National Science Foundation
WHERE DISCOVERIES BEGIN

Division of
SCIENCE RESOURCES STATISTICS

Science and Engineering Doctorate Awards: 2005

Detailed Statistical Tables | NSF 07-305 | December 2006

Susan T. Hill,
Project Officer
Human Resources Statistics Program
(703) 292-7790

General Notes

The data presented in this report show trends in doctoral 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 is conducted annually for the National Science Foundation (NSF) and five other federal agencies (National Endowment for the Humanities, National Institutes of Health, U.S. Department of Agriculture, U.S. Department of Education, National Aeronautics and Space Administration). Information from this survey becomes part of the Doctorate Records File, which is a census, begun in 1920, of individuals who have received research doctorates from 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 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 annually in the interagency report *Doctorate Recipients from United States Universities: Summary Report* (available at http://www.norc.org/issues/docdata.htm). 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 92 percent of doctorate recipients in 2005 responded to the questionnaire. Over the period 1996–2005, the response rate varied between 91 and 95 percent. 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 actually are.

Further information on the survey methodology and other data on S&E doctorate recipients is available at http://www.nsf.gov/statistics/doctorates.

Data Tables

TABLE 1. Doctorates awarded, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	42,437	42,535	42,637	41,092	41,361	40,651	39,953	40,740	42,117	43,354
Science and engineering	27,240	27,229	27,273	25,931	25,966	25,496	24,582	25,274	26,272	27,974
Science	20,931	21,115	21,352	20,601	20,643	19,988	19,505	19,995	20,497	21,570
Biological/agricultural sciences	6,842	6,866	6,955	6,646	6,890	6,668	6,699	6,753	6,984	7,406
Agricultural sciences	1,118	1,078	1,109	1,065	1,037	975	1,009	1,060	1,045	1,038
Agronomy/crop science	110	77	97	106	69	75	74	55	63	79
Animal breeding/genetics	12	24	18	21	22	16	14	21	13	14
Animal nutrition	54	55	45	47	45	45	49	41	47	51
Animal sciences, other	90	62	60	70	73	71	70	88	75	71
Conservation/renewable natural resources	13	17	25	25	19	32	27	47	45	64
Dairy science[a]	9	14	10	12	9	2	7	18	NA	NA
Environmental science	83	96	72	99	95	119	113	136	130	129
Fisheries science/management	46	45	30	38	43	44	53	47	38	34
Food engineering	7	11	13	7	10	14	7	11	94	93
Food sciences, other	142	175	153	137	142	130	129	157	74	48
Forest biology	19	22	20	14	22	27	19	16	36	29
Forest engineering[a]	0	13	2	1	3	0	3	3	NA	NA
Forest management	22	21	27	17	13	13	15	18	26	40
Forestry and related sciences, other	55	50	69	50	54	48	57	47	34	24
Horticulture science	73	44	60	66	55	37	46	54	46	49
Plant breeding/genetics	63	67	69	44	68	37	59	50	36	35
Plant pathology	90	65	66	66	63	52	53	48	56	71
Plant sciences, other	21	20	37	38	29	26	27	29	34	31
Poultry science	11	9	11	8	9	11	10	18	21	14
Soil chemistry/microbiology	29	32	27	29	26	23	29	24	21	24
Soil sciences, other	78	56	74	67	64	56	55	50	52	52
Wildlife/range management	64	50	56	44	56	41	37	46	42	44
Wood science and pulp/paper technology	18	25	25	21	11	20	29	19	19	15
Agricultural sciences, general	5	10	8	8	10	2	4	2	6	10
Agricultural sciences, other	4	18	35	30	27	34	23	15	37	17
Biological sciences	5,724	5,788	5,846	5,581	5,853	5,693	5,690	5,693	5,939	6,368
Anatomy	47	50	35	33	39	29	20	33	13	23
Bacteriology	16	13	13	13	15	17	12	6	15	13
Biochemistry	794	831	800	759	776	728	782	772	703	692
Biological immunology	238	214	246	223	239	265	278	261	347	343
Biomedical sciences	141	158	182	176	155	155	220	181	182	248
Biometrics/biostatistics	80	84	75	76	92	90	81	84	100	130
Biophysics	142	147	166	173	164	162	151	161	130	144
Biotechnology research	6	11	12	19	14	9	13	24	26	23
Botany, other	105	91	113	67	92	75	84	80	135	87
Cell biology	233	251	300	281	337	315	302	301	292	316
Developmental biology/embryology	96	115	127	108	112	107	93	126	141	162
Ecology	245	255	293	273	296	338	311	347	366	412
Endocrinology	24	17	30	19	20	18	14	21	22	29
Entomology	136	123	138	114	137	90	113	111	108	103
Human/animal genetics	212	217	197	216	227	199	225	226	257	287
Human/animal pathology	135	106	90	120	106	116	115	101	98	93
Human/animal pharmacology	316	300	255	254	267	257	268	275	287	315
Human/animal physiology	275	227	258	244	241	217	208	215	207	208
Microbiology	444	410	383	383	382	396	383	363	393	430
Molecular biology	651	775	736	716	706	711	621	614	726	726
Neuroscience	404	437	413	431	495	485	490	472	584	689
Nutritional sciences	142	124	139	102	150	135	141	127	131	163
Parasitology	22	17	15	13	19	22	17	15	20	21
Plant genetics	41	30	40	31	35	31	57	38	54	50

TABLE 1. Doctorates awarded, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Plant pathology	38	33	18	36	25	31	24	27	25	31
Plant physiology	73	47	61	54	39	45	43	32	24	38
Toxicology	138	180	155	114	123	133	122	122	105	102
Zoology, other	100	97	111	126	133	103	122	127	94	103
Biological sciences, general	292	209	217	182	200	193	184	194	188	189
Biological sciences, other	138	219	228	225	217	221	196	237	166	198
Earth, atmospheric, and ocean sciences	724	804	765	723	694	660	689	683	686	713
Atmospheric sciences	125	149	125	124	143	116	117	139	126	144
Atmospheric dynamics	21	25	24	17	17	17	13	21	33	28
Atmospheric physics/chemistry	22	45	38	43	39	33	39	39	29	42
Meteorology	35	28	25	22	34	20	15	25	22	20
Atmospheric science/meteorology, general	33	36	22	32	36	34	27	33	24	29
Atmospheric science/meteorology, other	14	15	16	10	17	12	23	21	18	25
Earth sciences	452	489	504	452	387	393	426	374	420	420
Geochemistry	49	49	58	55	50	41	70	53	38	55
Geology	162	165	171	157	123	115	132	119	98	107
Geomorphology/glacial geology	11	26	20	18	14	10	15	20	22	12
Geophysics/seismology	101	108	106	100	70	88	91	75	87	92
Hydrology/water resources	31	43	35	32	43	45	35	26	49	41
Mineralogy/petrology	23	19	14	14	5	15	13	8	17	8
Paleontology	14	23	23	15	31	16	21	18	25	29
Stratigraphy/sedimentation	12	23	24	17	13	13	7	16	19	15
Geological and related sciences, general	27	16	13	9	20	16	12	9	23	24
Geological and related sciences, other	22	17	40	35	18	34	30	30	42	37
Ocean sciences	147	166	136	147	164	151	146	170	140	149
Marine sciences	27	30	18	30	36	36	42	36	59	61
Oceanography	120	136	118	117	128	115	104	134	81	88
Mathematics/computer sciences	2,042	2,032	2,104	1,939	1,910	1,832	1,726	1,859	2,024	2,339
Computer sciences	920	909	927	856	860	825	807	866	948	1,136
Computer science	836	828	821	741	723	687	672	699	767	955
Information science/systems	84	81	106	115	137	81	80	65	106	85
Computer and information science, other[b]	NA	NA	NA	NA	NA	57	55	102	75	96
Mathematics	1,122	1,123	1,177	1,083	1,050	1,007	919	993	1,076	1,203
Algebra	78	78	75	84	82	68	65	69	97	97
Analysis/functional analysis	100	103	130	86	81	91	74	85	99	111
Applied mathematics	230	242	265	252	238	214	226	223	264	291
Computing theory	18	14	19	14	17	11	11	8	10	16
Geometry	72	70	54	65	59	40	52	48	95	96
Logic	16	23	16	23	19	24	14	17	15	26
Mathematical statistics	178	181	204	174	195	198	167	191	226	267
Number theory	42	46	46	50	40	35	26	46	39	62
Operations research	21	20	17	21	19	14	19	19	25	23
Topology	55	62	65	65	50	54	40	49	52	51
Mathematics, general	233	153	162	116	151	155	133	150	81	104
Mathematics, other	79	131	124	133	99	103	92	88	73	59
Physical sciences	3,826	3,746	3,800	3,562	3,378	3,364	3,185	3,289	3,338	3,647
Astronomy	192	198	206	159	185	186	141	167	165	186
Astronomy	84	71	91	59	78	89	52	69	68	72
Astrophysics	108	127	115	100	107	97	89	98	97	114
Chemistry	2,149	2,147	2,216	2,132	1,989	1,981	1,921	2,041	1,987	2,127
Analytical chemistry	346	350	383	333	326	334	302	338	323	364
Inorganic chemistry	249	279	287	279	221	279	248	264	240	255

TABLE 1. Doctorates awarded, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Medicinal/pharmaceutical chemistry	96	105	114	131	107	115	99	110	113	110
Nuclear chemistry[a]	5	8	6	10	9	4	9	4	NA	NA
Organic chemistry	507	567	598	563	525	523	523	556	542	600
Physical chemistry	300	334	279	310	271	285	302	321	264	298
Polymer chemistry	121	110	122	95	107	107	102	110	116	119
Theoretical chemistry	57	48	41	56	52	40	48	49	54	57
Chemistry, general	396	260	285	196	261	202	203	186	198	195
Chemistry, other	72	86	101	159	110	92	85	103	137	129
Physics	1,485	1,401	1,378	1,271	1,204	1,197	1,123	1,081	1,186	1,334
Acoustics	19	19	18	16	10	10	18	24	17	25
Applied physics[c]	NA	NA	NA	NA	NA	NA	NA	NA	71	101
Biophysics[c]	NA	NA	NA	NA	NA	NA	NA	NA	55	72
Chemical and atomic/molecular physics	129	106	100	100	110	81	82	74	82	87
Elementary particle physics	176	170	173	169	147	121	154	134	163	188
Fluids physics[a]	21	24	26	23	10	8	15	9	NA	NA
Nuclear physics	87	106	92	77	74	80	76	67	74	70
Optics	129	123	105	98	117	107	107	95	120	145
Plasma/high-temperature physics	48	39	55	49	38	39	29	32	37	54
Polymer physics	33	19	24	28	21	18	22	13	18	29
Solid state/low-temperature physics	364	328	314	307	279	295	298	273	277	314
Physics, general	323	255	190	202	224	206	171	170	141	129
Physics, other	156	212	281	202	174	232	151	190	131	120
Psychology	3,494	3,557	3,673	3,668	3,616	3,385	3,197	3,273	3,327	3,327
Clinical psychology	1,326	1,255	1,344	1,441	1,352	1,226	1,216	1,189	1,216	1,158
Cognitive psychology/psycholinguistics	128	166	113	143	141	141	121	132	145	147
Comparative psychology	3	6	6	11	7	5	2	4	6	5
Counseling	465	487	448	460	475	474	469	435	512	469
Developmental/child psychology	188	215	266	193	203	193	173	178	186	223
Educational psychology	92	61	61	64	97	48	54	52	75	81
Experimental psychology	128	146	149	139	133	134	112	119	88	120
Family/marriage counseling	51	63	51	56	54	45	67	62	32	25
Human/individual family development	151	126	119	135	147	137	139	149	144	172
Industrial/organizational psychology	162	187	189	158	188	173	154	157	157	184
Personality	24	26	25	16	23	11	17	17	18	14
Physiological/psychobiology	80	77	92	87	89	92	88	86	84	85
Psychometrics[a]	11	11	9	15	13	2	9	7	NA	NA
Quantitative psychology	19	17	15	14	8	10	13	11	29	23
School psychology	82	84	106	121	99	101	88	102	87	108
Social psychology	170	181	186	176	207	198	179	202	163	183
Psychology, general	281	319	300	235	238	223	145	224	221	187
Psychology, other	133	130	194	204	142	172	151	147	164	143
Social sciences	4,003	4,110	4,055	4,063	4,155	4,079	4,009	4,138	4,138	4,138
Economics	1,177	1,163	1,157	1,075	1,086	1,081	1,026	1,050	1,069	1,184
Agricultural economics	169	133	156	149	138	154	119	118	110	123
Econometrics	29	31	25	15	15	13	14	23	18	30
Economics	979	999	976	911	933	914	893	909	941	1,031
Political science	928	975	958	1,016	986	984	938	1,024	946	990
International relations and affairs	99	88	96	119	77	91	83	98	99	106
Political science/government	622	665	662	655	669	658	605	660	586	619
Public administration	103	95	104	117	103	96	103	120	116	103
Public policy analysis	104	127	96	125	137	139	147	146	145	162

TABLE 1. Doctorates awarded, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	528	601	579	572	637	577	566	612	599	555
Demography/population studies	11	24	30	28	20	12	20	15	19	20
Sociology	517	577	549	544	617	565	546	597	580	535
Other social sciences	1,370	1,371	1,361	1,400	1,446	1,437	1,479	1,452	1,524	1,409
American studies	115	84	100	98	113	127	97	94	115	104
Anthropology	397	434	425	462	446	411	495	472	531	455
Archaeology	21	35	34	26	36	39	26	33	34	44
Area studies	28	10	14	11	14	19	25	12	18	6
Criminology	60	49	55	51	66	62	56	77	69	96
Geography	165	149	154	144	197	186	197	167	190	196
History/philosophy of science and technology	37	35	44	50	42	40	47	46	48	43
Linguistics	230	244	220	251	230	230	193	224	254	211
Statistics	48	56	61	72	60	49	54	48	31	22
Urban affairs and studies	108	92	77	57	79	80	92	78	85	81
Social sciences, general	26	26	30	25	37	26	33	28	32	32
Social sciences, other	135	157	147	153	126	168	164	173	117	119
Engineering	6,309	6,114	5,921	5,330	5,323	5,508	5,077	5,279	5,775	6,404
Aeronautical/astronautical engineering	287	273	241	206	214	203	209	200	201	219
Chemical engineering	798	767	776	674	726	730	705	648	725	875
Chemical engineering	681	662	669	576	619	636	607	567	637	774
Petroleum engineering	52	51	48	45	45	37	45	36	34	50
Polymer/plastics engineering	65	54	59	53	62	57	53	45	54	51
Civil engineering	698	655	650	584	556	595	627	673	673	757
Civil engineering	600	592	587	506	480	501	539	551	547	621
Environmental health	98	63	63	78	76	94	88	122	126	136
Electrical engineering	1,741	1,720	1,595	1,478	1,543	1,577	1,393	1,465	1,650	1,852
Communications	32	33	40	39	42	47	22	36	34	27
Computer engineering	208	227	210	203	172	186	161	191	228	277
Electrical/electronics engineering	1,501	1,460	1,345	1,236	1,329	1,344	1,210	1,238	1,388	1,548
Industrial/manufacturing engineering	259	246	229	211	176	206	230	214	217	222
Materials/metallurgical engineering	574	582	565	469	451	497	396	474	511	540
Ceramic sciences	41	39	24	33	22	17	13	18	14	14
Materials science	472	483	482	393	404	448	364	437	475	493
Metallurgical engineering	61	60	59	43	25	32	19	19	22	33
Mechanical engineering	1,052	1,022	1,022	855	864	953	827	814	852	978
Engineering mechanics	105	93	86	69	57	75	56	62	98	86
Mechanical engineering	947	929	936	786	807	878	771	752	754	892
Other engineering	900	849	843	853	793	747	690	791	946	961
Agricultural engineering	104	79	74	59	60	52	49	54	60	47
Bioengineering/biomedical engineering	220	211	208	245	252	232	246	281	369	417
Engineering physics	37	24	15	28	26	22	16	28	28	27
Engineering science	52	45	49	49	34	53	31	39	58	42
Mining/mineral engineering	31	33	21	18	11	10	8	14	9	12
Nuclear engineering	113	102	94	76	98	75	64	75	59	71
Ocean engineering	26	34	29	16	18	28	23	12	21	18
Operations research	74	74	62	67	51	55	66	81	72	87
Systems engineering	47	49	68	42	34	47	45	45	58	56
Engineering, general	60	51	29	40	43	25	20	19	29	53
Engineering, other	136	147	194	213	166	148	122	143	183	131
Non-science and engineering	15,197	15,306	15,364	15,161	15,395	15,155	15,371	15,466	15,845	15,380
Education	6,785	6,573	6,569	6,546	6,432	6,332	6,491	6,638	6,633	6,229
Health	1,324	1,421	1,499	1,407	1,591	1,541	1,653	1,633	1,719	1,777

TABLE 1. Doctorates awarded, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	4,711	5,035	5,117	5,035	5,213	5,160	5,029	5,018	5,013	4,947
Professional/other/unknown	2,377	2,277	2,179	2,173	2,159	2,122	2,198	2,177	2,480	2,427

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

[a] This subfield was dropped in 2004.

[b] This subfield was introduced in 2001.

[c] This subfield was introduced in 2004.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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

TABLE 2. Doctorates awarded to women, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996(%)	2005(%)
All fields	16,955	17,241	17,848	17,481	18,126	17,855	18,117	18,496	19,157	19,564	40.0	45.1
Science and engineering	8,648	8,934	9,348	9,081	9,393	9,286	9,163	9,517	9,856	10,533	31.7	37.7
Science	7,871	8,184	8,575	8,293	8,555	8,356	8,272	8,606	8,835	9,359	37.6	43.4
Biological/agricultural sciences	2,719	2,782	2,864	2,705	2,939	2,889	2,864	2,978	3,155	3,481	39.7	47.0
Agricultural sciences	304	287	328	311	317	339	319	374	399	376	27.2	36.2
Agronomy/crop science	17	10	18	16	14	21	19	14	12	14	15.5	17.7
Animal breeding/genetics	3	4	6	7	4	4	2	6	7	3	25.0	21.4
Animal nutrition	11	13	13	12	8	6	17	9	7	12	20.4	23.5
Animal sciences, other	26	14	16	23	26	19	22	33	26	30	28.9	42.3
Conservation/renewable natural resources	3	7	11	9	5	18	12	13	26	25	23.1	39.1
Dairy science [a]	2	5	2	5	0	0	2	8	NA	NA	22.2	NA
Environmental science	23	27	30	31	43	47	41	57	63	52	27.7	40.3
Fisheries science/management	10	5	8	7	11	9	13	12	12	9	21.7	26.5
Food engineering	0	3	3	2	2	8	4	5	41	43	0.0	46.2
Food sciences, other	69	79	66	67	66	64	56	80	43	24	48.6	50.0
Forest biology	4	1	6	4	8	7	7	3	6	8	21.1	27.6
Forest engineering [a]	0	2	0	0	0	0	0	0	NA	NA	0.0	NA
Forest management	2	4	9	3	2	4	2	6	7	9	9.1	22.5
Forestry and related sciences, other	18	15	16	16	17	16	16	15	11	10	32.7	41.7
Horticulture science	22	16	13	16	16	13	13	18	12	17	30.1	34.7
Plant breeding/genetics	13	9	14	13	23	10	12	13	12	7	20.6	20.0
Plant pathology	27	26	24	27	12	16	22	18	25	33	30.0	46.5
Plant sciences, other	3	7	14	12	10	10	11	10	16	16	14.3	51.6
Poultry science	2	2	3	2	3	5	5	7	8	8	18.2	57.1
Soil chemistry/microbiology	9	9	7	8	8	15	8	10	13	13	31.0	54.2
Soil sciences, other	14	8	21	11	15	15	16	13	14	16	17.9	30.8
Wildlife/range management	22	13	15	8	11	15	9	12	15	13	34.4	29.5
Wood science and pulp/paper technology	3	2	4	6	1	4	2	5	8	2	16.7	13.3
Agricultural sciences, general	0	2	1	0	2	0	2	0	1	5	0.0	50.0
Agricultural sciences, other	1	4	8	6	10	13	6	7	14	7	25.0	41.2
Biological sciences	2,415	2,495	2,536	2,394	2,622	2,550	2,545	2,604	2,756	3,105	42.2	48.8
Anatomy	20	19	8	16	17	12	8	11	4	8	42.6	34.8
Bacteriology	8	1	4	6	6	10	7	2	5	7	50.0	53.8
Biochemistry	317	364	351	308	325	310	295	320	296	276	39.9	39.9
Biological immunology	129	93	115	100	116	122	146	121	167	170	54.2	49.6
Biomedical sciences	54	63	80	72	68	81	110	88	96	137	38.3	55.2
Biometrics/biostatistics	34	43	39	36	41	47	47	49	50	63	42.5	48.5
Biophysics	41	41	47	49	49	47	34	53	47	59	28.9	41.0
Biotechnology research	1	3	4	2	6	3	5	7	11	9	16.7	39.1
Botany, other	44	31	55	25	53	33	39	37	65	42	41.9	48.3
Cell biology	107	113	155	134	155	148	160	146	127	151	45.9	47.8
Developmental biology/embryology	49	61	61	54	61	53	34	71	71	86	51.0	53.1
Ecology	84	108	114	121	116	128	134	142	160	193	34.3	46.8
Endocrinology	13	9	14	9	8	7	6	12	11	19	54.2	65.5
Entomology	36	42	38	37	37	31	33	31	31	40	26.5	38.8
Human/animal genetics	101	103	91	105	114	106	109	124	118	143	47.6	49.8
Human/animal pathology	52	42	35	54	45	56	63	47	46	42	38.5	45.2
Human/animal pharmacology	142	143	120	113	123	115	113	126	147	173	44.9	54.9
Human/animal physiology	107	82	100	109	99	91	84	87	86	99	38.9	47.6
Microbiology	185	185	169	164	189	181	177	159	198	224	41.7	52.1
Molecular biology	291	331	322	299	320	323	270	289	362	362	44.7	49.9
Neuroscience	165	190	169	181	195	200	203	202	260	321	40.8	46.6
Nutritional sciences	98	92	96	68	126	99	107	102	102	126	69.0	77.3

