1	0.2
Agricultural science	100.0	98.0	31.7	31.7	14.9	19.8	2.0	0.0
Biological science	100.0	96.4	72.5	10.7	6.7	6.5	3.4	0.2
Computer science	100.0	94.3	8.6	60.0	12.9	12.9	5.7	0.0
Earth, atmospheric, and ocean sciences	100.0	95.1	48.0	22.0	10.6	14.6	4.9	0.0
Mathematics	100.0	92.9	28.6	50.0	8.9	5.4	6.3	0.9
Physical sciences	100.0	96.1	52.8	14.4	23.1	5.8	3.7	0.3
Astronomy	100.0	87.5	62.5	16.7	4.2	4.2	12.5	0.0
Chemistry	100.0	97.1	53.4	13.0	26.4	4.3	2.9	0.0
Physics	100.0	96.0	50.7	18.7	17.3	9.3	4.0	0.0
Other physical sciences	100.0	80.0	0.0	20.0	20.0	40.0	0.0	20.0
Psychology	100.0	98.9	43.2	23.0	13.0	19.8	1.1	0.0
Social Sciences	100.0	95.1	15.8	56.3	7.8	15.2	4.6	0.3
Non-S&E	100.0	97.8	8.3	55.0	5.3	29.3	1.9	0.2

¹ Other includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTE: Data exclude non-U.S. citizens with temporary visas and those of unknown citizenship. Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science, and public administration is not included in professional fields but in social science. Non-S&E includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

TECHNICAL NOTES

SURVEY OVERVIEW

The Survey of Earned Doctorates (SED) is designed to obtain data on the number and characteristics of individuals receiving research doctoral degrees from U.S. institutions. The results of the survey are used to assess trends in doctorate production. This information is vital for educational and labor force planners within the Federal Government and in academia. The survey has been completed by individuals receiving research doctorates since 1958. The graduate schools are responsible for submitting completed forms and sending them to be compiled in the Doctorate Records File (DRF).

Key variables of the survey include:

- Academic institution attended
- Citizenship status at graduation
- Country of birth
- Country of citizenship
- Date of birth
- Disability status
- Educational attainment of parents
- Educational history after high school
- Field of degree specialty (N = 287)
- Field of employment
- Field of science and engineering
- Level of degree
- Marital status
- Number of dependents
- Place of birth
- Postgraduate plans
- Primary type of financial support
- Race and Hispanic ethnicity (by subgroup)
- Sex
- Type of academic institution that conferred degrees
- Type of employment planned
- Type of financial support (e.g., Fellowship, research assistantship)
- Type of institutional control (public versus private)
- Work activity planned after doctoral degree

The race and ethnicity questions on the survey form were revised in 2001. To maintain time series in this report, as was done in the two previous reports, data in the new categories were combined into the pre-2001 categories for table production. For the years 2001 and later, the data in the “Asian” category were combined with those in the “Native Hawaiian/Pacific Islander” category; data in the “Cuban” category were combined with those

in the “Other Hispanic” category; and multiple racial/ethnic response data were combined with the unknown racial/ethnic responses.

A complete questionnaire is contained in the next section.

DATA COLLECTION

The population for the 2003 survey consisted of all individuals who received research doctorates (only first doctorates are included) from U.S. academic institutions in the 12-month period ending on June 30, 2003. The total universe consisted of 40,710 persons in over 400 institutions that conferred research doctorate awards in 2003.

Survey instruments were mailed to institutional coordinators in the graduate schools who distributed the survey forms to individuals receiving a research doctorate. The institutional coordinators also collected the forms and returned them to the contractor for editing/processing. Followup of missing critical items and forms is also conducted.

Because the survey collects a complete college education history, coding of institutions is very important. One-third of doctorate recipients from U.S. universities are from foreign countries, therefore a coding manual for foreign institutions of higher education was developed by the U.S. Department of Education, entitled “Mapping the World of Education: The Comparative Database System” (3 Volumes).

The survey was conducted by the National Research Council of the National Academy of Sciences under contract to the National Science Foundation until 1997; the National Opinion Research Center (Chicago, IL) currently conducts the survey under contract to the National Science Foundation.