TABLE 2. Doctorates awarded to women, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996(%)	2005(%)
Parasitology	12	10	6	6	8	10	6	6	10	10	54.5	47.6
Plant genetics	16	11	18	9	17	15	28	17	21	23	39.0	46.0
Plant pathology	13	8	8	12	8	11	15	12	14	13	34.2	41.9
Plant physiology	29	18	28	23	15	20	19	13	8	19	39.7	50.0
Toxicology	60	80	60	53	58	62	65	63	47	54	43.5	52.9
Zoology, other	31	34	43	47	55	40	46	56	35	50	31.0	48.5
Biological sciences, general	120	86	82	75	82	86	96	84	85	95	41.1	50.3
Biological sciences, other	56	89	104	107	110	103	86	127	76	91	40.6	46.0
Earth, atmospheric, and ocean sciences	152	191	198	185	196	198	211	213	238	243	21.0	34.1
Atmospheric sciences	22	25	30	22	33	28	31	39	46	51	17.6	35.4
Atmospheric dynamics	4	5	8	5	3	4	3	6	16	8	19.0	28.6
Atmospheric physics/chemistry	7	10	7	11	12	9	15	15	15	19	31.8	45.2
Meteorology	2	3	5	1	6	2	2	4	5	5	5.7	25.0
Atmospheric science/meteorology, general	5	5	8	2	7	10	6	5	7	11	15.2	37.9
Atmospheric science/meteorology, other	4	2	2	3	5	3	5	9	3	8	28.6	32.0
Earth sciences	88	119	127	112	108	115	121	104	132	127	19.5	30.2
Geochemistry	10	15	22	21	13	11	22	17	18	22	20.4	40.0
Geology	36	39	40	41	28	38	30	38	25	33	22.2	30.8
Geomorphology/glacial geology	1	4	8	9	4	3	6	3	8	3	9.1	25.0
Geophysics/seismology	14	19	21	15	16	22	24	17	26	26	13.9	28.3
Hydrology/water resources	5	8	8	5	16	14	10	4	12	7	16.1	17.1
Mineralogy/petrology	11	6	5	3	1	4	4	4	4	2	47.8	25.0
Paleontology	4	11	7	4	14	4	6	3	12	7	28.6	24.1
Stratigraphy/sedimentation	3	7	4	3	4	3	2	6	5	6	25.0	40.0
Geological and related sciences, general	2	4	5	1	5	6	3	2	6	6	7.4	25.0
Geological and related sciences, other	2	6	7	10	7	10	14	10	16	15	9.1	40.5
Ocean sciences	42	47	41	51	55	55	59	70	60	65	28.6	43.6
Marine sciences	5	8	3	9	18	15	17	21	29	25	18.5	41.0
Oceanography	37	39	38	42	37	40	42	49	31	40	30.8	45.5
Mathematics/computer sciences	370	413	456	434	400	431	432	440	504	551	18.1	23.6
Computer sciences	139	150	159	157	141	155	166	176	199	225	15.1	19.8
Computer science	116	132	120	120	103	111	124	120	137	157	13.9	16.4
Information science/systems	23	18	39	37	38	27	26	24	42	37	27.4	43.5
Computer and information science, other [b]	NA	NA	NA	NA	NA	17	16	32	20	31	NA	32.3
Mathematics	231	263	297	277	259	276	266	264	305	326	20.6	27.1
Algebra	18	20	18	25	21	20	15	23	28	25	23.1	25.8
Analysis/functional analysis	15	13	25	19	15	20	20	15	28	25	15.0	22.5
Applied mathematics	52	55	61	59	59	56	63	56	61	84	22.6	28.9
Computing theory	2	1	3	3	2	2	2	.	3	3	11.1	18.8
Geometry	14	13	15	16	8	7	12	10	29	13	19.4	13.5
Logic	1	5	5	5	2	6	5	5	2	4	6.3	15.4
Mathematical statistics	47	46	62	46	71	63	62	69	78	108	26.4	40.4
Number theory	7	11	7	12	5	8	5	7	5	9	16.7	14.5
Operations research	4	5	6	9	3	2	9	4	6	4	19.0	17.4
Topology	5	14	13	15	10	15	10	13	19	15	9.1	29.4
Mathematics, general	45	44	39	22	34	36	33	32	21	20	19.3	19.2
Mathematics, other	21	36	43	46	29	41	30	30	25	16	26.6	27.1
Physical sciences	839	843	917	825	827	828	847	891	865	972	21.9	26.7
Astronomy	41	37	45	33	40	41	27	40	46	49	21.4	26.3
Astronomy	21	18	22	18	24	21	12	18	24	26	25.0	36.1
Astrophysics	20	19	23	15	16	20	15	22	22	23	18.5	20.2

TABLE 2. Doctorates awarded to women, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996(%)	2005(%)
Chemistry	605	613	695	632	624	627	644	655	636	723	28.2	34.0
Analytical chemistry	111	106	146	108	121	123	114	137	119	179	32.1	49.2
Inorganic chemistry	68	81	84	90	64	90	86	96	80	83	27.3	32.5
Medicinal/pharmaceutical chemistry	32	43	46	50	51	45	39	42	48	49	33.3	44.5
Nuclear chemistry [a]	0	0	1	1	3	0	3	2	NA	NA	0.0	NA
Organic chemistry	118	145	160	163	140	132	142	145	143	153	23.3	25.5
Physical chemistry	85	91	77	75	76	92	102	84	81	87	28.3	29.2
Polymer chemistry	30	25	40	31	31	33	35	25	40	30	24.8	25.2
Theoretical chemistry	14	11	10	9	12	6	17	12	16	12	24.6	21.1
Chemistry, general	119	76	88	52	81	72	61	72	58	69	30.1	35.4
Chemistry, other	28	35	43	53	45	34	45	40	51	61	38.9	47.3
Physics	193	193	177	160	163	160	176	196	183	200	13.0	15.0
Acoustics	2	4	6	1	1	1	1	5	1	8	10.5	32.0
Applied physics [c]	NA	NA	NA	NA	NA	NA	NA	NA	7	16	NA	15.8
Biophysics [c]	NA	NA	NA	NA	NA	NA	NA	NA	8	18	NA	25.0
Chemical and atomic/molecular physics	10	11	13	14	21	7	11	14	11	18	7.8	20.7
Elementary particle physics	19	21	11	17	15	9	27	15	20	21	10.8	11.2
Fluids physics [a]	4	0	0	2	0	1	2	0	NA	NA	19.0	NA
Nuclear physics	9	11	11	9	9	13	18	10	12	4	10.3	5.7
Optics	20	16	18	12	16	14	19	23	21	24	15.5	16.6
Plasma/high-temperature physics	2	2	2	2	NA	3	3	2	4	10	4.2	18.5
Polymer physics	12	7	4	7	6	5	6	1	1	3	36.4	10.3
Solid state/low-temperature physics	54	51	37	42	42	32	48	48	41	41	14.8	13.1
Physics, general	39	36	29	22	31	23	21	28	28	17	12.1	13.2
Physics, other	22	34	46	32	22	52	20	50	29	20	14.1	16.7
Psychology	2,329	2,363	2,456	2,449	2,410	2,260	2,132	2,231	2,246	2,264	66.7	68.0
Clinical psychology	919	894	967	1,033	992	865	852	848	867	841	69.3	72.6
Cognitive psychology/psycholinguistics	60	75	50	70	66	76	67	70	76	70	46.9	47.6
Comparative psychology	2	3	4	7	2	1	1	2	4	3	66.7	60.0
Counseling	303	314	295	295	312	327	321	312	351	319	65.2	68.0
Developmental/child psychology	154	170	207	149	163	159	142	144	159	188	81.9	84.3
Educational psychology	66	45	39	44	63	31	38	42	54	56	71.7	69.1
Experimental psychology	68	70	65	65	59	72	63	65	45	69	53.1	57.5
Family/marriage counseling	28	43	28	38	29	22	35	42	19	13	54.9	52.0
Human/individual family development	121	101	91	112	103	97	95	111	93	128	80.1	74.4
Industrial/organizational psychology	99	103	110	99	113	105	85	86	84	111	61.1	60.3
Personality	11	13	15	11	14	6	12	11	10	9	45.8	64.3
Physiological/psychobiology	41	42	49	49	56	46	51	42	49	43	51.3	50.6
Psychometrics [a]	3	7	5	2	5	2	2	4	NA	NA	27.3	NA
Quantitative psychology	7	10	8	7	2	5	6	3	14	5	36.8	21.7
School psychology	71	66	81	89	78	82	67	72	73	81	86.6	75.0
Social psychology	111	116	117	115	135	107	104	129	109	115	65.3	62.8
Psychology, general	181	199	201	132	133	152	85	142	128	119	64.4	63.6
Psychology, other	84	92	124	132	85	105	106	106	111	94	63.2	65.7
Social sciences	1,462	1,592	1,684	1,695	1,783	1,750	1,786	1,853	1,827	1,848	36.5	44.7
Economics	263	266	312	291	293	306	281	303	315	355	22.3	30.0
Agricultural economics	37	34	40	39	38	46	31	41	30	37	21.9	30.1
Econometrics	8	4	4	5	3	2	2	6	3	9	27.6	30.0
Economics	218	228	268	247	252	258	248	256	282	309	22.3	30.0
Political science	305	298	364	356	364	330	395	398	346	409	32.9	41.3
International relations and affairs	32	19	32	38	26	31	34	28	39	40	32.3	37.7
Political science/government	186	197	243	216	235	214	252	251	196	245	29.9	39.6

TABLE 2. Doctorates awarded to women, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996(%)	2005(%)
Public administration	37	30	48	46	42	41	36	48	46	46	35.9	44.7
Public policy analysis	50	52	41	56	61	44	73	71	65	78	48.1	48.1
Sociology	276	334	317	342	376	337	345	361	353	344	52.3	62.0
Demography/population studies	2	16	13	17	10	8	12	9	13	10	18.2	50.0
Sociology	274	318	304	325	366	329	333	352	340	334	53.0	62.4
Other social sciences	618	694	691	706	750	777	765	791	813	740	45.1	52.5
American studies	67	47	52	56	63	87	56	66	67	57	58.3	54.8
Anthropology	214	241	239	262	252	245	290	288	293	256	53.9	56.3
Archaeology	11	20	23	12	24	18	15	20	18	29	52.4	65.9
Area studies	9	5	11	3	4	10	14	7	11	2	32.1	33.3
Criminology	25	25	22	20	34	29	30	31	40	45	41.7	46.9
Geography	45	54	49	49	70	66	64	65	85	68	27.3	34.7
History/philosophy of science and technology	10	13	20	18	17	8	12	23	12	16	27.0	37.2
Linguistics	113	135	123	148	135	136	115	133	150	137	49.1	64.9
Statistics	7	23	21	21	22	22	22	19	15	12	14.6	54.5
Urban affairs and studies	39	29	26	17	28	33	35	33	33	30	36.1	37.0
Social sciences, general	15	14	17	14	20	20	17	11	20	20	57.7	62.5
Social sciences, other	63	88	88	86	81	103	95	95	69	68	46.7	57.1
Engineering	777	750	773	788	838	930	891	911	1,021	1,174	12.3	18.3
Aeronautical/astronautical engineering	24	16	15	17	21	28	24	27	24	29	8.4	13.2
Chemical engineering	143	122	140	123	152	180	176	154	173	210	17.9	24.0
Chemical engineering	126	106	119	101	131	156	150	140	150	183	18.5	23.6
Petroleum engineering	3	3	6	5	6	7	10	5	5	14	5.8	28.0
Polymer/plastics engineering	14	13	15	17	15	17	16	9	18	13	21.5	25.5
Civil engineering	79	80	100	89	88	111	121	126	134	176	11.3	23.2
Civil engineering	64	70	83	76	78	82	97	87	86	118	10.7	19.0
Environmental health	15	10	17	13	10	29	24	39	48	58	15.3	42.6
Electrical engineering	169	150	156	155	195	204	163	181	227	249	9.7	13.4
Communications	2	3	6	6	7	12	4	7	3	3	6.3	11.1
Computer engineering	23	21	22	32	31	33	16	27	30	41	11.1	14.8
Electrical/electronics engineering	144	126	128	117	157	159	143	147	194	205	9.6	13.2
Industrial/manufacturing engineering	51	40	40	42	35	45	67	55	43	41	19.7	18.5
Materials/metallurgical engineering	84	106	84	88	83	105	80	101	91	120	14.6	22.2
Ceramic sciences	3	8	2	9	8	3	1	1	1	5	7.3	35.7
Materials science	72	96	75	75	73	99	78	99	85	112	15.3	22.7
Metallurgical engineering	9	2	7	4	2	3	1	1	5	3	14.8	9.1
Mechanical engineering	78	88	93	96	96	91	96	88	95	120	7.4	12.3
Engineering mechanics	10	6	13	11	7	5	8	10	11	6	9.5	7.0
Mechanical engineering	68	82	80	85	89	86	88	78	84	114	7.2	12.8
Other engineering	149	148	145	178	168	166	164	179	234	229	16.6	23.8
Agricultural engineering	17	12	5	12	7	8	9	7	14	9	16.3	19.1
Bioengineering/biomedical engineering	49	54	51	63	71	69	69	78	111	110	22.3	26.4
Engineering physics	3	4	3	4	1	2	3	9	8	7	8.1	25.9
Engineering science	4	7	8	4	6	9	8	3	12	11	7.7	26.2
Mining/mineral engineering	3	3	4	2	0	2	0	1	2	0	9.7	0.0
Nuclear engineering	9	8	9	8	9	6	13	12	11	8	8.0	11.3
Ocean engineering	3	5	0	1	3	3	3	1	3	7	11.5	38.9
Operations research	16	15	15	16	11	17	13	21	11	20	21.6	23.0
Systems engineering	9	10	9	7	6	8	9	8	11	9	19.1	16.1
Engineering, general	11	3	3	4	10	4	7	4	6	12	18.3	22.6
Engineering, other	25	27	38	57	44	38	30	35	45	36	18.4	27.5
Non-science and engineering	8,307	8,307	8,500	8,400	8,733	8,569	8,954	8,979	9,301	9,031	54.7	58.7
Education	4,187	4,121	4,131	4,195	4,174	4,092	4,292	4,389	4,370	4,154	61.7	66.7
Health	860	936	1,005	899	1,066	989	1,125	1,089	1,179	1,209	65.0	68.0

TABLE 2. Doctorates awarded to women, by field of study: 1996–2005

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996(%)	2005(%)
Humanities	2,343	2,381	2,469	2,419	2,593	2,578	2,523	2,518	2,597	2,485	49.7	50.2
Professional/other/unknown	917	869	895	887	900	910	1,014	983	1,155	1,183	38.6	48.7

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

[a] This subfield was dropped in 2004.

[b] This subfield was introduced in 2001.

[c] This subfield was introduced in 2004.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	42,437	42,535	42,637	41,092	41,361	40,651	39,953	40,740	42,117	43,354
Science and engineering	27,240	27,229	27,273	25,931	25,966	25,496	24,582	25,274	26,272	27,974
Science	20,931	21,115	21,352	20,601	20,643	19,988	19,505	19,995	20,497	21,570
Agricultural sciences	1,118	1,078	1,109	1,065	1,037	975	1,009	1,060	1,045	1,038
Biological sciences	5,724	5,788	5,846	5,581	5,853	5,693	5,690	5,693	5,939	6,368
Computer sciences	920	909	927	856	860	825	807	866	948	1,136
Earth, atmospheric, and ocean sciences	724	804	765	723	694	660	689	683	686	713
Mathematics	1,122	1,123	1,177	1,083	1,050	1,007	919	993	1,076	1,203
Physical sciences	3,826	3,746	3,800	3,562	3,378	3,364	3,185	3,289	3,338	3,647
Astronomy	192	198	206	159	185	186	141	167	165	186
Chemistry	2,149	2,147	2,216	2,132	1,989	1,981	1,921	2,041	1,987	2,127
Physics	1,485	1,401	1,378	1,271	1,204	1,197	1,123	1,081	1,186	1,334
Psychology	3,494	3,557	3,673	3,668	3,616	3,385	3,197	3,273	3,327	3,327
Social sciences	4,003	4,110	4,055	4,063	4,155	4,079	4,009	4,138	4,138	4,138
Engineering	6,309	6,114	5,921	5,330	5,323	5,508	5,077	5,279	5,775	6,404
Aeronautical/astronautical engineering	287	273	241	206	214	203	209	200	201	219
Chemical engineering	798	767	776	674	726	730	705	648	725	875
Civil engineering	698	655	650	584	556	595	627	673	673	757
Electrical engineering	1,741	1,720	1,595	1,478	1,543	1,577	1,393	1,465	1,650	1,852
Industrial engineering	259	246	229	211	176	206	230	214	217	222
Materials/metallurgical engineering	574	582	565	469	451	497	396	474	511	540
Mechanical engineering	1,052	1,022	1,022	855	864	953	827	814	852	978
Other engineering	900	849	843	853	793	747	690	791	946	961
Non-science and engineering	15,197	15,306	15,364	15,161	15,395	15,155	15,371	15,466	15,845	15,380
Education	6,785	6,573	6,569	6,546	6,432	6,332	6,491	6,638	6,633	6,229
Health	1,324	1,421	1,499	1,407	1,591	1,541	1,653	1,633	1,719	1,777
Humanities	4,711	5,035	5,117	5,035	5,213	5,160	5,029	5,018	5,013	4,947
Professional/other/unknown	2,377	2,277	2,179	2,173	2,159	2,122	2,198	2,177	2,480	2,427
Male, all fields	25,285	24,937	24,628	23,434	23,161	22,719	21,750	22,244	22,959	23,731
Science and engineering	18,454	18,080	17,809	16,734	16,519	16,166	15,369	15,757	16,415	17,405
Science	12,966	12,765	12,699	12,230	12,060	11,598	11,197	11,389	11,661	12,190
Agricultural sciences	813	783	780	749	718	629	683	686	646	659
Biological sciences	3,287	3,261	3,295	3,170	3,225	3,134	3,143	3,089	3,183	3,257
Computer sciences	775	743	765	692	717	668	638	690	749	909
Earth, atmospheric, and ocean sciences	565	608	563	535	495	461	478	470	448	470
Mathematics	881	851	873	803	790	731	650	729	771	875
Physical sciences	2,960	2,879	2,865	2,722	2,546	2,531	2,334	2,398	2,472	2,672
Astronomy	151	161	161	126	145	145	114	127	119	137
Chemistry	1,526	1,522	1,509	1,493	1,361	1,350	1,276	1,386	1,350	1,403
Physics	1,283	1,196	1,195	1,103	1,040	1,036	944	885	1,003	1,132
Psychology	1,162	1,162	1,205	1,209	1,203	1,121	1,060	1,042	1,081	1,062
Social sciences	2,523	2,478	2,353	2,350	2,366	2,323	2,211	2,285	2,311	2,286
Engineering	5,488	5,315	5,110	4,504	4,459	4,568	4,172	4,368	4,754	5,215
Aeronautical/astronautical engineering	262	254	225	188	191	174	185	173	177	190
Chemical engineering	653	641	630	550	571	547	527	494	552	662
Civil engineering	616	571	544	495	466	483	505	547	539	580
Electrical engineering	1,556	1,560	1,428	1,310	1,338	1,372	1,223	1,284	1,423	1,598
Industrial engineering	208	205	188	169	140	160	162	159	174	178
Materials/metallurgical engineering	483	470	477	376	367	392	315	373	420	419
Mechanical engineering	963	928	923	751	767	860	729	726	757	858
Other engineering	747	686	695	665	619	580	526	612	712	730
Non-science and engineering	6,831	6,857	6,819	6,700	6,642	6,553	6,381	6,487	6,544	6,326
Education	2,579	2,392	2,421	2,335	2,255	2,235	2,186	2,249	2,263	2,065
Health	456	469	489	499	522	542	526	544	540	565
Humanities	2,351	2,619	2,639	2,590	2,615	2,574	2,496	2,500	2,416	2,457

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Professional/other/unknown	1,445	1,377	1,270	1,276	1,250	1,202	1,173	1,194	1,325	1,239
Female, all fields	16,955	17,241	17,848	17,481	18,126	17,855	18,117	18,496	19,157	19,564
Science and engineering	8,648	8,934	9,348	9,081	9,393	9,286	9,163	9,517	9,856	10,533
Science	7,871	8,184	8,575	8,293	8,555	8,356	8,272	8,606	8,835	9,359
Agricultural sciences	304	287	328	311	317	339	319	374	399	376
Biological sciences	2,415	2,495	2,536	2,394	2,622	2,550	2,545	2,604	2,756	3,105
Computer sciences	139	150	159	157	141	155	166	176	199	225
Earth, atmospheric, and ocean sciences	152	191	198	185	196	198	211	213	238	243
Mathematics	231	263	297	277	259	276	266	264	305	326
Physical sciences	839	843	917	825	827	828	847	891	865	972
Astronomy	41	37	45	33	40	41	27	40	46	49
Chemistry	605	613	695	632	624	627	644	655	636	723
Physics	193	193	177	160	163	160	176	196	183	200
Psychology	2,329	2,363	2,456	2,449	2,410	2,260	2,132	2,231	2,246	2,264
Social sciences	1,462	1,592	1,684	1,695	1,783	1,750	1,786	1,853	1,827	1,848
Engineering	777	750	773	788	838	930	891	911	1,021	1,174
Aeronautical/astronautical engineering	24	16	15	17	21	28	24	27	24	29
Chemical engineering	143	122	140	123	152	180	176	154	173	210
Civil engineering	79	80	100	89	88	111	121	126	134	176
Electrical engineering	169	150	156	155	195	204	163	181	227	249
Industrial engineering	51	40	40	42	35	45	67	55	43	41
Materials/metallurgical engineering	84	106	84	88	83	105	80	101	91	120
Mechanical engineering	78	88	93	96	96	91	96	88	95	120
Other engineering	149	148	145	178	168	166	164	179	234	229
Non-science and engineering	8,307	8,307	8,500	8,400	8,733	8,569	8,954	8,979	9,301	9,031
Education	4,187	4,121	4,131	4,195	4,174	4,092	4,292	4,389	4,370	4,154
Health	860	936	1,005	899	1,066	989	1,125	1,089	1,179	1,209
Humanities	2,343	2,381	2,469	2,419	2,593	2,578	2,523	2,518	2,597	2,485
Professional/other/unknown	917	869	895	887	900	910	1,014	983	1,155	1,183
U.S. citizen or permanent resident, all fields	31,542	31,083	31,195	30,302	29,936	28,800	27,650	28,129	28,004	27,912
Science and engineering	18,648	18,393	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
Science	15,259	15,061	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
Agricultural sciences	628	620	591	561	559	506	492	562	566	557
Biological sciences	4,365	4,256	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
Computer sciences	514	520	563	493	458	424	420	446	447	473
Earth, atmospheric, and ocean sciences	515	555	533	471	474	411	433	451	438	442
Mathematics	648	629	673	605	574	526	443	517	511	541
Physical sciences	2,561	2,479	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
Astronomy	149	158	147	117	139	124	106	130	115	120
Chemistry	1,463	1,438	1,471	1,406	1,241	1,233	1,228	1,266	1,184	1,213
Physics	949	883	824	742	692	678	589	555	559	567
Psychology	3,233	3,125	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
Social sciences	2,795	2,877	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
Engineering	3,389	3,332	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
Aeronautical/astronautical engineering	184	168	153	112	127	102	92	80	77	98
Chemical engineering	391	409	374	371	383	362	335	292	314	331
Civil engineering	305	327	297	312	261	270	248	269	224	252
Electrical engineering	929	940	805	766	649	564	506	502	500	566
Industrial engineering	136	119	101	99	77	89	81	71	77	76
Materials/metallurgical engineering	337	315	313	261	244	225	175	200	211	194
Mechanical engineering	588	538	517	464	396	428	343	333	298	323
Other engineering	519	516	487	506	436	412	385	431	486	444
Non-science and engineering	12,894	12,690	12,907	12,733	12,820	12,481	12,139	12,396	12,260	11,888
Education	6,075	5,745	5,748	5,816	5,685	5,449	5,404	5,643	5,449	5,245
Health	1,016	1,028	1,154	1,049	1,194	1,131	1,193	1,223	1,265	1,283

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	4,047	4,238	4,330	4,295	4,393	4,378	4,114	4,137	4,056	3,859
Professional/other/unknown	1,756	1,679	1,675	1,573	1,548	1,523	1,428	1,393	1,490	1,501
Male U.S. citizen or permanent resident, all fields	17,204	16,879	16,562	15,898	15,292	14,626	13,716	13,898	13,745	13,573
Science and engineering	11,683	11,390	11,087	10,496	9,980	9,447	8,808	8,903	8,891	8,884
Science	8,820	8,571	8,498	8,098	7,899	7,475	7,086	7,166	7,176	7,079
Agricultural sciences	443	443	386	376	364	311	310	362	340	333
Biological sciences	2,424	2,333	2,392	2,259	2,280	2,275	2,195	2,141	2,190	2,227
Computer sciences	423	419	439	387	372	326	323	347	345	368
Earth, atmospheric, and ocean sciences	394	404	376	336	329	273	270	298	263	278
Mathematics	503	452	473	413	409	371	308	365	357	390
Physical sciences	1,953	1,897	1,841	1,718	1,532	1,512	1,393	1,390	1,356	1,338
Astronomy	114	132	120	91	104	95	85	100	82	86
Chemistry	1,024	1,006	1,005	980	819	826	810	849	801	767
Physics	815	759	716	647	609	591	498	441	473	485
Psychology	1,048	1,014	1,058	1,064	1,051	973	914	891	897	901
Social sciences	1,632	1,609	1,533	1,545	1,562	1,434	1,373	1,372	1,428	1,244
Engineering	2,863	2,819	2,589	2,398	2,081	1,972	1,722	1,737	1,715	1,805
Aeronautical/astronautical engineering	166	156	141	102	113	83	81	69	67	87
Chemical engineering	293	332	297	296	282	269	247	220	234	247
Civil engineering	258	269	239	251	213	204	191	200	158	173
Electrical engineering	823	834	713	685	556	496	440	437	432	485
Industrial engineering	100	91	77	68	59	61	49	49	57	59
Materials/metallurgical engineering	273	244	262	206	190	171	129	155	173	145
Mechanical engineering	528	482	462	404	340	390	299	293	254	280
Other engineering	422	411	398	386	328	298	286	314	340	329
Non-science and engineering	5,521	5,489	5,475	5,402	5,312	5,179	4,908	4,995	4,854	4,689
Education	2,243	2,049	2,050	2,015	1,926	1,889	1,799	1,858	1,801	1,685
Health	293	287	311	329	340	330	337	351	344	364
Humanities	2,001	2,198	2,220	2,211	2,217	2,152	2,072	2,081	1,992	1,934
Professional/other/unknown	984	955	894	847	829	808	700	705	717	706
Female U.S. citizen or permanent resident, all fields	14,338	14,171	14,605	14,404	14,639	14,174	13,933	14,231	14,259	14,337
Science and engineering	6,965	6,989	7,184	7,073	7,134	6,872	6,702	6,830	6,853	7,138
Science	6,439	6,477	6,732	6,580	6,642	6,392	6,259	6,389	6,381	6,660
Agricultural sciences	185	176	205	185	195	195	181	200	226	224
Biological sciences	1,941	1,920	1,925	1,864	1,988	1,973	1,918	1,918	2,006	2,168
Computer sciences	91	100	123	106	86	98	97	99	102	105
Earth, atmospheric, and ocean sciences	121	150	157	135	145	138	163	153	175	164
Mathematics	145	177	199	192	164	155	135	152	154	151
Physical sciences	608	581	599	547	540	523	530	561	502	562
Astronomy	35	26	27	26	35	29	21	30	33	34
Chemistry	439	431	465	426	422	407	418	417	383	446
Physics	134	124	107	95	83	87	91	114	86	82
Psychology	2,185	2,106	2,212	2,229	2,178	2,004	1,879	1,964	1,891	1,990
Social sciences	1,163	1,267	1,312	1,322	1,346	1,306	1,356	1,342	1,325	1,296
Engineering	526	512	452	493	492	480	443	441	472	478
Aeronautical/astronautical engineering	18	12	12	10	14	19	11	11	10	11
Chemical engineering	98	77	76	75	101	93	88	72	80	84
Civil engineering	47	58	58	61	48	66	57	69	66	79
Electrical engineering	106	106	91	81	93	68	66	65	68	80
Industrial engineering	36	28	24	31	18	28	32	22	20	17
Materials/metallurgical engineering	64	71	51	55	54	54	46	45	38	49
Mechanical engineering	60	55	51	60	56	38	44	40	44	43
Other engineering	97	105	89	120	108	114	99	117	146	115
Non-science and engineering	7,373	7,182	7,421	7,331	7,505	7,302	7,231	7,401	7,406	7,199
Education	3,832	3,687	3,692	3,801	3,758	3,560	3,605	3,785	3,648	3,560

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	723	740	843	720	854	801	856	872	921	919
Humanities	2,046	2,035	2,106	2,084	2,175	2,226	2,042	2,056	2,064	1,925
Professional/other/unknown	772	720	780	726	718	715	728	688	773	795
U.S. citizen, all fields	27,777	28,151	28,533	27,992	27,986	26,975	25,998	26,499	26,466	26,312
Science and engineering	15,639	16,112	16,297	15,915	15,707	15,049	14,341	14,635	14,741	14,912
Science	13,043	13,373	13,728	13,428	13,484	12,896	12,448	12,723	12,796	12,913
Agricultural sciences	517	532	506	506	498	469	460	521	531	527
Biological sciences	3,547	3,670	3,773	3,659	3,904	3,909	3,798	3,796	3,963	4,141
Computer sciences	422	430	479	421	389	369	356	389	397	405
Earth, atmospheric, and ocean sciences	426	488	477	423	444	382	397	419	415	421
Mathematics	490	530	581	539	518	471	412	471	456	480
Physical sciences	2,069	2,115	2,134	2,024	1,871	1,854	1,762	1,800	1,740	1,768
Astronomy	137	151	132	111	127	120	101	125	113	120
Chemistry	1,170	1,233	1,294	1,256	1,119	1,131	1,135	1,172	1,112	1,131
Physics	762	731	708	657	625	603	526	503	515	517
Psychology	3,129	3,036	3,187	3,223	3,155	2,902	2,722	2,786	2,723	2,811
Social sciences	2,443	2,572	2,591	2,633	2,705	2,540	2,541	2,541	2,571	2,360
Engineering	2,596	2,739	2,569	2,487	2,223	2,153	1,893	1,912	1,945	1,999
Aeronautical/astronautical engineering	166	155	140	103	117	94	82	70	71	93
Chemical engineering	318	321	328	333	340	333	301	272	292	294
Civil engineering	212	249	246	261	221	223	211	239	190	211
Electrical engineering	708	753	639	639	533	469	422	410	421	466
Industrial engineering	107	102	84	86	67	74	71	55	63	59
Materials/metallurgical engineering	245	271	265	225	221	202	164	176	192	177
Mechanical engineering	436	456	435	399	341	386	286	288	270	292
Other engineering	404	432	432	441	383	372	356	402	446	407
Non-science and engineering	12,138	12,039	12,236	12,077	12,279	11,926	11,657	11,864	11,725	11,400
Education	5,879	5,580	5,581	5,638	5,559	5,334	5,292	5,514	5,333	5,136
Health	933	959	1,073	972	1,119	1,063	1,125	1,164	1,192	1,206
Humanities	3,728	3,948	4,031	4,010	4,161	4,113	3,913	3,900	3,812	3,643
Professional/other/unknown	1,598	1,552	1,551	1,457	1,440	1,416	1,327	1,286	1,388	1,415
Male U.S. citizen, all fields	14,721	15,044	14,918	14,518	14,157	13,630	12,845	13,085	12,993	12,791
Science and engineering	9,582	9,883	9,770	9,444	9,081	8,704	8,144	8,313	8,337	8,286
Science	7,404	7,559	7,577	7,384	7,279	6,963	6,618	6,775	6,805	6,684
Agricultural sciences	363	377	334	338	324	292	291	346	325	319
Biological sciences	1,962	2,031	2,087	2,010	2,096	2,120	2,064	2,029	2,086	2,116
Computer sciences	345	347	375	330	316	284	278	310	309	316
Earth, atmospheric, and ocean sciences	320	356	339	303	309	254	246	276	252	267
Mathematics	385	387	409	374	373	333	289	340	324	360
Physical sciences	1,604	1,646	1,625	1,559	1,395	1,389	1,282	1,306	1,287	1,252
Astronomy	106	126	109	87	95	93	80	97	81	86
Chemistry	837	881	897	894	744	766	753	805	766	719
Physics	661	639	619	578	556	530	449	404	440	447
Psychology	1,022	987	1,027	1,043	1,021	949	888	869	878	883
Social sciences	1,403	1,428	1,381	1,427	1,445	1,342	1,280	1,299	1,344	1,171
Engineering	2,178	2,324	2,193	2,060	1,802	1,741	1,526	1,538	1,532	1,602
Aeronautical/astronautical engineering	150	143	128	93	103	77	72	61	61	82
Chemical engineering	235	260	263	268	248	251	228	204	221	227
Civil engineering	175	204	196	207	179	164	162	176	134	147
Electrical engineering	625	679	573	577	464	425	377	364	368	410
Industrial engineering	76	77	62	58	50	51	43	38	45	45
Materials/metallurgical engineering	198	213	228	176	174	155	122	141	160	133
Mechanical engineering	391	409	393	347	294	352	252	257	228	256
Other engineering	328	339	350	334	290	266	270	297	315	302
Non-science and engineering	5,139	5,161	5,148	5,074	5,076	4,926	4,701	4,772	4,656	4,505

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Education	2,154	1,974	1,983	1,948	1,883	1,837	1,762	1,812	1,765	1,650
Health	248	254	274	285	308	302	312	326	323	338
Humanities	1,855	2,065	2,078	2,066	2,118	2,049	1,983	1,985	1,899	1,843
Professional/other/unknown	882	868	813	775	767	738	644	649	669	674
Female U.S. citizen, all fields	13,056	13,075	13,603	13,474	13,826	13,345	13,152	13,414	13,473	13,519
Science and engineering	6,057	6,216	6,521	6,471	6,625	6,345	6,196	6,322	6,404	6,624
Science	5,639	5,802	6,146	6,044	6,204	5,933	5,829	5,948	5,991	6,228
Agricultural sciences	154	154	172	168	174	177	168	175	206	208
Biological sciences	1,585	1,637	1,686	1,649	1,808	1,789	1,734	1,767	1,877	2,024
Computer sciences	77	82	104	91	73	85	78	79	88	89
Earth, atmospheric, and ocean sciences	106	131	138	120	135	128	151	143	163	154
Mathematics	105	143	172	165	145	138	123	131	132	120
Physical sciences	465	468	509	465	476	465	480	494	453	516
Astronomy	31	25	23	24	32	27	21	28	32	34
Chemistry	333	351	397	362	375	365	382	367	346	412
Physics	101	92	89	79	69	73	77	99	75	70
Psychology	2,107	2,044	2,156	2,180	2,133	1,953	1,834	1,917	1,845	1,928
Social sciences	1,040	1,143	1,209	1,206	1,260	1,198	1,261	1,242	1,227	1,189
Engineering	418	414	375	427	421	412	367	374	413	396
Aeronautical/astronautical engineering	16	12	12	10	14	17	10	9	10	11
Chemical engineering	83	61	64	65	92	82	73	68	71	67
Civil engineering	37	45	50	54	42	59	49	63	56	64
Electrical engineering	83	74	66	62	69	44	45	46	53	55
Industrial engineering	31	25	22	28	17	23	28	17	18	14
Materials/metallurgical engineering	47	58	37	49	47	47	42	35	32	44
Mechanical engineering	45	46	42	52	47	34	34	31	42	36
Other engineering	76	93	82	107	93	106	86	105	131	105
Non-science and engineering	6,999	6,859	7,082	7,003	7,201	7,000	6,956	7,092	7,069	6,895
Education	3,725	3,597	3,594	3,690	3,675	3,497	3,530	3,702	3,568	3,486
Health	685	704	799	687	811	761	813	838	869	868
Humanities	1,873	1,878	1,952	1,944	2,043	2,064	1,930	1,915	1,913	1,800
Professional/other/unknown	716	680	737	682	672	678	683	637	719	741
Non-U.S. citizen with permanent visa, all fields	3,765	2,932	2,662	2,310	1,950	1,825	1,652	1,630	1,538	1,600
Science and engineering	3,009	2,281	1,991	1,654	1,409	1,270	1,170	1,098	1,003	1,112
Science	2,216	1,688	1,513	1,250	1,059	971	898	832	761	827
Agricultural sciences	111	88	85	55	61	37	32	41	35	30
Biological sciences	818	586	546	464	364	339	315	263	233	255
Computer sciences	92	90	84	72	69	55	64	57	50	68
Earth, atmospheric, and ocean sciences	89	67	56	48	30	29	36	32	23	21
Mathematics	158	99	92	66	56	55	31	46	55	61
Physical sciences	492	364	308	241	201	181	161	151	118	132
Astronomy	12	7	15	6	12	4	5	5	2	0
Chemistry	293	205	177	150	122	102	93	94	72	82
Physics	187	152	116	85	67	75	63	52	44	50
Psychology	104	89	87	70	75	75	71	69	65	80
Social sciences	352	305	255	234	203	200	188	173	182	180
Engineering	793	593	478	404	350	299	272	266	242	285
Aeronautical/astronautical engineering	18	13	13	9	10	8	10	10	6	5
Chemical engineering	73	88	46	38	43	29	34	20	22	37
Civil engineering	93	78	51	51	40	47	37	30	34	41
Electrical engineering	221	187	166	127	116	95	84	92	79	100
Industrial engineering	29	17	17	13	10	15	10	16	14	17
Materials/metallurgical engineering	92	44	48	36	23	23	11	24	19	17
Mechanical engineering	152	82	82	65	55	42	57	45	28	31
Other engineering	115	84	55	65	53	40	29	29	40	37

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	756	651	671	656	541	555	482	532	535	488
Education	196	165	167	178	126	115	112	129	116	109
Health	83	69	81	77	75	68	68	59	73	77
Humanities	319	290	299	285	232	265	201	237	244	216
Professional/other/unknown	158	127	124	116	108	107	101	107	102	86
Male non-U.S. citizen with permanent visa, all fields	2,483	1,835	1,644	1,380	1,135	996	871	813	752	782
Science and engineering	2,101	1,507	1,317	1,052	899	743	664	590	554	598
Science	1,416	1,012	921	714	620	512	468	391	371	395
Agricultural sciences	80	66	52	38	40	19	19	16	15	14
Biological sciences	462	302	305	249	184	155	131	112	104	111
Computer sciences	78	72	64	57	56	42	45	37	36	52
Earth, atmospheric, and ocean sciences	74	48	37	33	20	19	24	22	11	11
Mathematics	118	65	64	39	36	38	19	25	33	30
Physical sciences	349	251	216	159	137	123	111	84	69	86
Astronomy	8	6	11	4	9	2	5	3	1	0
Chemistry	187	125	108	86	75	60	57	44	35	48
Physics	154	120	97	69	53	61	49	37	33	38
Psychology	26	27	31	21	30	24	26	22	19	18
Social sciences	229	181	152	118	117	92	93	73	84	73
Engineering	685	495	396	338	279	231	196	199	183	203
Aeronautical/astronautical engineering	16	13	13	9	10	6	9	8	6	5
Chemical engineering	58	72	34	28	34	18	19	16	13	20
Civil engineering	83	65	43	44	34	40	29	24	24	26
Electrical engineering	198	155	140	108	92	71	63	73	64	75
Industrial engineering	24	14	15	10	9	10	6	11	12	14
Materials/metallurgical engineering	75	31	34	30	16	16	7	14	13	12
Mechanical engineering	137	73	69	57	46	38	47	36	26	24
Other engineering	94	72	48	52	38	32	16	17	25	27
Non-science and engineering	382	328	327	328	236	253	207	223	198	184
Education	89	75	67	67	43	52	37	46	36	35
Health	45	33	37	44	32	28	25	25	21	26
Humanities	146	133	142	145	99	103	89	96	93	91
Professional/other/unknown	102	87	81	72	62	70	56	56	48	32
Female non-U.S. citizen with permanent visa, all fields	1,282	1,096	1,002	930	813	829	781	817	786	818
Science and engineering	908	773	663	602	509	527	506	508	449	514
Science	800	675	586	536	438	459	430	441	390	432
Agricultural sciences	31	22	33	17	21	18	13	25	20	16
Biological sciences	356	283	239	215	180	184	184	151	129	144
Computer sciences	14	18	19	15	13	13	19	20	14	16
Earth, atmospheric, and ocean sciences	15	19	19	15	10	10	12	10	12	10
Mathematics	40	34	27	27	19	17	12	21	22	31
Physical sciences	143	113	90	82	64	58	50	67	49	46
Astronomy	4	1	4	2	3	2	0	2	1	0
Chemistry	106	80	68	64	47	42	36	50	37	34
Physics	33	32	18	16	14	14	14	15	11	12
Psychology	78	62	56	49	45	51	45	47	46	62
Social sciences	123	124	103	116	86	108	95	100	98	107
Engineering	108	98	77	66	71	68	76	67	59	82
Aeronautical/astronautical engineering	2	0	0	0	0	2	1	2	0	0
Chemical engineering	15	16	12	10	9	11	15	4	9	17
Civil engineering	10	13	8	7	6	7	8	6	10	15
Electrical engineering	23	32	25	19	24	24	21	19	15	25
Industrial engineering	5	3	2	3	1	5	4	5	2	3
Materials/metallurgical engineering	17	13	14	6	7	7	4	10	6	5
Mechanical engineering	15	9	9	8	9	4	10	9	2	7
Other engineering	21	12	7	13	15	8	13	12	15	10