NONRESPONSE

Of the 40,710 new research doctorates granted in 2003, 91.3 percent of degree recipients returned their completed survey instruments. Limited records (containing field of study, doctorate institution, and sex) for nonrespondents are constructed based on information collected from administrative lists of the university—commencement programs, graduation lists, and other similar public records. Nonresponse was concentrated

in certain institutions; graduates from 10 institutions accounted for 29 percent of the total nonrespondents.

Item nonresponse rates in 2003 for the most frequently used variables ranged from 0.3 percent for sex to 7.3 percent for race/ethnicity. No imputation was performed for missing data items.

Key variable	Item response rate
Sex	99.7%
Citizenship	94.9
Country of non-U.S. citizens	94.5
Race/ethnicity	93.5
Postgraduation location (U.S. or foreign)	92.7

A complete quality profile for the 2003 SED is available upon request. A complete list of methodological research concerning the Survey of Earned Doctorates is also available upon request.

AVAILABILITY OF DATA

The survey has collected information on doctoral recipients annually since 1957. More limited information is contained on the SED data file for research doctorate recipients from 1920 to 1956.

The data from this survey are published annually in detailed statistical tables in the series Science and Engineering Doctorate Awards, available on the SRS Web site at www.nsf.gov/sbe/srs/sengdr/.

These reports focus on science and engineering fields of study. (The list of how fields of study are grouped for this report is shown at the end of the Technical Notes.) Companion data from this survey for earlier years (1960–

91) were published in detailed statistical tables in the report *Science and Engineering Doctorates: 1960–91* (NSF 93-301). This report is out of print, but tables from it are available on request.

Information from the survey is also included in the report series, *Science and Engineering Degrees*; in *Science and Engineering Indicators*; in *Women, Minorities, and Persons With Disabilities in Science and Engineering*; and in special occasional publications such as *Undergraduate Origins of Recent Science and Engineering Doctorate Recipients*.

Results are also included in a publication series on all fields of study—*Doctorate Recipients from United States Universities: Summary Report*; this interagency report is sponsored by the Federal agencies that support the Survey of Earned Doctorates (six in 2003). The report is available on the Web at www.norc.uchicago.edu/issues/docdata.htm.

Selected summary data from this survey are available on the SRS Web site and in the WebCASPAR database by institution. Access to restricted data for researchers interested in analyzing microdata can be arranged through a licensing agreement. Additional information about this survey can be obtained by contacting:

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Human Resources Statistics Program
Division of Science Resources Statistics
National Science Foundation
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Arlington, VA 22230
Phone: (703) 292-7793
E-mail: jburrell@nsf.gov

FIELDS OF STUDY

ENGINEERING

Aeronautical/Astronautical Engineering

300 Aerospace, Aeronautical, and Astronautical Engineering

Chemical Engineering

312 Chemical Engineering

366 Petroleum Engineering

369 Polymer and Plastics Engineering

Civil Engineering

315 Civil Engineering

336 Environmental Health Engineering

Electrical Engineering

318 Communications Engineering

321 Computer Engineering

324 Electrical and Electronics Engineering

Industrial Engineering

339 Industrial and Manufacturing Engineering

Mechanical Engineering

327 Engineering Mechanics

345 Mechanical Engineering

Materials/Metallurgical Engineering

309 Ceramic Sciences

342 Materials Science

348 Metallurgical Engineering

Other Engineering

303 Agricultural Engineering

306 Bioengineering and Biomedical Engineering

330 Engineering Physics

333 Engineering Science

351 Mining and Mineral Engineering

357 Nuclear Engineering

360 Ocean Engineering

363 Operations Research

372 Systems Engineering

398 Engineering, General

399 Engineering, Other

PHYSICAL SCIENCES

Astronomy

- 500 Astronomy
- 505 Astrophysics

Chemistry

- 520 Analytical Chemistry
- 522 Inorganic Chemistry
- 524 Nuclear Chemistry
- 526 Organic Chemistry
- 528 Pharmaceutical Chemistry
- 530 Physical Chemistry
- 532 Polymer Chemistry
- 534 Theoretical Chemistry
- 538 Chemistry, General
- 539 Chemistry, Other

Physics

- 560 Acoustics
- 561 Chemical and Atomic/Molecular Physics
- 564 Elementary Particle Physics
- 566 Fluids
- 568 Nuclear Physics
- 569 Optics
- 570 Plasma and High-Temperature Physics
- 572 Polymer Physics
- 574 Solid State and Low-Temperature Physics
- 578 Physics, General
- 579 Physics, Other

Other Physical Sciences

- 599 Physical Sciences, Other

EARTH, ATMOSPHERIC, AND OCEAN SCIENCES

Atmospheric Sciences

- 510 Atmospheric Physics and Chemistry
- 512 Atmospheric Dynamics
- 514 Meteorology
- 518 Atmospheric Science/Meteorology, General
- 519 Atmospheric Science/Meteorology, Other

Earth Sciences

- 540 Geology
- 542 Geochemistry
- 544 Geophysics and Seismology
- 546 Paleontology
- 548 Mineralogy and Petrology
- 550 Stratigraphy and Sedimentation
- 552 Geomorphology and Glacial Geology

- 558 Geological and Related Sciences, General
- 559 Geological and Related Sciences, Other
- 585 Hydrology and Water Resources

Oceanography

- 590 Oceanography
- 595 Marine Sciences

Other Environmental Sciences

- 580 Environmental Science

MATHEMATICS/COMPUTER SCIENCES

Mathematics

- 420 Applied Mathematics
- 425 Algebra
- 430 Analysis and Functional Analysis
- 435 Geometry
- 440 Logic
- 445 Number Theory
- 450 Mathematical Statistics
- 455 Topology
- 460 Computing Theory and Practice
- 465 Operations Research
- 498 Mathematics, General
- 499 Mathematics, Other

Computer Science

- 400 Computer Science
- 410 Information Science and Systems

BIOLOGICAL/AGRICULTURAL SCIENCES

Agricultural Sciences

- 005 Animal Breeding and Genetics
- 010 Animal Nutrition
- 012 Dairy Science
- 014 Poultry Science
- 019 Animal Sciences, Other
- 020 Agronomy and Crop Science
- 025 Plant Breeding and Genetics
- 030 Plant Pathology
- 039 Plant Sciences, Other
- 043 Food Engineering
- 044 Food Sciences, Other
- 046 Soil Chemistry and Microbiology
- 049 Soil Sciences, Other
- 050 Horticulture Science
- 055 Fisheries Science and Management
- 066 Forest Biology
- 068 Forest Engineering

- 070 Forest Management
- 072 Wood Science and Pulp/Paper Technology
- 074 Conservation and Renewable Natural Resources
- 079 Forestry and Related Sciences
- 080 Wildlife and Range Management
- 098 Agricultural Science, General
- 099 Agricultural Science, Other

Biological Sciences

- 100 Biochemistry
- 103 Biomedical Sciences
- 105 Biophysics
- 107 Biotechnology Research
- 110 Bacteriology
- 115 Plant Genetics
- 120 Plant Pathology
- 125 Plant Physiology
- 129 Botany, Other
- 130 Anatomy
- 133 Biometrics and Biostatistics
- 136 Cell Biology
- 139 Ecology
- 142 Embryology
- 145 Endocrinology
- 148 Entomology
- 151 Biological Immunology
- 154 Molecular Biology
- 157 Microbiology
- 160 Neuroscience
- 163 Nutritional Sciences
- 166 Parasitology
- 169 Toxicology
- 170 Genetics, Human and Animal
- 175 Pathology, Human and Animal
- 180 Pharmacology, Human and Animal
- 185 Physiology, Human and Animal
- 189 Zoology, Other
- 198 Biological Sciences, General
- 199 Biological Sciences, Other

Psychology

- 600 Clinical Psychology
- 603 Cognitive Psychology and Psycholinguistics
- 606 Comparative Psychology
- 609 Counseling Psychology
- 612 Developmental and Child Psychology
- 613 Human Indiv. & Family Development
- 615 Experimental Psychology
- 618 Educational Psychology
- 620 Family and Marriage Counseling
- 621 Industrial and Organizational Psychology

- 624 Personality Psychology
- 627 Physiological Psychology/Psychobiology
- 630 Psychometrics
- 633 Quantitative Psychology
- 636 School Psychology
- 639 Social Psychology
- 648 Psychology, General
- 649 Psychology, Other