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	374	323	339	328	304	302	275	309	337	304
Education	107	90	98	111	83	63	75	83	80	74
Health	38	36	44	33	43	40	43	34	52	51
Humanities	173	157	154	140	132	162	112	141	151	125
Professional/other/unknown	56	40	43	44	46	37	45	51	54	54
Non-U.S. citizen with temporary visa, all fields	9,733	9,191	9,458	9,057	9,660	9,800	9,731	10,589	11,617	12,824
Science and engineering	7,902	7,507	7,743	7,238	7,658	7,943	7,691	8,382	9,151	10,404
Science	5,140	4,952	5,164	5,047	5,207	5,156	5,042	5,472	5,843	6,650
Agricultural sciences	477	411	479	486	443	400	433	427	418	415
Biological sciences	1,250	1,321	1,324	1,287	1,385	1,242	1,292	1,398	1,470	1,677
Computer sciences	380	330	326	330	363	358	348	378	459	599
Earth, atmospheric, and ocean sciences	183	213	202	220	182	219	223	201	224	233
Mathematics	448	441	444	445	443	434	440	440	528	602
Physical sciences	1,142	1,082	1,193	1,122	1,148	1,205	1,106	1,216	1,346	1,550
Astronomy	42	37	52	37	42	52	31	34	47	63
Chemistry	616	599	654	622	648	672	596	689	722	797
Physics	484	446	487	463	458	481	479	493	577	690
Psychology	182	137	168	153	164	152	156	195	188	210
Social sciences	1,078	1,017	1,028	1,004	1,079	1,146	1,044	1,217	1,210	1,364
Engineering	2,762	2,555	2,579	2,191	2,451	2,787	2,649	2,910	3,308	3,754
Aeronautical/astronautical engineering	96	97	70	82	74	87	106	111	116	115
Chemical engineering	401	343	373	282	307	335	327	341	367	474
Civil engineering	379	310	316	253	280	300	349	388	422	475
Electrical engineering	755	712	708	637	784	930	824	915	1,057	1,189
Industrial engineering	118	118	120	108	94	110	134	137	134	128
Materials/metallurgical engineering	225	244	228	193	181	250	196	260	280	317
Mechanical engineering	442	449	453	354	433	494	446	446	525	606
Other engineering	346	282	311	282	298	281	267	312	407	450
Non-science and engineering	1,831	1,684	1,715	1,819	2,002	1,857	2,040	2,207	2,466	2,420
Education	489	411	487	517	539	504	477	588	627	536
Health	269	273	285	286	306	317	324	329	365	388
Humanities	522	530	532	536	629	554	649	660	716	775
Professional/other/unknown	551	470	411	480	528	482	590	630	758	721
Male non-U.S. citizen with temporary visa, all fields	7,473	6,973	6,983	6,631	6,851	7,001	6,753	7,253	7,905	8,747
Science and engineering	6,376	5,975	5,986	5,589	5,794	5,980	5,723	6,144	6,699	7,560
Science	3,846	3,635	3,687	3,658	3,646	3,599	3,461	3,679	3,882	4,445
Agricultural sciences	363	313	366	364	326	274	315	284	266	285
Biological sciences	804	817	789	819	832	743	776	805	826	878
Computer sciences	336	292	303	283	315	311	286	311	377	492
Earth, atmospheric, and ocean sciences	155	179	165	179	135	172	181	148	164	166
Mathematics	362	366	360	367	359	325	318	335	384	443
Physical sciences	931	858	917	874	899	935	822	929	1,015	1,189
Astronomy	36	27	34	30	37	44	27	24	34	50
Chemistry	465	445	452	442	475	475	396	488	487	554
Physics	430	386	431	402	387	416	399	417	494	585
Psychology	86	58	67	70	68	67	61	74	70	81
Social sciences	809	752	720	702	712	772	702	793	780	911
Engineering	2,530	2,340	2,299	1,931	2,148	2,381	2,262	2,465	2,817	3,115
Aeronautical/astronautical engineering	91	93	68	77	70	80	96	95	104	97
Chemical engineering	355	300	312	238	259	257	253	260	287	364
Civil engineering	348	288	276	227	243	258	293	332	361	383
Electrical engineering	703	674	655	575	695	803	735	803	917	1,030
Industrial engineering	105	107	105	97	79	95	107	106	113	111
Materials/metallurgical engineering	205	210	197	161	155	201	167	206	230	248
Mechanical engineering	425	420	424	322	398	445	399	403	476	531

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Other engineering	298	248	262	234	249	242	212	260	329	351
Non-science and engineering	1,097	998	997	1,042	1,057	1,021	1,030	1,109	1,206	1,187
Education	248	205	248	244	244	216	195	238	259	216
Health	147	135	155	139	143	169	141	166	167	162
Humanities	280	294	270	296	295	298	306	306	314	383
Professional/other/unknown	422	364	324	363	375	338	388	399	466	426
Female non-U.S. citizen with temporary visa, all fields	2,247	2,203	2,455	2,422	2,808	2,798	2,973	3,336	3,712	4,073
Science and engineering	1,519	1,520	1,742	1,647	1,863	1,963	1,965	2,238	2,452	2,841
Science	1,289	1,309	1,469	1,388	1,561	1,557	1,579	1,793	1,961	2,203
Agricultural sciences	114	97	113	122	117	126	118	143	152	130
Biological sciences	444	504	534	468	553	499	516	593	644	798
Computer sciences	44	38	23	47	48	47	62	67	82	106
Earth, atmospheric, and ocean sciences	27	33	36	41	47	47	42	53	60	67
Mathematics	86	75	84	77	84	109	121	105	144	159
Physical sciences	210	221	275	248	249	270	283	287	331	361
Astronomy	6	10	18	7	5	8	4	10	13	13
Chemistry	150	153	201	180	173	197	200	201	235	243
Physics	54	58	56	61	71	65	79	76	83	105
Psychology	96	79	101	83	96	85	95	121	118	129
Social sciences	268	262	303	302	367	374	342	424	430	453
Engineering	230	211	273	259	302	406	386	445	491	638
Aeronautical/astronautical engineering	5	4	2	5	4	7	10	16	12	18
Chemical engineering	45	43	60	44	48	78	74	81	80	110
Civil engineering	31	21	39	26	37	42	56	56	61	92
Electrical engineering	52	36	52	62	88	127	88	112	140	158
Industrial engineering	13	11	14	11	15	15	27	31	21	17
Materials/metallurgical engineering	20	34	30	32	26	49	29	54	50	69
Mechanical engineering	16	29	28	31	35	49	47	43	49	75
Other engineering	48	33	48	48	49	39	55	52	78	99
Non-science and engineering	728	683	713	775	945	835	1,008	1,098	1,260	1,232
Education	240	206	238	273	295	287	281	350	368	320
Health	118	138	129	147	163	148	183	163	198	226
Humanities	242	234	260	239	334	256	342	354	402	391
Professional/other/unknown	128	105	86	116	153	144	202	231	292	295
Non-U.S. citizen, all fields	13,498	12,123	12,120	11,367	11,610	11,625	11,383	12,219	13,155	14,424
Science and engineering	10,911	9,788	9,734	8,892	9,067	9,213	8,861	9,480	10,154	11,516
Science	7,356	6,640	6,677	6,297	6,266	6,127	5,940	6,304	6,604	7,477
Agricultural sciences	588	499	564	541	504	437	465	468	453	445
Biological sciences	2,068	1,907	1,870	1,751	1,749	1,581	1,607	1,661	1,703	1,932
Computer sciences	472	420	410	402	432	413	412	435	509	667
Earth, atmospheric, and ocean sciences	272	280	258	268	212	248	259	233	247	254
Mathematics	606	540	536	511	499	489	471	486	583	663
Physical sciences	1,634	1,446	1,501	1,363	1,349	1,386	1,267	1,367	1,464	1,682
Astronomy	54	44	67	43	54	56	36	39	49	63
Chemistry	909	804	831	772	770	774	689	783	794	879
Physics	671	598	603	548	525	556	542	545	621	740
Psychology	286	226	255	223	239	227	227	264	253	290
Social sciences	1,430	1,322	1,283	1,238	1,282	1,346	1,232	1,390	1,392	1,544
Engineering	3,555	3,148	3,057	2,595	2,801	3,086	2,921	3,176	3,550	4,039
Aeronautical/astronautical engineering	114	110	83	91	84	95	116	121	122	120
Chemical engineering	474	431	419	320	350	364	361	361	389	511
Civil engineering	472	388	367	304	320	347	386	418	456	516
Electrical engineering	976	899	874	764	900	1,025	908	1,007	1,136	1,289
Industrial engineering	147	135	137	121	104	125	144	153	148	145
Materials/metallurgical engineering	317	288	276	229	204	273	207	284	299	334

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	594	531	535	419	488	536	503	491	553	637
Other engineering	461	366	366	347	351	321	296	341	447	487
Non-science and engineering	2,587	2,335	2,386	2,475	2,543	2,412	2,522	2,739	3,001	2,908
Education	685	576	654	695	665	619	589	717	743	645
Health	352	342	366	363	381	385	392	388	438	465
Humanities	841	820	831	821	861	819	850	897	960	991
Professional/other/unknown	709	597	535	596	636	589	691	737	860	807
Male non-U.S. citizen, all fields	9,956	8,808	8,627	8,011	7,986	7,997	7,624	8,066	8,657	9,529
Science and engineering	8,477	7,482	7,303	6,641	6,693	6,723	6,387	6,734	7,253	8,158
Science	5,262	4,647	4,608	4,372	4,266	4,111	3,929	4,070	4,253	4,840
Agricultural sciences	443	379	418	402	366	293	334	300	281	299
Biological sciences	1,266	1,119	1,094	1,068	1,016	898	907	917	930	989
Computer sciences	414	364	367	340	371	353	331	348	413	544
Earth, atmospheric, and ocean sciences	229	227	202	212	155	191	205	170	175	177
Mathematics	480	431	424	406	395	363	337	360	417	473
Physical sciences	1,280	1,109	1,133	1,033	1,036	1,058	933	1,013	1,084	1,275
Astronomy	44	33	45	34	46	46	32	27	35	50
Chemistry	652	570	560	528	550	535	453	532	522	602
Physics	584	506	528	471	440	477	448	454	527	623
Psychology	112	85	98	91	98	91	87	96	89	99
Social sciences	1,038	933	872	820	829	864	795	866	864	984
Engineering	3,215	2,835	2,695	2,269	2,427	2,612	2,458	2,664	3,000	3,318
Aeronautical/astronautical engineering	107	106	81	86	80	86	105	103	110	102
Chemical engineering	413	372	346	266	293	275	272	276	300	384
Civil engineering	431	353	319	271	277	298	322	356	385	409
Electrical engineering	901	829	795	683	787	874	798	876	981	1,105
Industrial engineering	129	121	120	107	88	105	113	117	125	125
Materials/metallurgical engineering	280	241	231	191	171	217	174	220	243	260
Mechanical engineering	562	493	493	379	444	483	446	439	502	555
Other engineering	392	320	310	286	287	274	228	277	354	378
Non-science and engineering	1,479	1,326	1,324	1,370	1,293	1,274	1,237	1,332	1,404	1,371
Education	337	280	315	311	287	268	232	284	295	251
Health	192	168	192	183	175	197	166	191	188	188
Humanities	426	427	412	441	394	401	395	402	407	474
Professional/other/unknown	524	451	405	435	437	408	444	455	514	458
Female non-U.S. citizen, all fields	3,529	3,299	3,457	3,352	3,621	3,627	3,754	4,153	4,498	4,891
Science and engineering	2,427	2,293	2,405	2,249	2,372	2,490	2,471	2,746	2,901	3,355
Science	2,089	1,984	2,055	1,924	1,999	2,016	2,009	2,234	2,351	2,635
Agricultural sciences	145	119	146	139	138	144	131	168	172	146
Biological sciences	800	787	773	683	733	683	700	744	773	942
Computer sciences	58	56	42	62	61	60	81	87	96	122
Earth, atmospheric, and ocean sciences	42	52	55	56	57	57	54	63	72	77
Mathematics	126	109	111	104	103	126	133	126	166	190
Physical sciences	353	334	365	330	313	328	333	354	380	407
Astronomy	10	11	22	9	8	10	4	12	14	13
Chemistry	256	233	269	244	220	239	236	251	272	277
Physics	87	90	74	77	85	79	93	91	94	117
Psychology	174	141	157	132	141	136	140	168	164	191
Social sciences	391	386	406	418	453	482	437	524	528	560
Engineering	338	309	350	325	373	474	462	512	550	720
Aeronautical/astronautical engineering	7	4	2	5	4	9	11	18	12	18
Chemical engineering	60	59	72	54	57	89	89	85	89	127
Civil engineering	41	34	47	33	43	49	64	62	71	107
Electrical engineering	75	68	77	81	112	151	109	131	155	183
Industrial engineering	18	14	16	14	16	20	31	36	23	20

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Materials/metallurgical engineering	37	47	44	38	33	56	33	64	56	74
Mechanical engineering	31	38	37	39	44	53	57	52	51	82
Other engineering	69	45	55	61	64	47	68	64	93	109
Non-science and engineering	1,102	1,006	1,052	1,103	1,249	1,137	1,283	1,407	1,597	1,536
Education	347	296	336	384	378	350	356	433	448	394
Health	156	174	173	180	206	188	226	197	250	277
Humanities	415	391	414	379	466	418	454	495	553	516
Professional/other/unknown	184	145	129	160	199	181	247	282	346	349
Citizenship unknown, all fields	1,162	2,261	1,984	1,733	1,765	2,051	2,572	2,022	2,496	2,618
Science and engineering	690	1,329	1,242	1,124	1,192	1,234	1,380	1,159	1,377	1,546
Science	532	1,102	947	876	893	965	1,117	968	1,097	1,180
Agricultural sciences	13	47	39	18	35	69	84	71	61	66
Biological sciences	109	211	203	171	200	203	285	236	273	295
Computer sciences	26	59	38	33	39	43	39	42	42	64
Earth, atmospheric, and ocean sciences	26	36	30	32	38	30	33	31	24	38
Mathematics	26	53	60	33	33	47	36	36	37	60
Physical sciences	123	185	165	175	158	124	156	122	134	197
Astronomy	1	3	7	5	4	10	4	3	3	3
Chemistry	70	110	91	104	100	76	97	86	81	117
Physics	52	72	67	66	54	38	55	33	50	77
Psychology	79	295	231	222	222	256	248	223	351	226
Social sciences	130	216	181	192	168	193	236	207	175	234
Engineering	158	227	295	248	299	269	263	191	280	366
Aeronautical/astronautical engineering	7	8	18	12	13	14	11	9	8	6
Chemical engineering	6	15	29	21	36	33	43	15	44	70
Civil engineering	14	18	37	19	15	25	30	16	27	30
Electrical engineering	57	68	82	75	110	83	63	48	93	97
Industrial engineering	5	9	8	4	5	7	15	6	6	18
Materials/metallurgical engineering	12	23	24	15	26	22	25	14	20	29
Mechanical engineering	22	35	52	37	35	31	38	35	29	49
Other engineering	35	51	45	65	59	54	38	48	53	67
Non-science and engineering	472	932	742	609	573	817	1,192	863	1,119	1,072
Education	221	417	334	213	208	379	610	407	557	448
Health	39	120	60	72	91	93	136	81	89	106
Humanities	142	267	255	204	191	228	266	221	241	313
Professional/other/unknown	70	128	93	120	83	117	180	154	232	205
Male, citizenship unknown, all fields	608	1,085	1,083	905	1,018	1,092	1,281	1,093	1,309	1,411
Science and engineering	395	715	736	649	745	739	838	710	825	961
Science	300	559	514	474	515	524	650	544	603	666
Agricultural sciences	7	27	28	9	28	44	58	40	40	41
Biological sciences	59	111	114	92	113	116	172	143	167	152
Computer sciences	16	32	23	22	30	31	29	32	27	49
Earth, atmospheric, and ocean sciences	16	25	22	20	31	16	27	24	21	26
Mathematics	16	33	40	23	22	35	24	29	30	42
Physical sciences	76	124	107	130	115	84	119	79	101	145
Astronomy	1	2	7	5	4	6	2	3	3	1
Chemistry	37	71	52	71	67	49	70	49	62	82
Physics	38	51	48	54	44	29	47	27	36	62
Psychology	28	90	80	75	84	81	85	77	114	80
Social sciences	82	117	100	103	92	117	136	120	103	131
Engineering	95	156	222	175	230	215	188	166	222	295
Aeronautical/astronautical engineering	5	5	16	9	8	11	8	9	6	6
Chemical engineering	5	9	21	16	30	21	27	14	31	51
Civil engineering	10	14	29	17	10	21	21	15	20	24
Electrical engineering	30	52	60	50	87	73	48	44	74	83

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Industrial engineering	3	7	6	4	2	4	6	4	4	8
Materials/metallurgical engineering	5	16	18	9	22	20	19	12	17	26
Mechanical engineering	10	26	37	25	29	25	31	30	27	47
Other engineering	27	27	35	45	42	40	28	38	43	50
Non-science and engineering	213	370	347	256	273	353	443	383	484	450
Education	88	138	123	76	85	130	192	153	203	164
Health	16	47	23	31	39	43	48	27	29	39
Humanities	70	127	149	83	103	124	118	113	110	140
Professional/other/unknown	39	58	52	66	46	56	85	90	142	107
Female, citizenship unknown, all fields	370	867	788	655	679	883	1,211	929	1,186	1,154
Science and engineering	164	425	422	361	396	451	496	449	551	554
Science	143	398	374	325	352	407	434	424	493	496
Agricultural sciences	5	14	10	4	5	18	20	31	21	22
Biological sciences	30	71	77	62	81	78	111	93	106	139
Computer sciences	4	12	13	4	7	10	7	10	15	14
Earth, atmospheric, and ocean sciences	4	8	5	9	4	13	6	7	3	12
Mathematics	0	11	14	8	11	12	10	7	7	16
Physical sciences	21	41	43	30	38	35	34	43	32	49
Astronomy	0	1	0	0	0	4	2	0	0	2
Chemistry	16	29	29	26	29	23	26	37	18	34
Physics	5	11	14	4	9	8	6	6	14	13
Psychology	48	178	143	137	136	171	158	146	237	145
Social sciences	31	63	69	71	70	70	88	87	72	99
Engineering	21	27	48	36	44	44	62	25	58	58
Aeronautical/astronautical engineering	1	0	1	2	3	2	3	0	2	0
Chemical engineering	0	2	4	4	3	9	14	1	13	16
Civil engineering	1	1	3	2	3	3	8	1	7	5
Electrical engineering	11	8	13	12	14	9	9	4	19	11
Industrial engineering	2	1	2	0	2	2	8	2	2	7
Materials/metallurgical engineering	0	1	3	1	3	2	5	2	3	2
Mechanical engineering	2	4	14	5	5	4	5	5	2	2
Other engineering	4	10	8	10	11	13	10	10	10	15
Non-science and engineering	206	442	366	294	283	432	715	480	635	600
Education	115	228	201	121	121	245	406	254	354	274
Health	19	58	33	32	49	40	86	54	60	64
Humanities	55	112	103	96	84	96	139	108	131	169
Professional/other/unknown	17	44	29	45	29	51	84	64	90	93

NOTES: Persons whose sex is unknown are included in totals but are not shown separately. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Science and engineering	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	76.8	77.5	78.3	79.4	79.5	78.4	79.3	79.1	78.0	77.1
Agricultural sciences	4.1	4.0	4.1	4.1	4.0	3.8	4.1	4.2	4.0	3.7
Biological sciences	21.0	21.3	21.4	21.5	22.5	22.3	23.1	22.5	22.6	22.8
Computer sciences	3.4	3.3	3.4	3.3	3.3	3.2	3.3	3.4	3.6	4.1
Earth, atmospheric, and ocean sciences	2.7	3.0	2.8	2.8	2.7	2.6	2.8	2.7	2.6	2.5
Mathematics	4.1	4.1	4.3	4.2	4.0	3.9	3.7	3.9	4.1	4.3
Physical sciences	14.0	13.8	13.9	13.7	13.0	13.2	13.0	13.0	12.7	13.0
Astronomy	0.7	0.7	0.8	0.6	0.7	0.7	0.6	0.7	0.6	0.7
Chemistry	7.9	7.9	8.1	8.2	7.7	7.8	7.8	8.1	7.6	7.6
Physics	5.5	5.1	5.1	4.9	4.6	4.7	4.6	4.3	4.5	4.8
Psychology	12.8	13.1	13.5	14.1	13.9	13.3	13.0	13.0	12.7	11.9
Social sciences	14.7	15.1	14.9	15.7	16.0	16.0	16.3	16.4	15.8	14.8
Engineering	23.2	22.5	21.7	20.6	20.5	21.6	20.7	20.9	22.0	22.9
Aeronautical/astronautical engineering	1.1	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Chemical engineering	2.9	2.8	2.8	2.6	2.8	2.9	2.9	2.6	2.8	3.1
Civil engineering	2.6	2.4	2.4	2.3	2.1	2.3	2.6	2.7	2.6	2.7
Electrical engineering	6.4	6.3	5.8	5.7	5.9	6.2	5.7	5.8	6.3	6.6
Industrial engineering	1.0	0.9	0.8	0.8	0.7	0.8	0.9	0.8	0.8	0.8
Materials/metallurgical engineering	2.1	2.1	2.1	1.8	1.7	1.9	1.6	1.9	1.9	1.9
Mechanical engineering	3.9	3.8	3.7	3.3	3.3	3.7	3.4	3.2	3.2	3.5
Other engineering	3.3	3.1	3.1	3.3	3.1	2.9	2.8	3.1	3.6	3.4
Male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	70.3	70.6	71.3	73.1	73.0	71.7	72.9	72.3	71.0	70.0
Agricultural sciences	4.4	4.3	4.4	4.5	4.3	3.9	4.4	4.4	3.9	3.8
Biological sciences	17.8	18.0	18.5	18.9	19.5	19.4	20.5	19.6	19.4	18.7
Computer sciences	4.2	4.1	4.3	4.1	4.3	4.1	4.2	4.4	4.6	5.2
Earth, atmospheric, and ocean sciences	3.1	3.4	3.2	3.2	3.0	2.9	3.1	3.0	2.7	2.7
Mathematics	4.8	4.7	4.9	4.8	4.8	4.5	4.2	4.6	4.7	5.0
Physical sciences	16.0	15.9	16.1	16.3	15.4	15.7	15.2	15.2	15.1	15.4
Astronomy	0.8	0.9	0.9	0.8	0.9	0.9	0.7	0.8	0.7	0.8
Chemistry	8.3	8.4	8.5	8.9	8.2	8.4	8.3	8.8	8.2	8.1
Physics	7.0	6.6	6.7	6.6	6.3	6.4	6.1	5.6	6.1	6.5
Psychology	6.3	6.4	6.8	7.2	7.3	6.9	6.9	6.6	6.6	6.1
Social sciences	13.7	13.7	13.2	14.0	14.3	14.4	14.4	14.5	14.1	13.1
Engineering	29.7	29.4	28.7	26.9	27.0	28.3	27.1	27.7	29.0	30.0
Aeronautical/astronautical engineering	1.4	1.4	1.3	1.1	1.2	1.1	1.2	1.1	1.1	1.1
Chemical engineering	3.5	3.5	3.5	3.3	3.5	3.4	3.4	3.1	3.4	3.8
Civil engineering	3.3	3.2	3.1	3.0	2.8	3.0	3.3	3.5	3.3	3.3
Electrical engineering	8.4	8.6	8.0	7.8	8.1	8.5	8.0	8.1	8.7	9.2
Industrial engineering	1.1	1.1	1.1	1.0	0.8	1.0	1.1	1.0	1.1	1.0
Materials/metallurgical engineering	2.6	2.6	2.7	2.2	2.2	2.4	2.0	2.4	2.6	2.4
Mechanical engineering	5.2	5.1	5.2	4.5	4.6	5.3	4.7	4.6	4.6	4.9
Other engineering	4.0	3.8	3.9	4.0	3.7	3.6	3.4	3.9	4.3	4.2
Female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	91.0	91.6	91.7	91.3	91.1	90.0	90.3	90.4	89.6	88.9
Agricultural sciences	3.5	3.2	3.5	3.4	3.4	3.7	3.5	3.9	4.0	3.6
Biological sciences	27.9	27.9	27.1	26.4	27.9	27.5	27.8	27.4	28.0	29.5
Computer sciences	1.6	1.7	1.7	1.7	1.5	1.7	1.8	1.8	2.0	2.1
Earth, atmospheric, and ocean sciences	1.8	2.1	2.1	2.0	2.1	2.1	2.3	2.2	2.4	2.3
Mathematics	2.7	2.9	3.2	3.1	2.8	3.0	2.9	2.8	3.1	3.1
Physical sciences	9.7	9.4	9.8	9.1	8.8	8.9	9.2	9.4	8.8	9.2
Astronomy	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.5
Chemistry	7.0	6.9	7.4	7.0	6.6	6.8	7.0	6.9	6.5	6.9
Physics	2.2	2.2	1.9	1.8	1.7	1.7	1.9	2.1	1.9	1.9