SOCIAL SCIENCES

Economics

- 000 Agricultural Economics
- 666 Economics
- 668 Econometrics

Political Science

- 674 International Relations/Affairs
- 678 Political Science and Government
- 682 Public Policy Analysis
- 976 Public Administration

Sociology

- 662 Demography and Population Studies
- 686 Sociology

Other Social Sciences

- 650 Anthropology
- 652 Area Studies
- 658 Criminology
- 670 Geography
- 690 Statistics
- 694 Urban Affairs/Studies
- 698 Social Sciences, General
- 699 Social Sciences, Other
- 710 History and Philosophy of Science and Technology
- 729 Linguistics
- 770 American Studies
- 773 Archeology

NON-S&E

Health and Medical Sciences

- 200 Speech/Language Pathology and Audiology
- 210 Environmental Health
- 212 Health Systems/Services Administration
- 215 Public Health
- 220 Epidemiology
- 222 Exercise Physiology/Science Kinesiology
- 230 Nursing
- 240 Pharmacy

- 245 Rehabilitation/Therapeutic Services
- 250 Veterinary Science
- 298 Health Sciences, General
- 299 Health Sciences, Other

HUMANITIES

History

- 700 History, American
- 703 History, Asian
- 705 History, European
- 718 History, General
- 719 History, Other

English and Literature

- 720 Classics
- 723 Comparative Literature
- 732 Literature, American
- 733 Literature, English
- 734 English Language
- 736 Speech and Rhetorical Studies
- 738 Letters, General
- 739 Letters, Other

Foreign Languages

- 740 French
- 743 German
- 746 Italian
- 749 Spanish
- 752 Russian
- 755 Slavic (Other than Russian)
- 758 Chinese
- 762 Japanese
- 765 Hebrew
- 768 Arabic
- 769 Other Languages and Literature

Other Humanities

- 776 Art History/Criticism/Conservation
- 780 Music
- 785 Philosophy (see also 440)
- 790 Religion
- 795 Drama/Theater Arts
- 798 Humanities, General
- 799 Humanities, Other

Education

- 800 Curriculum and Instruction
- 805 Education Administration and Supervision
- 807 Educational Leadership
- 810 Educational/Instructional Media Design

- 815 Educational Statistics/Research Methods
- 820 Educational Assessment/Test Measurement
- 822 Educational Psychology
- 825 School Psychology
- 830 Social/Philosophical Foundations of Education
- 835 Special Education
- 840 Counseling Education/Counseling and Guidance Services
- 845 Education Evaluation and Research

Teacher Education

- 850 Pre-Elementary/Early Childhood Teacher Education
- 852 Elementary Teacher Education
- 856 Secondary Teacher Education
- 858 Adult and Continuing Teacher Education

Teaching Fields

- 860 Agricultural Education
- 861 Art Education
- 862 Business Education
- 864 English Education
- 866 Foreign Languages Education
- 868 Health Education
- 870 Home Economics Education
- 872 Technical and Industrial Arts Education
- 874 Mathematics Education
- 876 Music Education
- 880 Physical Education and Coaching
- 882 Reading Education
- 884 Science Education
- 885 Social Science Education
- 887 Technical Education
- 888 Trade and Industrial Education
- 889 Teacher Education, Specific Academic and Vocational Programs, Other

Other Education

- 898 Education, General
- 899 Education, Other

PROFESSIONAL/OTHER

Business Management and Administrative Services

- 900 Accounting
- 905 Banking/Financial Support Services
- 910 Business Administration and Management
- 915 Business/Managerial Economics
- 917 Management Information Systems/Business Data Processing

Data Processing

- 920 Marketing Management and Research
- 930 Operations Research (see also 363, 465)
- 935 Organizational Behavior (see also 621)

- 938 Business Management/Administrative Services, General
- 939 Business Management/Administrative Services, Other

Information Fields

- 940 Communications Research
- 947 Mass Communications
- 957 Communication Theory
- 958 Communications, General
- 959 Communications, Other

Other Professional Fields

- 960 Architecture Environmental Design
- 964 Home Economics
- 968 Law
- 972 Library Science
- 974 Parks/Recreation/Leisure/Fitness
- 980 Social Service Professions
- 984 Theology and Religious Education
- 988 Professional Fields, General
- 989 Professional Fields, Other

2003
SURVEY OF EARNED DOCTORATES
SURVEY FORM

Please print your name in full:

First Name	Middle Name	Last Name	Suffix (e.g., Jr.)
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Cross reference: Birth name or former name legally changed

Name of Doctoral Institution	City or Branch	Date Degree Granted (mm/yyyy)
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Survey of Earned Doctorates

July 1, 2002, to June 30, 2003

Conducted by

The National Opinion Research Center at the University of Chicago

for

The National Science Foundation

The National Institutes of Health

The U.S. Department of Education

The National Endowment for the Humanities

The U.S. Department of Agriculture

The National Aeronautics and Space Administration

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. ALL INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you. Your Social Security number is also solicited under the NSF Act of 1950, as amended; providing it is also voluntary. It is used for survey quality control, program evaluation, and for matching with other databases.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 20 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer.

INSTRUCTIONS

Thank you for taking the time to complete this questionnaire. Directions are provided for each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.

- If you have not already done so, please print your name on the front cover.
- Please print all responses; you may use either a pen or pencil.
- When answering questions that require marking a box, please use an "X."
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.
- On page 7 (inside the back cover) is a Specialties List for classifying your field(s) of specialization in questions A2 and A8.

PART A - Education

A1. What is the title of your dissertation?

- Please mark (X) this box if the title below refers to a performance, project report, or a musical or literary composition required instead of a dissertation.

Title

A2. Using the Specialties List (page 7), please write the name and number of the primary field of your dissertation research.

Name of Field
 Number of Field

If you had a secondary field for your dissertation research, list the name and number.

Name of Field
 Number of Field

A3. Please name the department (or interdisciplinary committee, center, institute, etc.) of the university that supervised your doctoral program.

- Mark (X) box if none

Department/Committee/Center/Institute/Program

A4. Please name the school or college within the university that supervised your doctoral program.

- Mark (X) box if not applicable

School or College within University

A5. Which of the following were sources of support during graduate school?

Mark (X) Yes or No for each

	Yes	No
a. Fellowship, scholarship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
b. Dissertation grant	1 <input type="checkbox"/>	2 <input type="checkbox"/>
c. Teaching assistantship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
d. Research assistantship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
e. Traineeship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
f. Internship or residency	1 <input type="checkbox"/>	2 <input type="checkbox"/>
g. Loans (from any source)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
h. Foreign (non-U.S.) support	1 <input type="checkbox"/>	2 <input type="checkbox"/>
i. Personal savings	1 <input type="checkbox"/>	2 <input type="checkbox"/>
j. Personal earnings during graduate school (other than sources listed above)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
k. Spouse's, partner's, or family earnings or savings	1 <input type="checkbox"/>	2 <input type="checkbox"/>
l. Employer reimbursement/assistance	1 <input type="checkbox"/>	2 <input type="checkbox"/>
m. Other - Specify	1 <input type="checkbox"/>	2 <input type="checkbox"/>
<input style="width: 250px; height: 20px;" type="text"/>		

A6. Which TWO sources listed in A5 provided the most support?

Enter letters of primary and secondary sources

1. _____ Primary source of support
 Mark (X) if no primary source
2. _____ Secondary source of support
 Mark (X) if no secondary source

A7. If you received full or partial tuition remission (waiver) for your doctoral studies, was it:

- 0 I did not receive any tuition remission
- 1 for less than 1/3 of tuition
- 2 between 1/3 and 2/3 of tuition
- 3 more than 2/3 of tuition

A9. When you receive your doctoral degree, how much money will you owe that is directly related to your undergraduate and graduate education?

Mark (X) one in each column

Undergraduate	Graduate
0 <input type="checkbox"/> None	0 <input type="checkbox"/> None
1 <input type="checkbox"/> \$5,000 or less	1 <input type="checkbox"/> \$5,000 or less
2 <input type="checkbox"/> \$5,001 - \$10,000	2 <input type="checkbox"/> \$5,001 - \$10,000
3 <input type="checkbox"/> \$10,001 - \$15,000	3 <input type="checkbox"/> \$10,001 - \$15,000
4 <input type="checkbox"/> \$15,001 - \$20,000	4 <input type="checkbox"/> \$15,001 - \$20,000
5 <input type="checkbox"/> \$20,001 - \$25,000	5 <input type="checkbox"/> \$20,001 - \$25,000
6 <input type="checkbox"/> \$25,001 - \$30,000	6 <input type="checkbox"/> \$25,001 - \$30,000
7 <input type="checkbox"/> \$30,001 - \$35,000	7 <input type="checkbox"/> \$30,001 - \$35,000
8 <input type="checkbox"/> \$35,001 - or more	8 <input type="checkbox"/> \$35,001 - or more

A10. How many years were there between the date you first entered graduate school in any program or capacity and the date your doctorate was granted?