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Psychology	26.9	26.4	26.3	27.0	25.7	24.3	23.3	23.4	22.8	21.5
Social sciences	16.9	17.8	18.0	18.7	19.0	18.8	19.5	19.5	18.5	17.5
Engineering	9.0	8.4	8.3	8.7	8.9	10.0	9.7	9.6	10.4	11.1
Aeronautical/astronautical engineering	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3
Chemical engineering	1.7	1.4	1.5	1.4	1.6	1.9	1.9	1.6	1.8	2.0
Civil engineering	0.9	0.9	1.1	1.0	0.9	1.2	1.3	1.3	1.4	1.7
Electrical engineering	2.0	1.7	1.7	1.7	2.1	2.2	1.8	1.9	2.3	2.4
Industrial engineering	0.6	0.4	0.4	0.5	0.4	0.5	0.7	0.6	0.4	0.4
Materials/metallurgical engineering	1.0	1.2	0.9	1.0	0.9	1.1	0.9	1.1	0.9	1.1
Mechanical engineering	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9	1.0	1.1
Other engineering	1.7	1.7	1.6	2.0	1.8	1.8	1.8	1.9	2.4	2.2
U.S. citizen or permanent resident	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	81.8	81.9	83.3	83.5	85.0	85.0	86.0	86.2	86.1	85.7
Agricultural sciences	3.4	3.4	3.2	3.2	3.3	3.1	3.2	3.6	3.6	3.5
Biological sciences	23.4	23.1	23.6	23.5	24.9	26.0	26.5	25.8	26.7	27.4
Computer sciences	2.8	2.8	3.1	2.8	2.7	2.6	2.7	2.8	2.8	3.0
Earth, atmospheric, and ocean sciences	2.8	3.0	2.9	2.7	2.8	2.5	2.8	2.9	2.8	2.8
Mathematics	3.5	3.4	3.7	3.4	3.4	3.2	2.9	3.3	3.2	3.4
Physical sciences	13.7	13.5	13.4	12.9	12.1	12.5	12.4	12.4	11.8	11.9
Astronomy	0.8	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.7
Chemistry	7.8	7.8	8.0	8.0	7.3	7.6	7.9	8.0	7.5	7.6
Physics	5.1	4.8	4.5	4.2	4.0	4.2	3.8	3.5	3.6	3.5
Psychology	17.3	17.0	17.9	18.7	18.9	18.2	18.0	18.1	17.7	18.0
Social sciences	15.0	15.6	15.6	16.3	17.0	16.8	17.6	17.3	17.5	15.9
Engineering	18.2	18.1	16.7	16.5	15.0	15.0	14.0	13.8	13.9	14.3
Aeronautical/astronautical engineering	1.0	0.9	0.8	0.6	0.7	0.6	0.6	0.5	0.5	0.6
Chemical engineering	2.1	2.2	2.0	2.1	2.2	2.2	2.2	1.9	2.0	2.1
Civil engineering	1.6	1.8	1.6	1.8	1.5	1.7	1.6	1.7	1.4	1.6
Electrical engineering	5.0	5.1	4.4	4.4	3.8	3.5	3.3	3.2	3.2	3.5
Industrial engineering	0.7	0.6	0.6	0.6	0.4	0.5	0.5	0.5	0.5	0.5
Materials/metallurgical engineering	1.8	1.7	1.7	1.5	1.4	1.4	1.1	1.3	1.3	1.2
Mechanical engineering	3.2	2.9	2.8	2.6	2.3	2.6	2.2	2.1	1.9	2.0
Other engineering	2.8	2.8	2.7	2.9	2.5	2.5	2.5	2.7	3.1	2.8
Male U.S. citizen or permanent resident	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	75.5	75.3	76.6	77.2	79.1	79.1	80.4	80.5	80.7	79.7
Agricultural sciences	3.8	3.9	3.5	3.6	3.6	3.3	3.5	4.1	3.8	3.7
Biological sciences	20.7	20.5	21.6	21.5	22.8	24.1	24.9	24.0	24.6	25.1
Computer sciences	3.6	3.7	4.0	3.7	3.7	3.5	3.7	3.9	3.9	4.1
Earth, atmospheric, and ocean sciences	3.4	3.5	3.4	3.2	3.3	2.9	3.1	3.3	3.0	3.1
Mathematics	4.3	4.0	4.3	3.9	4.1	3.9	3.5	4.1	4.0	4.4
Physical sciences	16.7	16.7	16.6	16.4	15.4	16.0	15.8	15.6	15.3	15.1
Astronomy	1.0	1.2	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0
Chemistry	8.8	8.8	9.1	9.3	8.2	8.7	9.2	9.5	9.0	8.6
Physics	7.0	6.7	6.5	6.2	6.1	6.3	5.7	5.0	5.3	5.5
Psychology	9.0	8.9	9.5	10.1	10.5	10.3	10.4	10.0	10.1	10.1
Social sciences	14.0	14.1	13.8	14.7	15.7	15.2	15.6	15.4	16.1	14.0
Engineering	24.5	24.7	23.4	22.8	20.9	20.9	19.6	19.5	19.3	20.3
Aeronautical/astronautical engineering	1.4	1.4	1.3	1.0	1.1	0.9	0.9	0.8	0.8	1.0
Chemical engineering	2.5	2.9	2.7	2.8	2.8	2.8	2.8	2.5	2.6	2.8
Civil engineering	2.2	2.4	2.2	2.4	2.1	2.2	2.2	2.2	1.8	1.9
Electrical engineering	7.0	7.3	6.4	6.5	5.6	5.3	5.0	4.9	4.9	5.5
Industrial engineering	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7
Materials/metallurgical engineering	2.3	2.1	2.4	2.0	1.9	1.8	1.5	1.7	1.9	1.6
Mechanical engineering	4.5	4.2	4.2	3.8	3.4	4.1	3.4	3.3	2.9	3.2
Other engineering	3.6	3.6	3.6	3.7	3.3	3.2	3.2	3.5	3.8	3.7

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Female U.S. citizen or permanent resident	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	92.4	92.7	93.7	93.0	93.1	93.0	93.4	93.5	93.1	93.3
Agricultural sciences	2.7	2.5	2.9	2.6	2.7	2.8	2.7	2.9	3.3	3.1
Biological sciences	27.9	27.5	26.8	26.4	27.9	28.7	28.6	28.1	29.3	30.4
Computer sciences	1.3	1.4	1.7	1.5	1.2	1.4	1.4	1.4	1.5	1.5
Earth, atmospheric, and ocean sciences	1.7	2.1	2.2	1.9	2.0	2.0	2.4	2.2	2.6	2.3
Mathematics	2.1	2.5	2.8	2.7	2.3	2.3	2.0	2.2	2.2	2.1
Physical sciences	8.7	8.3	8.3	7.7	7.6	7.6	7.9	8.2	7.3	7.9
Astronomy	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.5	0.5
Chemistry	6.3	6.2	6.5	6.0	5.9	5.9	6.2	6.1	5.6	6.2
Physics	1.9	1.8	1.5	1.3	1.2	1.3	1.4	1.7	1.3	1.1
Psychology	31.4	30.1	30.8	31.5	30.5	29.2	28.0	28.8	27.6	27.9
Social sciences	16.7	18.1	18.3	18.7	18.9	19.0	20.2	19.6	19.3	18.2
Engineering	7.6	7.3	6.3	7.0	6.9	7.0	6.6	6.5	6.9	6.7
Aeronautical/astronautical engineering	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.1	0.2
Chemical engineering	1.4	1.1	1.1	1.1	1.4	1.4	1.3	1.1	1.2	1.2
Civil engineering	0.7	0.8	0.8	0.9	0.7	1.0	0.9	1.0	1.0	1.1
Electrical engineering	1.5	1.5	1.3	1.1	1.3	1.0	1.0	1.0	1.0	1.1
Industrial engineering	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.2
Materials/metallurgical engineering	0.9	1.0	0.7	0.8	0.8	0.8	0.7	0.7	0.6	0.7
Mechanical engineering	0.9	0.8	0.7	0.8	0.8	0.6	0.7	0.6	0.6	0.6
Other engineering	1.4	1.5	1.2	1.7	1.5	1.7	1.5	1.7	2.1	1.6
U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	83.4	83.0	84.2	84.4	85.8	85.7	86.8	86.9	86.8	86.6
Agricultural sciences	3.3	3.3	3.1	3.2	3.2	3.1	3.2	3.6	3.6	3.5
Biological sciences	22.7	22.8	23.2	23.0	24.9	26.0	26.5	25.9	26.9	27.8
Computer sciences	2.7	2.7	2.9	2.6	2.5	2.5	2.5	2.7	2.7	2.7
Earth, atmospheric, and ocean sciences	2.7	3.0	2.9	2.7	2.8	2.5	2.8	2.9	2.8	2.8
Mathematics	3.1	3.3	3.6	3.4	3.3	3.1	2.9	3.2	3.1	3.2
Physical sciences	13.2	13.1	13.1	12.7	11.9	12.3	12.3	12.3	11.8	11.9
Astronomy	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.9	0.8	0.8
Chemistry	7.5	7.7	7.9	7.9	7.1	7.5	7.9	8.0	7.5	7.6
Physics	4.9	4.5	4.3	4.1	4.0	4.0	3.7	3.4	3.5	3.5
Psychology	20.0	18.8	19.6	20.3	20.1	19.3	19.0	19.0	18.5	18.9
Social sciences	15.6	16.0	15.9	16.5	17.2	16.9	17.7	17.4	17.4	15.8
Engineering	16.6	17.0	15.8	15.6	14.2	14.3	13.2	13.1	13.2	13.4
Aeronautical/astronautical engineering	1.1	1.0	0.9	0.6	0.7	0.6	0.6	0.5	0.5	0.6
Chemical engineering	2.0	2.0	2.0	2.1	2.2	2.2	2.1	1.9	2.0	2.0
Civil engineering	1.4	1.5	1.5	1.6	1.4	1.5	1.5	1.6	1.3	1.4
Electrical engineering	4.5	4.7	3.9	4.0	3.4	3.1	2.9	2.8	2.9	3.1
Industrial engineering	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4
Materials/metallurgical engineering	1.6	1.7	1.6	1.4	1.4	1.3	1.1	1.2	1.3	1.2
Mechanical engineering	2.8	2.8	2.7	2.5	2.2	2.6	2.0	2.0	1.8	2.0
Other engineering	2.6	2.7	2.7	2.8	2.4	2.5	2.5	2.7	3.0	2.7
Male U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	77.3	76.5	77.6	78.2	80.2	80.0	81.3	81.5	81.6	80.7
Agricultural sciences	3.8	3.8	3.4	3.6	3.6	3.4	3.6	4.2	3.9	3.8
Biological sciences	20.5	20.6	21.4	21.3	23.1	24.4	25.3	24.4	25.0	25.5
Computer sciences	3.6	3.5	3.8	3.5	3.5	3.3	3.4	3.7	3.7	3.8
Earth, atmospheric, and ocean sciences	3.3	3.6	3.5	3.2	3.4	2.9	3.0	3.3	3.0	3.2
Mathematics	4.0	3.9	4.2	4.0	4.1	3.8	3.5	4.1	3.9	4.3
Physical sciences	16.7	16.7	16.6	16.5	15.4	16.0	15.7	15.7	15.4	15.1
Astronomy	1.1	1.3	1.1	0.9	1.0	1.1	1.0	1.2	1.0	1.0
Chemistry	8.7	8.9	9.2	9.5	8.2	8.8	9.2	9.7	9.2	8.7

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Physics	6.9	6.5	6.3	6.1	6.1	6.1	5.5	4.9	5.3	5.4
Psychology	10.7	10.0	10.5	11.0	11.2	10.9	10.9	10.5	10.5	10.7
Social sciences	14.6	14.4	14.1	15.1	15.9	15.4	15.7	15.6	16.1	14.1
Engineering	22.7	23.5	22.4	21.8	19.8	20.0	18.7	18.5	18.4	19.3
Aeronautical/astronautical engineering	1.6	1.4	1.3	1.0	1.1	0.9	0.9	0.7	0.7	1.0
Chemical engineering	2.5	2.6	2.7	2.8	2.7	2.9	2.8	2.5	2.7	2.7
Civil engineering	1.8	2.1	2.0	2.2	2.0	1.9	2.0	2.1	1.6	1.8
Electrical engineering	6.5	6.9	5.9	6.1	5.1	4.9	4.6	4.4	4.4	4.9
Industrial engineering	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
Materials/metallurgical engineering	2.1	2.2	2.3	1.9	1.9	1.8	1.5	1.7	1.9	1.6
Mechanical engineering	4.1	4.1	4.0	3.7	3.2	4.0	3.1	3.1	2.7	3.1
Other engineering	3.4	3.4	3.6	3.5	3.2	3.1	3.3	3.6	3.8	3.6
Female U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	93.1	93.3	94.2	93.4	93.6	93.5	94.1	94.1	93.6	94.0
Agricultural sciences	2.5	2.5	2.6	2.6	2.6	2.8	2.7	2.8	3.2	3.1
Biological sciences	26.2	26.3	25.9	25.5	27.3	28.2	28.0	28.0	29.3	30.6
Computer sciences	1.3	1.3	1.6	1.4	1.1	1.3	1.3	1.2	1.4	1.3
Earth, atmospheric, and ocean sciences	1.8	2.1	2.1	1.9	2.0	2.0	2.4	2.3	2.5	2.3
Mathematics	1.7	2.3	2.6	2.5	2.2	2.2	2.0	2.1	2.1	1.8
Physical sciences	7.7	7.5	7.8	7.2	7.2	7.3	7.7	7.8	7.1	7.8
Astronomy	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.5	0.5
Chemistry	5.5	5.6	6.1	5.6	5.7	5.8	6.2	5.8	5.4	6.2
Physics	1.7	1.5	1.4	1.2	1.0	1.2	1.2	1.6	1.2	1.1
Psychology	34.8	32.9	33.1	33.7	32.2	30.8	29.6	30.3	28.8	29.1
Social sciences	17.2	18.4	18.5	18.6	19.0	18.9	20.4	19.6	19.2	17.9
Engineering	6.9	6.7	5.8	6.6	6.4	6.5	5.9	5.9	6.4	6.0
Aeronautical/astronautical engineering	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2
Chemical engineering	1.4	1.0	1.0	1.0	1.4	1.3	1.2	1.1	1.1	1.0
Civil engineering	0.6	0.7	0.8	0.8	0.6	0.9	0.8	1.0	0.9	1.0
Electrical engineering	1.4	1.2	1.0	1.0	1.0	0.7	0.7	0.7	0.8	0.8
Industrial engineering	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.2
Materials/metallurgical engineering	0.8	0.9	0.6	0.8	0.7	0.7	0.7	0.6	0.5	0.7
Mechanical engineering	0.7	0.7	0.6	0.8	0.7	0.5	0.5	0.5	0.7	0.5
Other engineering	1.3	1.5	1.3	1.7	1.4	1.7	1.4	1.7	2.0	1.6
Non-U.S. citizen with permanent visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	73.6	74.0	76.0	75.6	75.2	76.5	76.8	75.8	75.9	74.4
Agricultural sciences	3.7	3.9	4.3	3.3	4.3	2.9	2.7	3.7	3.5	2.7
Biological sciences	27.2	25.7	27.4	28.1	25.8	26.7	26.9	24.0	23.2	22.9
Computer sciences	3.1	3.9	4.2	4.4	4.9	4.3	5.5	5.2	5.0	6.1
Earth, atmospheric, and ocean sciences	3.0	2.9	2.8	2.9	2.1	2.3	3.1	2.9	2.3	1.9
Mathematics	5.3	4.3	4.6	4.0	4.0	4.3	2.6	4.2	5.5	5.5
Physical sciences	16.4	16.0	15.5	14.6	14.3	14.3	13.8	13.8	11.8	11.9
Astronomy	0.4	0.3	0.8	0.4	0.9	0.3	0.4	0.5	0.2	0.0
Chemistry	9.7	9.0	8.9	9.1	8.7	8.0	7.9	8.6	7.2	7.4
Physics	6.2	6.7	5.8	5.1	4.8	5.9	5.4	4.7	4.4	4.5
Psychology	3.5	3.9	4.4	4.2	5.3	5.9	6.1	6.3	6.5	7.2
Social sciences	11.7	13.4	12.8	14.1	14.4	15.7	16.1	15.8	18.1	16.2
Engineering	26.4	26.0	24.0	24.4	24.8	23.5	23.2	24.2	24.1	25.6
Aeronautical/astronautical engineering	0.6	0.6	0.7	0.5	0.7	0.6	0.9	0.9	0.6	0.4
Chemical engineering	2.4	3.9	2.3	2.3	3.1	2.3	2.9	1.8	2.2	3.3
Civil engineering	3.1	3.4	2.6	3.1	2.8	3.7	3.2	2.7	3.4	3.7
Electrical engineering	7.3	8.2	8.3	7.7	8.2	7.5	7.2	8.4	7.9	9.0
Industrial engineering	1.0	0.7	0.9	0.8	0.7	1.2	0.9	1.5	1.4	1.5
Materials/metallurgical engineering	3.1	1.9	2.4	2.2	1.6	1.8	0.9	2.2	1.9	1.5
Mechanical engineering	5.1	3.6	4.1	3.9	3.9	3.3	4.9	4.1	2.8	2.8

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Other engineering	3.8	3.7	2.8	3.9	3.8	3.1	2.5	2.6	4.0	3.3
Male non-U.S. citizen with permanent visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	67.4	67.2	69.9	67.9	69.0	68.9	70.5	66.3	67.0	66.1
Agricultural sciences	3.8	4.4	3.9	3.6	4.4	2.6	2.9	2.7	2.7	2.3
Biological sciences	22.0	20.0	23.2	23.7	20.5	20.9	19.7	19.0	18.8	18.6
Computer sciences	3.7	4.8	4.9	5.4	6.2	5.7	6.8	6.3	6.5	8.7
Earth, atmospheric, and ocean sciences	3.5	3.2	2.8	3.1	2.2	2.6	3.6	3.7	2.0	1.8
Mathematics	5.6	4.3	4.9	3.7	4.0	5.1	2.9	4.2	6.0	5.0
Physical sciences	16.6	16.7	16.4	15.1	15.2	16.6	16.7	14.2	12.5	14.4
Astronomy	0.4	0.4	0.8	0.4	1.0	0.3	0.8	0.5	0.2	0.0
Chemistry	8.9	8.3	8.2	8.2	8.3	8.1	8.6	7.5	6.3	8.0
Physics	7.3	8.0	7.4	6.6	5.9	8.2	7.4	6.3	6.0	6.4
Psychology	1.2	1.8	2.4	2.0	3.3	3.2	3.9	3.7	3.4	3.0
Social sciences	10.9	12.0	11.5	11.2	13.0	12.4	14.0	12.4	15.2	12.2
Engineering	32.6	32.8	30.1	32.1	31.0	31.1	29.5	33.7	33.0	33.9
Aeronautical/astronautical engineering	0.8	0.9	1.0	0.9	1.1	0.8	1.4	1.4	1.1	0.8
Chemical engineering	2.8	4.8	2.6	2.7	3.8	2.4	2.9	2.7	2.3	3.3
Civil engineering	4.0	4.3	3.3	4.2	3.8	5.4	4.4	4.1	4.3	4.3
Electrical engineering	9.4	10.3	10.6	10.3	10.2	9.6	9.5	12.4	11.6	12.5
Industrial engineering	1.1	0.9	1.1	1.0	1.0	1.3	0.9	1.9	2.2	2.3
Materials/metallurgical engineering	3.6	2.1	2.6	2.9	1.8	2.2	1.1	2.4	2.3	2.0
Mechanical engineering	6.5	4.8	5.2	5.4	5.1	5.1	7.1	6.1	4.7	4.0
Other engineering	4.5	4.8	3.6	4.9	4.2	4.3	2.4	2.9	4.5	4.5
Female non-U.S. citizen with permanent visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	88.1	87.3	88.4	89.0	86.1	87.1	85.0	86.8	86.9	84.0
Agricultural sciences	3.4	2.8	5.0	2.8	4.1	3.4	2.6	4.9	4.5	3.1
Biological sciences	39.2	36.6	36.0	35.7	35.4	34.9	36.4	29.7	28.7	28.0
Computer sciences	1.5	2.3	2.9	2.5	2.6	2.5	3.8	3.9	3.1	3.1
Earth, atmospheric, and ocean sciences	1.7	2.5	2.9	2.5	2.0	1.9	2.4	2.0	2.7	1.9
Mathematics	4.4	4.4	4.1	4.5	3.7	3.2	2.4	4.1	4.9	6.0
Physical sciences	15.7	14.6	13.6	13.6	12.6	11.0	9.9	13.2	10.9	8.9
Astronomy	0.4	0.1	0.6	0.3	0.6	0.4	0.0	0.4	0.2	0.0
Chemistry	11.7	10.3	10.3	10.6	9.2	8.0	7.1	9.8	8.2	6.6
Physics	3.6	4.1	2.7	2.7	2.8	2.7	2.8	3.0	2.4	2.3
Psychology	8.6	8.0	8.4	8.1	8.8	9.7	8.9	9.3	10.2	12.1
Social sciences	13.5	16.0	15.5	19.3	16.9	20.5	18.8	19.7	21.8	20.8
Engineering	11.9	12.7	11.6	11.0	13.9	12.9	15.0	13.2	13.1	16.0
Aeronautical/astronautical engineering	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.4	0.0	0.0
Chemical engineering	1.7	2.1	1.8	1.7	1.8	2.1	3.0	0.8	2.0	3.3
Civil engineering	1.1	1.7	1.2	1.2	1.2	1.3	1.6	1.2	2.2	2.9
Electrical engineering	2.5	4.1	3.8	3.2	4.7	4.6	4.2	3.7	3.3	4.9
Industrial engineering	0.6	0.4	0.3	0.5	0.2	0.9	0.8	1.0	0.4	0.6
Materials/metallurgical engineering	1.9	1.7	2.1	1.0	1.4	1.3	0.8	2.0	1.3	1.0
Mechanical engineering	1.7	1.2	1.4	1.3	1.8	0.8	2.0	1.8	0.4	1.4
Other engineering	2.3	1.6	1.1	2.2	2.9	1.5	2.6	2.4	3.3	1.9
Non-U.S. citizen with temporary visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	65.0	66.0	66.7	69.7	68.0	64.9	65.6	65.3	63.9	63.9
Agricultural sciences	6.0	5.5	6.2	6.7	5.8	5.0	5.6	5.1	4.6	4.0
Biological sciences	15.8	17.6	17.1	17.8	18.1	15.6	16.8	16.7	16.1	16.1
Computer sciences	4.8	4.4	4.2	4.6	4.7	4.5	4.5	4.5	5.0	5.8
Earth, atmospheric, and ocean sciences	2.3	2.8	2.6	3.0	2.4	2.8	2.9	2.4	2.4	2.2
Mathematics	5.7	5.9	5.7	6.1	5.8	5.5	5.7	5.2	5.8	5.8
Physical sciences	14.5	14.4	15.4	15.5	15.0	15.2	14.4	14.5	14.7	14.9
Astronomy	0.5	0.5	0.7	0.5	0.5	0.7	0.4	0.4	0.5	0.6

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Chemistry	7.8	8.0	8.4	8.6	8.5	8.5	7.7	8.2	7.9	7.7
Physics	6.1	5.9	6.3	6.4	6.0	6.1	6.2	5.9	6.3	6.6
Psychology	2.3	1.8	2.2	2.1	2.1	1.9	2.0	2.3	2.1	2.0
Social sciences	13.6	13.5	13.3	13.9	14.1	14.4	13.6	14.5	13.2	13.1
Engineering	35.0	34.0	33.3	30.3	32.0	35.1	34.4	34.7	36.1	36.1
Aeronautical/astronautical engineering	1.2	1.3	0.9	1.1	1.0	1.1	1.4	1.3	1.3	1.1
Chemical engineering	5.1	4.6	4.8	3.9	4.0	4.2	4.3	4.1	4.0	4.6
Civil engineering	4.8	4.1	4.1	3.5	3.7	3.8	4.5	4.6	4.6	4.6
Electrical engineering	9.6	9.5	9.1	8.8	10.2	11.7	10.7	10.9	11.6	11.4
Industrial engineering	1.5	1.6	1.5	1.5	1.2	1.4	1.7	1.6	1.5	1.2
Materials/metallurgical engineering	2.8	3.3	2.9	2.7	2.4	3.1	2.5	3.1	3.1	3.0
Mechanical engineering	5.6	6.0	5.9	4.9	5.7	6.2	5.8	5.3	5.7	5.8
Other engineering	4.4	3.8	4.0	3.9	3.9	3.5	3.5	3.7	4.4	4.3
Male non-U.S. citizen with temporary visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	60.3	60.8	61.6	65.4	62.9	60.2	60.5	59.9	57.9	58.8
Agricultural sciences	5.7	5.2	6.1	6.5	5.6	4.6	5.5	4.6	4.0	3.8
Biological sciences	12.6	13.7	13.2	14.7	14.4	12.4	13.6	13.1	12.3	11.6
Computer sciences	5.3	4.9	5.1	5.1	5.4	5.2	5.0	5.1	5.6	6.5
Earth, atmospheric, and ocean sciences	2.4	3.0	2.8	3.2	2.3	2.9	3.2	2.4	2.4	2.2
Mathematics	5.7	6.1	6.0	6.6	6.2	5.4	5.6	5.5	5.7	5.9
Physical sciences	14.6	14.4	15.3	15.6	15.5	15.6	14.4	15.1	15.2	15.7
Astronomy	0.6	0.5	0.6	0.5	0.6	0.7	0.5	0.4	0.5	0.7
Chemistry	7.3	7.4	7.6	7.9	8.2	7.9	6.9	7.9	7.3	7.3
Physics	6.7	6.5	7.2	7.2	6.7	7.0	7.0	6.8	7.4	7.7
Psychology	1.3	1.0	1.1	1.3	1.2	1.1	1.1	1.2	1.0	1.1
Social sciences	12.7	12.6	12.0	12.6	12.3	12.9	12.3	12.9	11.6	12.1
Engineering	39.7	39.2	38.4	34.6	37.1	39.8	39.5	40.1	42.1	41.2
Aeronautical/astronautical engineering	1.4	1.6	1.1	1.4	1.2	1.3	1.7	1.5	1.6	1.3
Chemical engineering	5.6	5.0	5.2	4.3	4.5	4.3	4.4	4.2	4.3	4.8
Civil engineering	5.5	4.8	4.6	4.1	4.2	4.3	5.1	5.4	5.4	5.1
Electrical engineering	11.0	11.3	10.9	10.3	12.0	13.4	12.8	13.1	13.7	13.6
Industrial engineering	1.6	1.8	1.8	1.7	1.4	1.6	1.9	1.7	1.7	1.5
Materials/metallurgical engineering	3.2	3.5	3.3	2.9	2.7	3.4	2.9	3.4	3.4	3.3
Mechanical engineering	6.7	7.0	7.1	5.8	6.9	7.4	7.0	6.6	7.1	7.0
Other engineering	4.7	4.2	4.4	4.2	4.3	4.0	3.7	4.2	4.9	4.6
Female non-U.S. citizen with temporary visa	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	84.9	86.1	84.3	84.3	83.8	79.3	80.4	80.1	80.0	77.5
Agricultural sciences	7.5	6.4	6.5	7.4	6.3	6.4	6.0	6.4	6.2	4.6
Biological sciences	29.2	33.2	30.7	28.4	29.7	25.4	26.3	26.5	26.3	28.1
Computer sciences	2.9	2.5	1.3	2.9	2.6	2.4	3.2	3.0	3.3	3.7
Earth, atmospheric, and ocean sciences	1.8	2.2	2.1	2.5	2.5	2.4	2.1	2.4	2.4	2.4
Mathematics	5.7	4.9	4.8	4.7	4.5	5.6	6.2	4.7	5.9	5.6
Physical sciences	13.8	14.5	15.8	15.1	13.4	13.8	14.4	12.8	13.5	12.7
Astronomy	0.4	0.7	1.0	0.4	0.3	0.4	0.2	0.4	0.5	0.5
Chemistry	9.9	10.1	11.5	10.9	9.3	10.0	10.2	9.0	9.6	8.6
Physics	3.6	3.8	3.2	3.7	3.8	3.3	4.0	3.4	3.4	3.7
Psychology	6.3	5.2	5.8	5.0	5.2	4.3	4.8	5.4	4.8	4.5
Social sciences	17.6	17.2	17.4	18.3	19.7	19.1	17.4	18.9	17.5	15.9
Engineering	15.1	13.9	15.7	15.7	16.2	20.7	19.6	19.9	20.0	22.5
Aeronautical/astronautical engineering	0.3	0.3	0.1	0.3	0.2	0.4	0.5	0.7	0.5	0.6
Chemical engineering	3.0	2.8	3.4	2.7	2.6	4.0	3.8	3.6	3.3	3.9
Civil engineering	2.0	1.4	2.2	1.6	2.0	2.1	2.8	2.5	2.5	3.2
Electrical engineering	3.4	2.4	3.0	3.8	4.7	6.5	4.5	5.0	5.7	5.6
Industrial engineering	0.9	0.7	0.8	0.7	0.8	0.8	1.4	1.4	0.9	0.6
Materials/metallurgical engineering	1.3	2.2	1.7	1.9	1.4	2.5	1.5	2.4	2.0	2.4

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	1.1	1.9	1.6	1.9	1.9	2.5	2.4	1.9	2.0	2.6
Other engineering	3.2	2.2	2.8	2.9	2.6	2.0	2.8	2.3	3.2	3.5
Non-U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	67.4	67.8	68.6	70.8	69.1	66.5	67.0	66.5	65.0	64.9
Agricultural sciences	5.4	5.1	5.8	6.1	5.6	4.7	5.2	4.9	4.5	3.9
Biological sciences	19.0	19.5	19.2	19.7	19.3	17.2	18.1	17.5	16.8	16.8
Computer sciences	4.3	4.3	4.2	4.5	4.8	4.5	4.6	4.6	5.0	5.8
Earth, atmospheric, and ocean sciences	2.5	2.9	2.7	3.0	2.3	2.7	2.9	2.5	2.4	2.2
Mathematics	5.6	5.5	5.5	5.7	5.5	5.3	5.3	5.1	5.7	5.8
Physical sciences	15.0	14.8	15.4	15.3	14.9	15.0	14.3	14.4	14.4	14.6
Astronomy	0.5	0.4	0.7	0.5	0.6	0.6	0.4	0.4	0.5	0.5
Chemistry	8.3	8.2	8.5	8.7	8.5	8.4	7.8	8.3	7.8	7.6
Physics	6.1	6.1	6.2	6.2	5.8	6.0	6.1	5.7	6.1	6.4
Psychology	2.6	2.3	2.6	2.5	2.6	2.5	2.6	2.8	2.5	2.5
Social sciences	13.1	13.5	13.2	13.9	14.1	14.6	13.9	14.7	13.7	13.4
Engineering	32.6	32.2	31.4	29.2	30.9	33.5	33.0	33.5	35.0	35.1
Aeronautical/astronautical engineering	1.0	1.1	0.9	1.0	0.9	1.0	1.3	1.3	1.2	1.0
Chemical engineering	4.3	4.4	4.3	3.6	3.9	4.0	4.1	3.8	3.8	4.4
Civil engineering	4.3	4.0	3.8	3.4	3.5	3.8	4.4	4.4	4.5	4.5
Electrical engineering	8.9	9.2	9.0	8.6	9.9	11.1	10.2	10.6	11.2	11.2
Industrial engineering	1.3	1.4	1.4	1.4	1.1	1.4	1.6	1.6	1.5	1.3
Materials/metallurgical engineering	2.9	2.9	2.8	2.6	2.2	3.0	2.3	3.0	2.9	2.9
Mechanical engineering	5.4	5.4	5.5	4.7	5.4	5.8	5.7	5.2	5.4	5.5
Other engineering	4.2	3.7	3.8	3.9	3.9	3.5	3.3	3.6	4.4	4.2
Male non-U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	62.1	62.1	63.1	65.8	63.7	61.1	61.5	60.4	58.6	59.3
Agricultural sciences	5.2	5.1	5.7	6.1	5.5	4.4	5.2	4.5	3.9	3.7
Biological sciences	14.9	15.0	15.0	16.1	15.2	13.4	14.2	13.6	12.8	12.1
Computer sciences	4.9	4.9	5.0	5.1	5.5	5.3	5.2	5.2	5.7	6.7
Earth, atmospheric, and ocean sciences	2.7	3.0	2.8	3.2	2.3	2.8	3.2	2.5	2.4	2.2
Mathematics	5.7	5.8	5.8	6.1	5.9	5.4	5.3	5.3	5.7	5.8
Physical sciences	15.1	14.8	15.5	15.6	15.5	15.7	14.6	15.0	14.9	15.6
Astronomy	0.5	0.4	0.6	0.5	0.7	0.7	0.5	0.4	0.5	0.6
Chemistry	7.7	7.6	7.7	8.0	8.2	8.0	7.1	7.9	7.2	7.4
Physics	6.9	6.8	7.2	7.1	6.6	7.1	7.0	6.7	7.3	7.6
Psychology	1.3	1.1	1.3	1.4	1.5	1.4	1.4	1.4	1.2	1.2
Social sciences	12.2	12.5	11.9	12.3	12.4	12.9	12.4	12.9	11.9	12.1
Engineering	37.9	37.9	36.9	34.2	36.3	38.9	38.5	39.6	41.4	40.7
Aeronautical/astronautical engineering	1.3	1.4	1.1	1.3	1.2	1.3	1.6	1.5	1.5	1.3
Chemical engineering	4.9	5.0	4.7	4.0	4.4	4.1	4.3	4.1	4.1	4.7
Civil engineering	5.1	4.7	4.4	4.1	4.1	4.4	5.0	5.3	5.3	5.0
Electrical engineering	10.6	11.1	10.9	10.3	11.8	13.0	12.5	13.0	13.5	13.5
Industrial engineering	1.5	1.6	1.6	1.6	1.3	1.6	1.8	1.7	1.7	1.5
Materials/metallurgical engineering	3.3	3.2	3.2	2.9	2.6	3.2	2.7	3.3	3.4	3.2
Mechanical engineering	6.6	6.6	6.8	5.7	6.6	7.2	7.0	6.5	6.9	6.8
Other engineering	4.6	4.3	4.2	4.3	4.3	4.1	3.6	4.1	4.9	4.6
Female non-U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	86.1	86.5	85.4	85.5	84.3	81.0	81.3	81.4	81.0	78.5
Agricultural sciences	6.0	5.2	6.1	6.2	5.8	5.8	5.3	6.1	5.9	4.4
Biological sciences	33.0	34.3	32.1	30.4	30.9	27.4	28.3	27.1	26.6	28.1
Computer sciences	2.4	2.4	1.7	2.8	2.6	2.4	3.3	3.2	3.3	3.6
Earth, atmospheric, and ocean sciences	1.7	2.3	2.3	2.5	2.4	2.3	2.2	2.3	2.5	2.3
Mathematics	5.2	4.8	4.6	4.6	4.3	5.1	5.4	4.6	5.7	5.7
Physical sciences	14.5	14.6	15.2	14.7	13.2	13.2	13.5	12.9	13.1	12.1

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Astronomy	0.4	0.5	0.9	0.4	0.3	0.4	0.2	0.4	0.5	0.4
Chemistry	10.5	10.2	11.2	10.8	9.3	9.6	9.6	9.1	9.4	8.3
Physics	3.6	3.9	3.1	3.4	3.6	3.2	3.8	3.3	3.2	3.5
Psychology	7.2	6.1	6.5	5.9	5.9	5.5	5.7	6.1	5.7	5.7
Social sciences	16.1	16.8	16.9	18.6	19.1	19.4	17.7	19.1	18.2	16.7
Engineering	13.9	13.5	14.6	14.5	15.7	19.0	18.7	18.6	19.0	21.5
Aeronautical/astronautical engineering	0.3	0.2	0.1	0.2	0.2	0.4	0.4	0.7	0.4	0.5
Chemical engineering	2.5	2.6	3.0	2.4	2.4	3.6	3.6	3.1	3.1	3.8
Civil engineering	1.7	1.5	2.0	1.5	1.8	2.0	2.6	2.3	2.4	3.2
Electrical engineering	3.1	3.0	3.2	3.6	4.7	6.1	4.4	4.8	5.3	5.5
Industrial engineering	0.7	0.6	0.7	0.6	0.7	0.8	1.3	1.3	0.8	0.6
Materials/metallurgical engineering	1.5	2.0	1.8	1.7	1.4	2.2	1.3	2.3	1.9	2.2
Mechanical engineering	1.3	1.7	1.5	1.7	1.9	2.1	2.3	1.9	1.8	2.4
Other engineering	2.8	2.0	2.3	2.7	2.7	1.9	2.8	2.3	3.2	3.2
Citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	77.1	82.9	76.2	77.9	74.9	78.2	80.9	83.5	79.7	76.3
Agricultural sciences	1.9	3.5	3.1	1.6	2.9	5.6	6.1	6.1	4.4	4.3
Biological sciences	15.8	15.9	16.3	15.2	16.8	16.5	20.7	20.4	19.8	19.1
Computer sciences	3.8	4.4	3.1	2.9	3.3	3.5	2.8	3.6	3.1	4.1
Earth, atmospheric, and ocean sciences	3.8	2.7	2.4	2.8	3.2	2.4	2.4	2.7	1.7	2.5
Mathematics	3.8	4.0	4.8	2.9	2.8	3.8	2.6	3.1	2.7	3.9
Physical sciences	17.8	13.9	13.3	15.6	13.3	10.0	11.3	10.5	9.7	12.7
Astronomy	0.1	0.2	0.6	0.4	0.3	0.8	0.3	0.3	0.2	0.2
Chemistry	10.1	8.3	7.3	9.3	8.4	6.2	7.0	7.4	5.9	7.6
Physics	7.5	5.4	5.4	5.9	4.5	3.1	4.0	2.8	3.6	5.0
Psychology	11.4	22.2	18.6	19.8	18.6	20.7	18.0	19.2	25.5	14.6
Social sciences	18.8	16.3	14.6	17.1	14.1	15.6	17.1	17.9	12.7	15.1
Engineering	22.9	17.1	23.8	22.1	25.1	21.8	19.1	16.5	20.3	23.7
Aeronautical/astronautical engineering	1.0	0.6	1.4	1.1	1.1	1.1	0.8	0.8	0.6	0.4
Chemical engineering	0.9	1.1	2.3	1.9	3.0	2.7	3.1	1.3	3.2	4.5
Civil engineering	2.0	1.4	3.0	1.7	1.3	2.0	2.2	1.4	2.0	1.9
Electrical engineering	8.3	5.1	6.6	6.7	9.2	6.7	4.6	4.1	6.8	6.3
Industrial engineering	0.7	0.7	0.6	0.4	0.4	0.6	1.1	0.5	0.4	1.2
Materials/metallurgical engineering	1.7	1.7	1.9	1.3	2.2	1.8	1.8	1.2	1.5	1.9
Mechanical engineering	3.2	2.6	4.2	3.3	2.9	2.5	2.8	3.0	2.1	3.2
Other engineering	5.1	3.8	3.6	5.8	4.9	4.4	2.8	4.1	3.8	4.3
Male, citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	75.9	78.2	69.8	73.0	69.1	70.9	77.6	76.6	73.1	69.3
Agricultural sciences	1.8	3.8	3.8	1.4	3.8	6.0	6.9	5.6	4.8	4.3
Biological sciences	14.9	15.5	15.5	14.2	15.2	15.7	20.5	20.1	20.2	15.8
Computer sciences	4.1	4.5	3.1	3.4	4.0	4.2	3.5	4.5	3.3	5.1
Earth, atmospheric, and ocean sciences	4.1	3.5	3.0	3.1	4.2	2.2	3.2	3.4	2.5	2.7
Mathematics	4.1	4.6	5.4	3.5	3.0	4.7	2.9	4.1	3.6	4.4
Physical sciences	19.2	17.3	14.5	20.0	15.4	11.4	14.2	11.1	12.2	15.1
Astronomy	0.3	0.3	1.0	0.8	0.5	0.8	0.2	0.4	0.4	0.1
Chemistry	9.4	9.9	7.1	10.9	9.0	6.6	8.4	6.9	7.5	8.5
Physics	9.6	7.1	6.5	8.3	5.9	3.9	5.6	3.8	4.4	6.5
Psychology	7.1	12.6	10.9	11.6	11.3	11.0	10.1	10.8	13.8	8.3
Social sciences	20.8	16.4	13.6	15.9	12.3	15.8	16.2	16.9	12.5	13.6
Engineering	24.1	21.8	30.2	27.0	30.9	29.1	22.4	23.4	26.9	30.7
Aeronautical/astronautical engineering	1.3	0.7	2.2	1.4	1.1	1.5	1.0	1.3	0.7	0.6
Chemical engineering	1.3	1.3	2.9	2.5	4.0	2.8	3.2	2.0	3.8	5.3
Civil engineering	2.5	2.0	3.9	2.6	1.3	2.8	2.5	2.1	2.4	2.5
Electrical engineering	7.6	7.3	8.2	7.7	11.7	9.9	5.7	6.2	9.0	8.6
Industrial engineering	0.8	1.0	0.8	0.6	0.3	0.5	0.7	0.6	0.5	0.8

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1996–2005

Characteristic and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Materials/metallurgical engineering	1.3	2.2	2.4	1.4	3.0	2.7	2.3	1.7	2.1	2.7
Mechanical engineering	2.5	3.6	5.0	3.9	3.9	3.4	3.7	4.2	3.3	4.9
Other engineering	6.8	3.8	4.8	6.9	5.6	5.4	3.3	5.4	5.2	5.2
Female, citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	87.2	93.6	88.6	90.0	88.9	90.2	87.5	94.4	89.5	89.5
Agricultural sciences	3.0	3.3	2.4	1.1	1.3	4.0	4.0	6.9	3.8	4.0
Biological sciences	18.3	16.7	18.2	17.2	20.5	17.3	22.4	20.7	19.2	25.1
Computer sciences	2.4	2.8	3.1	1.1	1.8	2.2	1.4	2.2	2.7	2.5
Earth, atmospheric, and ocean sciences	2.4	1.9	1.2	2.5	1.0	2.9	1.2	1.6	0.5	2.2
Mathematics	0.0	2.6	3.3	2.2	2.8	2.7	2.0	1.6	1.3	2.9
Physical sciences	12.8	9.6	10.2	8.3	9.6	7.8	6.9	9.6	5.8	8.8
Astronomy	0.0	0.2	0.0	0.0	0.0	0.9	0.4	0.0	0.0	0.4
Chemistry	9.8	6.8	6.9	7.2	7.3	5.1	5.2	8.2	3.3	6.1
Physics	3.0	2.6	3.3	1.1	2.3	1.8	1.2	1.3	2.5	2.3
Psychology	29.3	41.9	33.9	38.0	34.3	37.9	31.9	32.5	43.0	26.2
Social sciences	18.9	14.8	16.4	19.7	17.7	15.5	17.7	19.4	13.1	17.9
Engineering	12.8	6.4	11.4	10.0	11.1	9.8	12.5	5.6	10.5	10.5
Aeronautical/astronautical engineering	0.6	0.0	0.2	0.6	0.8	0.4	0.6	0.0	0.4	0.0
Chemical engineering	0.0	0.5	0.9	1.1	0.8	2.0	2.8	0.2	2.4	2.9
Civil engineering	0.6	0.2	0.7	0.6	0.8	0.7	1.6	0.2	1.3	0.9
Electrical engineering	6.7	1.9	3.1	3.3	3.5	2.0	1.8	0.9	3.4	2.0
Industrial engineering	1.2	0.2	0.5	0.0	0.5	0.4	1.6	0.4	0.4	1.3
Materials/metallurgical engineering	0.0	0.2	0.7	0.3	0.8	0.4	1.0	0.4	0.5	0.4
Mechanical engineering	1.2	0.9	3.3	1.4	1.3	0.9	1.0	1.1	0.4	0.4
Other engineering	2.4	2.4	1.9	2.8	2.8	2.9	2.0	2.2	1.8	2.7