Years Round to whole years

A11. How many years were you taking courses or preparing for exams required for or related to your doctoral degree?

Years Round to whole years

A12. How many years did you spend on your dissertation (non-course related preparation or research, writing and defense)?

Years Round to whole years

PART B - Postgraduation Plans

B1. How definite are your immediate (within the next year) postgraduate plans?

Mark (X) one

- 0 Am returning to, or continuing in, predoctoral employment → GO TO B2
- 1 Have signed contract or made definite commitment for other work or study → GO TO B2
- 2 Am negotiating with one or more specific organizations → SKIP TO B3
- 3 Am seeking position but have no specific prospects → SKIP TO B3
- 4 Other - Specify

B2. Please name the organization and geographic location where you will work or study.

Name → SKIP TO B4

City State Country
(if U.S.) (if not U.S.)

B3. In what state or country do you intend to live after graduation (within the next year)?

0 in U.S. → State

1 not in U.S. → Country

B4. What best describes your immediate (within the next year) postgraduate plans?

Mark (X) one

Further Training or Study

- 0 Postdoctoral fellowship → GO TO B5
- 1 Postdoctoral research associateship
- 2 Traineeship
- 3 Other study - Specify

Career Employment

- 4 Employment (other than 0, 1, 2, 3) → SKIP TO B6
- 5 Military service
- 6 Other - Specify

B5. What will be the main source of financial support for your postdoctoral study/research within the next year?

Mark (X) one

- 0 U.S. Government → SKIP TO C1
- 1 Industry/Business
- 2 College or university
- 3 Private foundation
- 4 Nonprofit, other than private foundation
- 5 Other - Specify
- 6 Unknown

B6. For what type of employer will you be working within the next year?

Mark (X) one

EDUCATION

- a. U.S. 4-year college or university other than medical school
- b. U.S. medical school (including university-affiliated hospital or medical center)
- c. U.S. junior or community college or technical institute
- d. Preschool, elementary, or secondary school in the U.S.
- e. Foreign educational institution

GOVERNMENT

- f. Foreign government
- g. U.S. federal government
- h. U.S. state government
- i. U.S. local government

PRIVATE SECTOR

- j. Nonprofit organization
- k. Industry or business
- l. Self-employed

OTHER

- m. Other - Specify

B7. From the list below, please indicate what your primary and secondary work activities will be by entering the numbers of your selections in the appropriate boxes:

Enter numbers from below:

- a. Primary Activity
- b. Secondary Activity

- 0 Research and development
- 1 Teaching
- 2 Administration
- 3 Professional services to individuals
- 4 Other - Specify

PART C - Background Information

C1. Are you -

- 1 Male
- 2 Female

C2. What is your marital status?

Mark (X) one

- 1 Married
- 2 Living in a marriage-like relationship
- 3 Widowed
- 4 Separated/divorced
- 5 Never married

C3. Not including yourself (or your spouse/partner), how many dependents do you have - that is, how many others receive at least one half of their support from you?

Mark (X) box if none

	Number
5 years of age or younger	<input style="width: 30px; height: 15px;" type="text"/>
6 to 18 years	<input style="width: 30px; height: 15px;" type="text"/>
19 years or older	<input style="width: 30px; height: 15px;" type="text"/>

C4. What is the highest educational attainment of your mother and father?