NOTES: Persons whose sex is unknown are included in totals but are not shown separately. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	31,542	31,083	31,195	30,302	29,936	28,800	27,650	28,129	28,004	27,912
Science and engineering	18,648	18,393	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
Science	15,259	15,061	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
Agricultural sciences	628	620	591	561	559	506	492	562	566	557
Biological sciences	4,365	4,256	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
Computer sciences	514	520	563	493	458	424	420	446	447	473
Earth, atmospheric, and ocean sciences	515	555	533	471	474	411	433	451	438	442
Mathematics	648	629	673	605	574	526	443	517	511	541
Physical sciences	2,561	2,479	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
Astronomy	149	158	147	117	139	124	106	130	115	120
Chemistry	1,463	1,438	1,471	1,406	1,241	1,233	1,228	1,266	1,184	1,213
Physics	949	883	824	742	692	678	589	555	559	567
Psychology	3,233	3,125	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
Social sciences	2,795	2,877	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
Engineering	3,389	3,332	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
Aeronautical/astronautical engineering	184	168	153	112	127	102	92	80	77	98
Chemical engineering	391	409	374	371	383	362	335	292	314	331
Civil engineering	305	327	297	312	261	270	248	269	224	252
Electrical engineering	929	940	805	766	649	564	506	502	500	566
Industrial engineering	136	119	101	99	77	89	81	71	77	76
Materials/metallurgical engineering	337	315	313	261	244	225	175	200	211	194
Mechanical engineering	588	538	517	464	396	428	343	333	298	323
Other engineering	519	516	487	506	436	412	385	431	486	444
Non-science and engineering	12,894	12,690	12,907	12,733	12,820	12,481	12,139	12,396	12,260	11,888
Education	6,075	5,745	5,748	5,816	5,685	5,449	5,404	5,643	5,449	5,245
Health	1,016	1,028	1,154	1,049	1,194	1,131	1,193	1,223	1,265	1,283
Humanities	4,047	4,238	4,330	4,295	4,393	4,378	4,114	4,137	4,056	3,859
Professional/other/unknown	1,756	1,679	1,675	1,573	1,548	1,523	1,428	1,393	1,490	1,501
American Indian/Alaska Native, all fields	186	167	189	214	169	150	149	137	131	140
Science and engineering	95	79	96	114	88	73	69	73	60	67
Science	81	62	83	102	80	67	63	61	54	58
Agricultural sciences	7	5	9	1	5	0	2	4	4	3
Biological sciences	20	7	12	20	17	15	12	11	14	12
Computer sciences	4	1	4	1	1	1	2	2	2	1
Earth, atmospheric, and ocean sciences	1	3	3	6	4	0	0	2	4	4
Mathematics	1	1	3	1	2	2	3	2	0	0
Physical sciences	6	9	9	9	9	12	7	2	5	4
Astronomy	0	1	1	1	1	1	0	0	0	0
Chemistry	4	6	7	5	7	11	5	2	4	2
Physics	2	2	1	3	1	0	2	0	1	2
Psychology	17	18	31	35	22	17	15	22	12	15
Social sciences	25	18	12	29	20	20	22	16	13	19
Engineering	14	17	13	12	8	6	6	12	6	9
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	1	4	3	2	1	1	1	1	2	0
Civil engineering	2	2	0	2	1	0	0	1	3	0
Electrical engineering	2	5	3	1	0	1	0	5	1	3
Industrial engineering	3	0	0	0	0	0	1	0	0	0
Materials/metallurgical engineering	2	0	2	2	0	1	1	0	0	0
Mechanical engineering	3	6	2	2	3	1	1	1	0	4
Other engineering	1	0	3	3	3	2	2	4	0	1
Non-science and engineering	91	88	93	100	81	77	80	64	71	73
Education	60	51	50	58	51	42	46	40	47	43
Health	4	6	4	6	4	6	3	2	3	4
Humanities	18	19	21	21	20	21	20	15	13	20

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Professional/other/unknown	9	12	18	15	6	8	11	7	8	6
Asian, all fields[a]	3,674	3,109	2,728	2,497	2,274	2,180	2,110	2,043	2,059	2,181
Science and engineering	3,079	2,528	2,156	1,932	1,707	1,632	1,616	1,528	1,494	1,633
Science	2,183	1,821	1,599	1,419	1,267	1,205	1,208	1,181	1,140	1,228
Agricultural sciences	87	73	55	50	36	25	29	26	31	22
Biological sciences	885	721	663	608	539	547	561	530	490	536
Computer sciences	111	107	91	87	76	62	86	81	72	92
Earth, atmospheric, and ocean sciences	71	61	45	35	23	27	24	22	11	18
Mathematics	140	97	72	56	70	50	28	51	54	66
Physical sciences	500	398	334	252	202	200	193	184	164	196
Astronomy	12	8	13	3	13	6	11	8	8	7
Chemistry	295	233	210	183	121	126	122	112	112	125
Physics	193	157	111	66	68	68	60	64	44	64
Psychology	121	126	113	132	145	114	120	119	152	131
Social sciences	268	238	226	199	176	180	167	168	166	167
Engineering	896	707	557	513	440	427	408	347	354	405
Aeronautical/astronautical engineering	28	16	13	13	11	12	11	7	9	9
Chemical engineering	80	73	65	58	70	53	70	46	58	46
Civil engineering	89	72	38	46	43	38	29	20	34	33
Electrical engineering	276	256	206	172	141	137	131	134	109	144
Industrial engineering	28	22	11	7	11	22	10	14	10	15
Materials/metallurgical engineering	102	59	55	53	34	37	33	23	31	28
Mechanical engineering	166	113	91	88	72	75	70	51	47	50
Other engineering	127	96	78	76	58	53	54	52	56	80
Non-science and engineering	595	581	572	565	567	548	494	515	565	548
Education	180	180	177	168	174	146	138	150	155	154
Health	87	87	83	87	99	100	91	85	94	113
Humanities	187	180	192	193	176	180	169	183	206	186
Professional/other/unknown	141	134	120	117	118	122	96	97	110	95
Black/African American, all fields	1,446	1,475	1,603	1,763	1,750	1,728	1,752	1,796	1,984	1,795
Science and engineering	572	615	643	715	710	701	687	664	751	705
Science	498	517	562	617	629	609	602	587	657	605
Agricultural sciences	26	26	21	27	22	14	13	22	20	16
Biological sciences	98	112	111	116	118	139	124	108	149	158
Computer sciences	12	4	14	19	18	15	17	17	17	15
Earth, atmospheric, and ocean sciences	2	6	5	11	4	5	5	13	7	6
Mathematics	8	7	16	12	14	19	14	16	10	22
Physical sciences	59	51	56	66	61	55	67	55	60	55
Astronomy	0	2	1	2	1	1	1	1	0	2
Chemistry	45	35	45	56	44	42	44	42	47	41
Physics	14	14	10	8	16	12	22	12	13	12
Psychology	152	152	158	172	189	172	170	169	206	164
Social sciences	141	159	181	194	203	190	192	187	188	169
Engineering	74	98	81	98	81	92	85	77	94	100
Aeronautical/astronautical engineering	5	3	1	1	4	1	2	1	1	2
Chemical engineering	12	16	3	11	8	17	12	9	10	14
Civil engineering	8	10	9	6	6	11	13	9	7	9
Electrical engineering	22	31	23	30	21	22	16	21	33	31
Industrial engineering	3	9	8	7	4	6	4	3	3	8
Materials/metallurgical engineering	3	4	10	7	5	6	5	4	6	5
Mechanical engineering	10	12	13	12	18	17	17	9	17	11
Other engineering	11	13	14	24	15	12	16	21	17	20
Non-science and engineering	874	860	960	1,048	1,040	1,027	1,065	1,132	1,233	1,090
Education	607	553	655	689	695	671	693	758	796	681
Health	48	55	65	57	75	64	73	78	107	122

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	116	142	139	164	158	168	160	154	169	168
Professional/other/unknown	103	110	101	138	112	124	139	142	161	119
Hispanic, all fields[b]	1,113	1,199	1,330	1,324	1,310	1,265	1,368	1,429	1,299	1,426
Science and engineering	626	659	757	722	730	669	723	744	718	799
Science	527	563	647	639	648	578	625	640	630	710
Agricultural sciences	13	27	35	16	29	26	21	25	16	18
Biological sciences	131	147	169	174	174	165	182	176	192	227
Computer sciences	16	16	15	14	14	8	14	11	13	12
Earth, atmospheric, and ocean sciences	19	15	17	20	16	9	14	15	11	18
Mathematics	11	20	27	15	15	15	12	17	26	24
Physical sciences	67	69	54	63	77	65	63	72	62	74
Astronomy	2	3	2	1	3	7	4	3	6	3
Chemistry	36	44	34	46	51	43	38	45	43	55
Physics	29	22	18	16	23	15	21	24	13	16
Psychology	173	171	208	216	211	169	184	170	172	188
Social sciences	97	98	122	121	112	121	135	154	138	149
Engineering	99	96	110	83	82	91	98	104	88	89
Aeronautical/astronautical engineering	2	4	5	0	3	5	3	4	3	6
Chemical engineering	19	7	13	7	18	7	16	16	12	21
Civil engineering	6	12	16	12	9	9	9	13	20	11
Electrical engineering	27	26	31	30	22	22	31	23	15	15
Industrial engineering	6	5	7	4	0	3	6	4	3	2
Materials/metallurgical engineering	6	10	8	8	8	9	7	13	7	10
Mechanical engineering	13	14	19	9	12	21	12	13	10	13
Other engineering	20	18	11	13	10	15	14	18	18	11
Non-science and engineering	487	540	573	602	580	596	645	685	581	627
Education	218	257	290	303	285	275	321	338	271	291
Health	38	32	37	46	34	28	33	44	46	43
Humanities	178	208	198	197	208	230	240	247	207	209
Professional/other/unknown	53	43	48	56	53	63	51	56	57	84
Mexican American, all fields	293	306	424	350	415	402	413	482	457	519
Science and engineering	149	161	223	164	214	187	186	224	232	248
Science	121	143	193	151	188	169	169	205	208	224
Agricultural sciences	2	2	10	3	7	5	7	8	6	3
Biological sciences	28	44	54	41	46	47	53	55	58	71
Computer sciences	1	2	3	1	4	2	3	3	3	3
Earth, atmospheric, and ocean sciences	5	3	5	5	4	4	4	0	3	3
Mathematics	2	3	6	7	8	6	2	5	8	8
Physical sciences	23	15	21	16	23	16	15	26	21	20
Astronomy	1	0	1	0	1	3	1	1	2	2
Chemistry	15	9	15	9	17	7	7	19	14	11
Physics	7	6	5	7	5	6	7	6	5	7
Psychology	38	49	53	43	61	56	50	52	53	62
Social sciences	22	25	41	35	35	33	35	56	56	54
Engineering	28	18	30	13	26	18	17	19	24	24
Aeronautical/astronautical engineering	1	1	3	0	0	1	1	1	2	3
Chemical engineering	4	3	1	0	4	0	3	4	3	6
Civil engineering	2	2	5	3	4	1	1	1	5	1
Electrical engineering	9	5	7	4	4	8	4	3	5	3
Industrial engineering	1	0	3	1	0	0	0	0	0	0
Materials/metallurgical engineering	1	4	4	1	3	3	1	7	4	3
Mechanical engineering	4	2	3	1	6	4	3	2	0	6
Other engineering	6	1	4	3	5	1	4	1	5	2
Non-science and engineering	144	145	201	186	201	215	227	258	225	271
Education	79	90	116	103	115	116	140	159	130	146

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	6	7	15	16	11	6	9	13	9	20
Humanities	41	38	59	49	62	70	65	66	70	77
Professional/other/unknown	18	10	11	18	13	23	13	20	16	28
Puerto Rican, all fields	252	314	308	334	326	296	345	260	259	264
Science and engineering	142	172	173	183	183	149	196	147	140	159
Science	120	149	156	160	163	136	170	128	121	143
Agricultural sciences	4	4	3	1	6	6	9	3	4	5
Biological sciences	32	37	43	46	33	48	56	34	51	53
Computer sciences	5	6	2	6	4	1	4	2	4	0
Earth, atmospheric, and ocean sciences	3	6	5	5	5	1	3	4	5	5
Mathematics	3	4	7	2	2	2	3	3	2	5
Physical sciences	12	20	11	22	20	14	20	17	16	17
Astronomy	0	0	1	0	0	0	1	1	0	0
Chemistry	9	13	9	18	19	11	11	14	15	16
Physics	3	7	1	4	1	3	8	2	1	1
Psychology	48	56	71	57	74	39	50	47	19	37
Social sciences	13	16	14	21	19	25	25	18	20	21
Engineering	22	23	17	23	20	13	26	19	19	16
Aeronautical/astronautical engineering	0	0	1	0	0	1	0	2	0	1
Chemical engineering	4	1	3	2	5	2	8	4	1	5
Civil engineering	1	5	1	2	2	2	1	4	7	2
Electrical engineering	4	4	3	11	6	2	7	4	4	2
Industrial engineering	2	2	3	1	0	2	3	0	1	1
Materials/metallurgical engineering	2	1	1	3	3	1	2	0	0	2
Mechanical engineering	3	6	5	2	2	1	3	2	3	1
Other engineering	6	4	0	2	2	2	2	3	3	2
Non-science and engineering	110	142	135	151	143	147	149	113	119	105
Education	52	72	77	90	75	87	80	52	56	42
Health	7	10	7	11	9	5	9	4	16	6
Humanities	38	49	37	31	44	41	50	42	35	36
Professional/other/unknown	13	11	14	19	15	14	10	15	12	21
Other Hispanic, all fields	568	579	598	640	569	567	610	687	583	643
Science and engineering	335	326	361	375	333	333	341	373	346	392
Science	286	271	298	328	297	273	286	307	301	343
Agricultural sciences	7	21	22	12	16	15	5	14	6	10
Biological sciences	71	66	72	87	95	70	73	87	83	103
Computer sciences	10	8	10	7	6	5	7	6	6	9
Earth, atmospheric, and ocean sciences	11	6	7	10	7	4	7	11	3	10
Mathematics	6	13	14	6	5	7	7	9	16	11
Physical sciences	32	34	22	25	34	35	28	29	25	37
Astronomy	1	3	0	1	2	4	2	1	4	1
Chemistry	12	22	10	19	15	25	20	12	14	28
Physics	19	9	12	5	17	6	6	16	7	8
Psychology	87	66	84	116	76	74	84	71	100	89
Social sciences	62	57	67	65	58	63	75	80	62	74
Engineering	49	55	63	47	36	60	55	66	45	49
Aeronautical/astronautical engineering	1	3	1	0	3	3	2	1	1	2
Chemical engineering	11	3	9	5	9	5	5	8	8	10
Civil engineering	3	5	10	7	3	6	7	8	8	8
Electrical engineering	14	17	21	15	12	12	20	16	6	10
Industrial engineering	3	3	1	2	0	1	3	4	2	1
Materials/metallurgical engineering	3	5	3	4	2	5	4	6	3	5
Mechanical engineering	6	6	11	6	4	16	6	9	7	6
Other engineering	8	13	7	8	3	12	8	14	10	7

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	233	253	237	265	236	234	269	314	237	251
Education	87	95	97	110	95	72	101	127	85	103
Health	25	15	15	19	14	17	15	27	21	17
Humanities	99	121	102	117	102	119	125	139	102	96
Professional/other/unknown	22	22	23	19	25	26	28	21	29	35
White, all fields	24,669	23,962	24,286	23,900	23,711	22,618	21,387	21,536	21,419	21,472
Science and engineering	13,995	13,828	14,011	13,721	13,443	12,725	11,911	12,023	12,031	12,273
Science	11,732	11,540	11,841	11,610	11,553	10,972	10,433	10,463	10,484	10,669
Agricultural sciences	485	466	454	456	452	430	417	465	470	486
Biological sciences	3,170	3,157	3,249	3,128	3,307	3,258	3,119	3,059	3,188	3,337
Computer sciences	356	361	413	356	337	322	291	308	320	327
Earth, atmospheric, and ocean sciences	415	449	443	387	411	354	374	379	379	384
Mathematics	478	479	528	506	464	428	370	407	399	413
Physical sciences	1,877	1,869	1,901	1,829	1,674	1,636	1,533	1,537	1,468	1,501
Astronomy	131	132	120	109	115	104	86	104	93	100
Chemistry	1,062	1,078	1,129	1,090	988	974	986	1,003	922	956
Physics	684	659	652	630	571	558	461	430	453	445
Psychology	2,743	2,523	2,646	2,701	2,606	2,410	2,228	2,260	2,137	2,286
Social sciences	2,208	2,236	2,207	2,247	2,302	2,134	2,101	2,048	2,123	1,935
Engineering	2,263	2,288	2,170	2,111	1,890	1,753	1,478	1,560	1,547	1,604
Aeronautical/astronautical engineering	149	137	126	97	107	79	74	66	60	74
Chemical engineering	274	293	275	286	280	273	223	210	218	237
Civil engineering	199	220	217	241	194	194	185	217	156	191
Electrical engineering	589	579	523	510	444	368	304	296	314	352
Industrial engineering	94	80	72	80	59	54	56	47	56	49
Materials/metallurgical engineering	217	234	225	184	190	165	123	154	160	148
Mechanical engineering	392	377	371	336	279	302	227	246	210	237
Other engineering	349	368	361	377	337	318	286	324	373	316
Non-science and engineering	10,674	10,134	10,275	10,179	10,268	9,893	9,476	9,513	9,388	9,199
Education	4,940	4,457	4,409	4,505	4,374	4,198	4,045	4,159	4,025	3,955
Health	822	828	929	837	960	908	967	966	969	962
Humanities	3,483	3,524	3,606	3,619	3,705	3,624	3,375	3,348	3,302	3,133
Professional/other/unknown	1,429	1,325	1,331	1,218	1,229	1,163	1,089	1,040	1,092	1,149
Other/unknown, all fields[c]	454	1,171	1,059	604	722	859	884	1,188	1,112	898
Science and engineering	281	684	625	365	438	519	505	701	690	547
Science	238	558	509	291	366	436	415	623	592	470
Agricultural sciences	10	23	17	11	15	11	10	20	25	12
Biological sciences	61	112	115	77	113	124	115	175	163	126
Computer sciences	15	31	26	16	12	16	10	27	23	26
Earth, atmospheric, and ocean sciences	7	21	20	12	16	16	16	20	26	12
Mathematics	10	25	27	15	9	12	16	24	22	16
Physical sciences	52	83	88	46	49	67	60	101	99	70
Astronomy	4	12	10	1	6	5	4	14	8	8
Chemistry	21	42	46	26	30	37	33	62	56	34
Physics	27	29	32	19	13	25	23	25	35	28
Psychology	27	135	118	37	57	95	76	115	109	107
Social sciences	56	128	98	77	95	95	112	141	125	101
Engineering	43	126	116	74	72	83	90	78	98	77
Aeronautical/astronautical engineering	0	8	8	1	2	5	2	2	4	6
Chemical engineering	5	16	15	7	6	11	13	10	14	13
Civil engineering	1	11	17	5	8	18	12	9	4	8
Electrical engineering	13	43	19	23	21	14	24	23	28	21
Industrial engineering	2	3	3	1	3	4	4	3	5	2
Materials/metallurgical engineering	7	8	13	7	7	7	6	6	7	3
Mechanical engineering	4	16	21	17	12	12	16	13	14	8
Other engineering	11	21	20	13	13	12	13	12	22	16

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	173	487	434	239	284	340	379	487	422	351
Education	70	247	167	93	106	117	161	198	155	121
Health	17	20	36	16	22	25	26	48	46	39
Humanities	65	165	174	101	126	155	150	190	159	143
Professional/other/unknown	21	55	57	29	30	43	42	51	62	48