Mark (X) one for each parent

	a. Mother	b. Father
Less than high school/secondary school	1 <input style="width: 15px; height: 15px;" type="checkbox"/>	1 <input style="width: 15px; height: 15px;" type="checkbox"/>
High-school/secondary-school graduate	2 <input style="width: 15px; height: 15px;" type="checkbox"/>	2 <input style="width: 15px; height: 15px;" type="checkbox"/>
Some college	3 <input style="width: 15px; height: 15px;" type="checkbox"/>	3 <input style="width: 15px; height: 15px;" type="checkbox"/>
Bachelor's degree	4 <input style="width: 15px; height: 15px;" type="checkbox"/>	4 <input style="width: 15px; height: 15px;" type="checkbox"/>
Master's degree	5 <input style="width: 15px; height: 15px;" type="checkbox"/>	5 <input style="width: 15px; height: 15px;" type="checkbox"/>
Professional degree	6 <input style="width: 15px; height: 15px;" type="checkbox"/>	6 <input style="width: 15px; height: 15px;" type="checkbox"/>
Doctoral degree	7 <input style="width: 15px; height: 15px;" type="checkbox"/>	7 <input style="width: 15px; height: 15px;" type="checkbox"/>

C5. What is your place of birth?

State (if U.S.)

OR

Country (if not U.S.)

C6. What is your date of birth?

Month Day Year 1 9

C7. What is your citizenship status?

Mark (X) one

U.S. Citizen:

- 0 Native Born → SKIP TO C9
- 1 Naturalized →

Non-U.S. Citizen:

- 2 With a Permanent U.S. Resident Visa ("Green Card") → GO TO C8
- 3 With a Temporary U.S. Visa →

C8. (IF A NON-U.S. CITIZEN) Of which country are you a citizen?

(Specify country of present citizenship)

C9. In what state or country was the high school/secondary school that you last attended?

State (if U.S.)

OR

Country (if not U.S.)

C10. Are you a person with a disability?

1 Yes → **GO TO C11**

2 No → **SKIP TO C12**

C11. (IF YES) Which of the following categories describes your disability(ies)?

Mark (X) one or more

a. Blind/Visually Impaired

b. Deaf/Hard of Hearing

c. Physical/Orthopedic Disability

d. Learning/Cognitive Disability

e. Vocal/Speech Disability

f. Other - Specify

C12. Are you Hispanic (or Latino)?

1 Yes → **GO to C13**

2 No → **SKIP to C14**

C13. (IF YES TO C12) Which of the following describes your Hispanic origin or descent?

1 Mexican American or Chicano

2 Puerto Rican

3 Cuban

4 Other Hispanic - Specify

C14. What is your racial background?

Mark (X) one or more

a. American Indian or Alaska Native

Specify tribal affiliation(s)

b. Native Hawaiian or other Pacific Islander

c. Asian

d. Black or African-American

e. White

C15. Please fill in your U.S. Social Security number.

C16. In case we need to clarify some of the information you have provided, please list an E-mail address, website address (if applicable), and telephone numbers where you can be reached.

E-mail address

Website address

Daytime telephone

Evening telephone

C17. Please provide your address and the name and address of a person through whom you could always be reached.

Current Address

Number Street

City State Country Zip or Postal Code

Contact Person

Name

Number Street

City State Country Zip or Postal Code

Phone Number (including area or country code)

E-mail Address

C18. Please sign and date.

Signature

Date

The Summary Report on this survey is available at <http://www.norc.uchicago.edu/issues/docdata.htm>

Please use the back cover to make any additional comments you may have about this survey.

Thank you for completing the questionnaire. Please return it to your GRADUATE SCHOOL for forwarding to Survey of Earned Doctorates, The National Opinion Research Center at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602. If you have questions or concerns about the survey, you may contact us by e-mail at 4800-sed@norcmil.uchicago.edu or phone at 1-800-248-8649.

To the Doctorate Recipient:

Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agencies—listed on the cover—sponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey. If you have any comments about the survey, please provide them in the space below.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.

Best wishes,

Dr. Lynda Carlson
National Science Foundation

Comments About This Survey

[Empty space for comments about the survey]

Please return this questionnaire to your GRADUATE DEAN for forwarding to Survey of Earned Doctorates, NORC at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602.

If you have questions or concerns about the survey, you may contact us by e-mail at 4800-sed@norcmail.uchicago.edu or phone at 1-800-248-8649.

OFFICE USE ONLY					
Case ID		Instit. Code:		Grad Date:	
Main Disp.:					
PROCESSING					
Receipt		Editing		CADE	
Initials	Date	Initials	Date	Initials	Date
Ver. Adjust		Retrieval		Updates	
Initials	Date	Initials	Date	Initials	Date