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	17,204	16,879	16,562	15,898	15,292	14,626	13,716	13,898	13,745	13,573
Science and engineering	11,683	11,390	11,087	10,496	9,980	9,447	8,808	8,903	8,891	8,884
Science	8,820	8,571	8,498	8,098	7,899	7,475	7,086	7,166	7,176	7,079
Agricultural sciences	443	443	386	376	364	311	310	362	340	333
Biological sciences	2,424	2,333	2,392	2,259	2,280	2,275	2,195	2,141	2,190	2,227
Computer sciences	423	419	439	387	372	326	323	347	345	368
Earth, atmospheric, and ocean sciences	394	404	376	336	329	273	270	298	263	278
Mathematics	503	452	473	413	409	371	308	365	357	390
Physical sciences	1,953	1,897	1,841	1,718	1,532	1,512	1,393	1,390	1,356	1,338
Astronomy	114	132	120	91	104	95	85	100	82	86
Chemistry	1,024	1,006	1,005	980	819	826	810	849	801	767
Physics	815	759	716	647	609	591	498	441	473	485
Psychology	1,048	1,014	1,058	1,064	1,051	973	914	891	897	901
Social sciences	1,632	1,609	1,533	1,545	1,562	1,434	1,373	1,372	1,428	1,244
Engineering	2,863	2,819	2,589	2,398	2,081	1,972	1,722	1,737	1,715	1,805
Aeronautical/astronautical engineering	166	156	141	102	113	83	81	69	67	87
Chemical engineering	293	332	297	296	282	269	247	220	234	247
Civil engineering	258	269	239	251	213	204	191	200	158	173
Electrical engineering	823	834	713	685	556	496	440	437	432	485
Industrial engineering	100	91	77	68	59	61	49	49	57	59
Materials/metallurgical engineering	273	244	262	206	190	171	129	155	173	145
Mechanical engineering	528	482	462	404	340	390	299	293	254	280
Other engineering	422	411	398	386	328	298	286	314	340	329
Non-science and engineering	5,521	5,489	5,475	5,402	5,312	5,179	4,908	4,995	4,854	4,689
Education	2,243	2,049	2,050	2,015	1,926	1,889	1,799	1,858	1,801	1,685
Health	293	287	311	329	340	330	337	351	344	364
Humanities	2,001	2,198	2,220	2,211	2,217	2,152	2,072	2,081	1,992	1,934
Professional/other/unknown	984	955	894	847	829	808	700	705	717	706
American Indian/Alaska Native, all fields	101	79	104	96	76	68	68	53	58	57
Science and engineering	60	45	54	59	43	41	36	34	33	35
Science	48	31	45	49	39	37	30	25	29	27
Agricultural sciences	3	5	7	1	4	0	2	3	2	1
Biological sciences	11	4	6	10	10	8	6	3	10	6
Computer sciences	2	0	4	0	1	1	2	2	2	1
Earth, atmospheric, and ocean sciences	1	2	2	3	3	0	0	1	4	1
Mathematics	1	1	1	1	1	1	2	1	0	0
Physical sciences	5	9	8	6	7	10	7	1	4	4
Astronomy	0	1	1	0	0	1	0	0	0	0
Chemistry	3	6	6	3	6	9	5	1	4	2
Physics	2	2	1	3	1	0	2	0	0	2
Psychology	8	6	13	12	3	5	7	8	3	6
Social sciences	17	4	4	16	10	12	4	6	4	8
Engineering	12	14	9	10	4	4	6	9	4	8
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	1	3	0	1	0	1	1	0	1	0
Civil engineering	1	1	0	1	0	0	0	1	2	0
Electrical engineering	1	5	3	1	0	1	0	5	1	3
Industrial engineering	3	0	0	0	0	0	1	0	0	0
Materials/metallurgical engineering	2	0	2	2	0	1	1	0	0	0
Mechanical engineering	3	5	2	2	2	1	1	0	0	3
Other engineering	1	0	2	3	2	0	2	3	0	1
Non-science and engineering	41	34	50	37	33	27	32	19	25	22
Education	22	18	26	19	17	12	16	9	14	8
Health	1	2	1	0	1	2	0	1	0	2
Humanities	10	8	14	11	11	9	12	7	8	9

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Professional/other/unknown	8	6	9	7	4	4	4	2	3	3
Asian, all fields[a]	2,390	1,884	1,640	1,477	1,241	1,181	1,121	1,076	1,004	1,073
Science and engineering	2,105	1,638	1,383	1,217	1,027	949	939	883	817	887
Science	1,343	1,050	926	789	697	621	629	617	547	582
Agricultural sciences	58	53	30	31	24	12	14	10	8	9
Biological sciences	482	373	370	332	276	280	271	276	230	251
Computer sciences	95	81	68	68	61	42	60	64	53	65
Earth, atmospheric, and ocean sciences	59	43	32	25	14	20	14	14	7	9
Mathematics	104	69	45	36	49	33	23	27	37	38
Physical sciences	355	266	229	159	132	127	132	112	111	130
Astronomy	8	7	10	3	9	6	11	5	5	5
Chemistry	187	140	135	103	67	65	72	62	70	74
Physics	160	119	84	53	56	56	49	45	36	51
Psychology	31	31	29	34	46	25	39	38	26	26
Social sciences	159	134	123	104	95	82	76	76	75	54
Engineering	762	588	457	428	330	328	310	266	270	305
Aeronautical/astronautical engineering	22	16	13	12	11	8	9	5	8	9
Chemical engineering	62	61	46	44	48	34	49	36	40	31
Civil engineering	75	58	32	41	33	29	22	17	23	20
Electrical engineering	246	217	174	146	108	108	105	104	89	121
Industrial engineering	24	21	9	6	9	16	8	11	7	13
Materials/metallurgical engineering	84	43	40	43	23	28	23	17	23	18
Mechanical engineering	149	97	78	77	56	67	55	42	41	43
Other engineering	100	75	65	59	42	38	39	34	39	50
Non-science and engineering	285	246	257	260	214	232	182	193	187	186
Education	69	52	69	65	53	43	39	41	37	44
Health	47	37	35	39	36	36	20	36	30	30
Humanities	83	73	79	82	63	76	68	66	77	67
Professional/other/unknown	86	84	74	74	62	77	55	50	43	45
Black/African American, all fields	638	636	609	700	643	675	673	652	716	659
Science and engineering	321	329	292	347	319	328	316	286	329	310
Science	266	254	233	273	262	261	259	228	269	236
Agricultural sciences	25	20	16	18	11	8	8	14	9	4
Biological sciences	58	52	41	50	44	55	57	44	60	58
Computer sciences	9	3	6	9	13	5	10	12	12	7
Earth, atmospheric, and ocean sciences	1	5	4	7	3	3	5	6	6	5
Mathematics	6	5	9	6	7	12	6	11	7	15
Physical sciences	46	40	25	37	40	35	39	36	35	38
Astronomy	0	1	1	0	0	1	0	1	0	2
Chemistry	35	26	17	33	25	23	22	28	27	26
Physics	11	13	7	4	15	11	17	7	8	10
Psychology	38	41	43	37	45	50	42	43	50	38
Social sciences	83	88	89	109	99	93	92	62	90	71
Engineering	55	75	59	74	57	67	57	58	60	74
Aeronautical/astronautical engineering	3	3	1	0	3	1	2	1	1	2
Chemical engineering	7	10	2	7	3	7	6	6	3	7
Civil engineering	7	10	7	4	5	11	9	7	4	3
Electrical engineering	17	27	19	25	19	21	12	17	24	25
Industrial engineering	2	5	2	4	4	3	3	1	2	7
Materials/metallurgical engineering	3	3	7	4	4	2	3	3	3	5
Mechanical engineering	7	11	13	11	13	16	13	8	14	11
Other engineering	9	6	8	19	6	6	9	15	9	14
Non-science and engineering	317	307	317	353	324	347	357	366	387	349
Education	202	171	192	202	187	211	210	233	235	193
Health	13	15	14	12	14	12	16	17	26	31

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	53	68	67	70	70	65	73	61	71	81
Professional/other/unknown	49	53	44	69	53	59	58	55	55	44
Hispanic, all fields[b]	567	625	685	579	609	568	599	666	596	606
Science and engineering	353	393	431	360	379	336	344	378	355	393
Science	269	320	334	300	310	268	271	297	288	333
Agricultural sciences	9	20	22	9	18	12	13	14	5	8
Biological sciences	65	84	90	98	82	88	68	96	84	114
Computer sciences	9	14	14	11	11	4	12	6	10	9
Earth, atmospheric, and ocean sciences	13	10	11	16	13	4	12	9	6	10
Mathematics	11	14	20	10	8	10	8	10	19	18
Physical sciences	55	54	43	41	52	43	41	49	38	42
Astronomy	1	2	2	1	2	6	3	2	4	1
Chemistry	29	32	25	25	30	26	20	27	22	26
Physics	25	20	16	15	20	11	18	20	12	15
Psychology	53	64	56	58	59	46	55	54	56	62
Social sciences	54	60	78	57	67	61	62	59	70	70
Engineering	84	73	97	60	69	68	73	81	67	60
Aeronautical/astronautical engineering	2	4	4	0	3	5	3	4	3	5
Chemical engineering	13	4	13	3	14	2	9	12	8	14
Civil engineering	6	11	13	6	8	7	9	8	16	9
Electrical engineering	23	20	29	26	21	19	27	19	13	13
Industrial engineering	5	2	5	3	0	0	2	3	3	1
Materials/metallurgical engineering	6	6	5	6	4	4	5	10	6	3
Mechanical engineering	13	11	18	8	11	21	7	12	8	7
Other engineering	16	15	10	8	8	10	11	13	10	8
Non-science and engineering	214	232	254	219	230	232	255	288	241	213
Education	87	93	111	91	99	91	104	119	96	83
Health	16	8	12	15	10	8	9	11	9	13
Humanities	85	107	103	90	98	98	116	132	104	83
Professional/other/unknown	26	24	28	23	23	35	26	26	32	34
Mexican American, all fields	166	161	220	163	209	197	179	213	222	237
Science and engineering	95	91	136	91	127	103	82	110	115	135
Science	70	80	109	82	104	90	71	96	96	119
Agricultural sciences	1	2	7	3	5	3	3	6	2	3
Biological sciences	16	22	32	25	27	30	22	32	30	44
Computer sciences	1	2	3	1	3	2	3	1	3	2
Earth, atmospheric, and ocean sciences	3	2	4	4	3	1	4	0	2	2
Mathematics	2	2	3	5	4	3	1	2	7	6
Physical sciences	20	13	18	11	20	14	9	16	11	16
Astronomy	1	0	1	0	1	3	0	1	1	1
Chemistry	13	7	12	5	14	5	4	10	6	8
Physics	6	6	5	6	5	6	5	5	4	7
Psychology	18	20	18	16	22	20	14	17	14	26
Social sciences	9	17	24	17	20	17	15	22	27	20
Engineering	25	11	27	9	23	13	11	14	19	16
Aeronautical/astronautical engineering	1	1	3	0	0	1	1	1	2	3
Chemical engineering	3	2	1	0	3	0	1	3	3	5
Civil engineering	2	1	4	1	4	0	1	1	4	1
Electrical engineering	8	2	7	3	4	6	4	2	4	2
Industrial engineering	1	0	3	1	0	0	0	0	0	0
Materials/metallurgical engineering	1	2	2	1	1	1	0	5	3	1
Mechanical engineering	4	2	3	1	6	4	1	2	0	3
Other engineering	5	1	4	2	5	1	3	0	3	1
Non-science and engineering	71	70	84	72	82	94	97	103	107	102
Education	38	42	45	35	46	50	51	58	56	48

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	2	0	1	5	2	1	4	2	3	7
Humanities	21	22	33	27	27	30	35	36	39	34
Professional/other/unknown	10	6	5	5	7	13	7	7	9	13
Puerto Rican, all fields	114	154	128	140	128	122	148	126	107	99
Science and engineering	74	99	69	87	77	68	92	75	65	68
Science	57	80	53	72	61	59	77	58	48	57
Agricultural sciences	3	3	2	0	3	2	6	0	0	0
Biological sciences	14	21	20	23	11	18	18	21	21	19
Computer sciences	4	6	1	5	4	1	4	2	2	0
Earth, atmospheric, and ocean sciences	3	4	2	4	5	1	3	4	2	3
Mathematics	3	3	4	2	1	2	3	1	1	4
Physical sciences	8	18	6	13	10	10	16	11	7	7
Astronomy	0	0	1	0	0	0	1	0	0	0
Chemistry	6	11	4	9	9	8	7	9	6	6
Physics	2	7	1	4	1	2	8	2	1	1
Psychology	15	20	12	16	14	9	14	10	4	13
Social sciences	7	5	6	9	13	16	13	9	11	11
Engineering	17	19	16	15	16	9	15	17	17	11
Aeronautical/astronautical engineering	0	0	1	0	0	1	0	2	0	0
Chemical engineering	2	1	3	1	3	0	3	4	0	3
Civil engineering	1	5	1	1	2	2	1	3	7	2
Electrical engineering	4	3	3	9	6	2	6	4	3	2
Industrial engineering	1	1	2	0	0	0	1	0	1	1
Materials/metallurgical engineering	2	0	1	2	2	1	2	0	0	1
Mechanical engineering	3	6	5	2	2	1	1	1	3	1
Other engineering	4	3	0	0	1	2	1	3	3	1
Non-science and engineering	40	55	59	53	51	54	56	51	42	31
Education	17	21	28	24	24	26	26	17	17	12
Health	2	3	3	5	3	2	2	0	2	0
Humanities	16	26	20	14	19	18	25	29	17	12
Professional/other/unknown	5	5	8	10	5	8	3	5	6	7
Other Hispanic, all fields	287	310	337	276	272	249	272	327	267	270
Science and engineering	184	203	226	182	175	165	170	193	175	190
Science	142	160	172	146	145	119	123	143	144	157
Agricultural sciences	5	15	13	6	10	7	4	8	3	5
Biological sciences	35	41	38	50	44	40	28	43	33	51
Computer sciences	4	6	10	5	4	1	5	3	5	7
Earth, atmospheric, and ocean sciences	7	4	5	8	5	2	5	5	2	5
Mathematics	6	9	13	3	3	5	4	7	11	8
Physical sciences	27	23	19	17	22	19	16	22	20	19
Astronomy	0	2	0	1	1	3	2	1	3	0
Chemistry	10	14	9	11	7	13	9	8	10	12
Physics	17	7	10	5	14	3	5	13	7	7
Psychology	20	24	26	26	23	17	27	27	38	23
Social sciences	38	38	48	31	34	28	34	28	32	39
Engineering	42	43	54	36	30	46	47	50	31	33
Aeronautical/astronautical engineering	1	3	0	0	3	3	2	1	1	2
Chemical engineering	8	1	9	2	8	2	5	5	5	6
Civil engineering	3	5	8	4	2	5	7	4	5	6
Electrical engineering	11	15	19	14	11	11	17	13	6	9
Industrial engineering	3	1	0	2	0	0	1	3	2	0
Materials/metallurgical engineering	3	4	2	3	1	2	3	5	3	1
Mechanical engineering	6	3	10	5	3	16	5	9	5	3
Other engineering	7	11	6	6	2	7	7	10	4	6

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	103	107	111	94	97	84	102	134	92	80
Education	32	30	38	32	29	15	27	44	23	23
Health	12	5	8	5	5	5	3	9	4	6
Humanities	48	59	50	49	52	50	56	67	48	37
Professional/other/unknown	11	13	15	8	11	14	16	14	17	14
White, all fields	13,224	12,994	12,892	12,681	12,309	11,661	10,789	10,814	10,770	10,736
Science and engineering	8,647	8,559	8,514	8,263	7,932	7,475	6,872	6,892	6,933	6,954
Science	6,732	6,603	6,651	6,504	6,376	6,040	5,671	5,633	5,703	5,645
Agricultural sciences	340	331	300	309	294	273	266	308	299	305
Biological sciences	1,771	1,758	1,811	1,726	1,797	1,770	1,727	1,610	1,721	1,730
Computer sciences	295	295	329	285	275	262	232	243	250	266
Earth, atmospheric, and ocean sciences	314	330	310	277	287	232	234	256	227	246
Mathematics	373	344	378	347	338	308	258	297	274	307
Physical sciences	1,449	1,462	1,459	1,438	1,260	1,245	1,124	1,116	1,086	1,071
Astronomy	101	110	96	86	89	77	68	80	67	72
Chemistry	754	773	785	797	665	678	666	688	635	617
Physics	594	579	578	555	506	490	390	348	384	382
Psychology	909	833	882	912	881	816	747	710	732	734
Social sciences	1,281	1,250	1,182	1,210	1,244	1,134	1,083	1,093	1,114	986
Engineering	1,915	1,956	1,863	1,759	1,556	1,435	1,201	1,259	1,230	1,309
Aeronautical/astronautical engineering	139	125	115	89	94	65	66	58	53	66
Chemical engineering	205	241	223	236	213	214	171	160	170	187
Civil engineering	168	180	172	194	160	143	144	159	110	136
Electrical engineering	523	525	470	466	389	334	274	272	278	311
Industrial engineering	65	60	58	54	43	38	33	32	40	37
Materials/metallurgical engineering	173	184	196	144	153	130	93	121	135	118
Mechanical engineering	353	344	334	291	246	275	207	219	179	209
Other engineering	289	297	295	285	258	236	213	238	265	245
Non-science and engineering	4,577	4,435	4,378	4,418	4,377	4,186	3,917	3,922	3,837	3,782
Education	1,830	1,621	1,585	1,602	1,536	1,492	1,368	1,385	1,370	1,314
Health	212	219	235	257	270	265	283	269	264	275
Humanities	1,735	1,846	1,856	1,906	1,900	1,820	1,725	1,723	1,658	1,636
Professional/other/unknown	800	749	702	653	671	609	541	545	545	557
Other/unknown, all fields[c]	284	661	632	365	414	473	466	637	601	442
Science and engineering	197	426	413	250	280	318	301	430	424	305
Science	162	313	309	183	215	248	226	366	340	256
Agricultural sciences	8	14	11	8	13	6	7	13	17	6
Biological sciences	37	62	74	43	71	74	66	112	85	68
Computer sciences	13	26	18	14	11	12	7	20	18	20
Earth, atmospheric, and ocean sciences	6	14	17	8	9	14	5	12	13	7
Mathematics	8	19	20	13	6	7	11	19	20	12
Physical sciences	43	66	77	37	41	52	50	76	82	53
Astronomy	4	11	10	1	4	4	3	12	6	6
Chemistry	16	29	37	19	26	25	25	43	43	22
Physics	23	26	30	17	11	23	22	21	33	25
Psychology	9	39	35	11	17	31	24	38	30	35
Social sciences	38	73	57	49	47	52	56	76	75	55
Engineering	35	113	104	67	65	70	75	64	84	49
Aeronautical/astronautical engineering	0	8	8	1	2	4	1	1	2	4
Chemical engineering	5	13	13	5	4	11	11	6	12	8
Civil engineering	1	9	15	5	7	14	7	8	3	5
Electrical engineering	13	40	18	21	19	13	22	20	27	12
Industrial engineering	1	3	3	1	3	4	2	2	5	1
Materials/metallurgical engineering	5	8	12	7	6	6	4	4	6	1
Mechanical engineering	3	14	17	15	12	10	16	12	12	7
Other engineering	7	18	18	12	12	8	12	11	17	11

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	87	235	219	115	134	155	165	207	177	137
Education	33	94	67	36	34	40	62	71	49	43
Health	4	6	14	6	9	7	9	17	15	13
Humanities	35	96	101	52	75	84	78	92	74	58
Professional/other/unknown	15	39	37	21	16	24	16	27	39	23

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	14,338	14,171	14,605	14,404	14,639	14,174	13,933	14,231	14,259	14,337
Science and engineering	6,965	6,989	7,184	7,073	7,134	6,872	6,702	6,830	6,853	7,138
Science	6,439	6,477	6,732	6,580	6,642	6,392	6,259	6,389	6,381	6,660
Agricultural sciences	185	176	205	185	195	195	181	200	226	224
Biological sciences	1,941	1,920	1,925	1,864	1,988	1,973	1,918	1,918	2,006	2,168
Computer sciences	91	100	123	106	86	98	97	99	102	105
Earth, atmospheric, and ocean sciences	121	150	157	135	145	138	163	153	175	164
Mathematics	145	177	199	192	164	155	135	152	154	151
Physical sciences	608	581	599	547	540	523	530	561	502	562
Astronomy	35	26	27	26	35	29	21	30	33	34
Chemistry	439	431	465	426	422	407	418	417	383	446
Physics	134	124	107	95	83	87	91	114	86	82
Psychology	2,185	2,106	2,212	2,229	2,178	2,004	1,879	1,964	1,891	1,990
Social sciences	1,163	1,267	1,312	1,322	1,346	1,306	1,356	1,342	1,325	1,296
Engineering	526	512	452	493	492	480	443	441	472	478
Aeronautical/astronautical engineering	18	12	12	10	14	19	11	11	10	11
Chemical engineering	98	77	76	75	101	93	88	72	80	84
Civil engineering	47	58	58	61	48	66	57	69	66	79
Electrical engineering	106	106	91	81	93	68	66	65	68	80
Industrial engineering	36	28	24	31	18	28	32	22	20	17
Materials/metallurgical engineering	64	71	51	55	54	54	46	45	38	49
Mechanical engineering	60	55	51	60	56	38	44	40	44	43
Other engineering	97	105	89	120	108	114	99	117	146	115
Non-science and engineering	7,373	7,182	7,421	7,331	7,505	7,302	7,231	7,401	7,406	7,199
Education	3,832	3,687	3,692	3,801	3,758	3,560	3,605	3,785	3,648	3,560
Health	723	740	843	720	854	801	856	872	921	919
Humanities	2,046	2,035	2,106	2,084	2,175	2,226	2,042	2,056	2,064	1,925
Professional/other/unknown	772	720	780	726	718	715	728	688	773	795
American Indian/Alaska Native, all fields	85	88	85	118	93	82	81	84	73	83
Science and engineering	35	34	42	55	45	32	33	39	27	32
Science	33	31	38	53	41	30	33	36	25	31
Agricultural sciences	4	0	2	0	1	0	0	1	2	2
Biological sciences	9	3	6	10	7	7	6	8	4	6
Computer sciences	2	1	0	1	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	1	1	3	1	0	0	1	0	3
Mathematics	0	0	2	0	1	1	1	1	0	0
Physical sciences	1	0	1	3	2	2	0	1	1	0
Astronomy	0	0	0	1	1	0	0	0	0	0
Chemistry	1	0	1	2	1	2	0	1	0	0
Physics	0	0	0	0	0	0	0	0	1	0
Psychology	9	12	18	23	19	12	8	14	9	9
Social sciences	8	14	8	13	10	8	18	10	9	11
Engineering	2	3	4	2	4	2	0	3	2	1
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	0
Chemical engineering	0	1	3	1	1	0	0	1	1	0
Civil engineering	1	1	0	1	1	0	0	0	1	0
Electrical engineering	1	0	0	0	0	0	0	0	0	0
Industrial engineering	0	0	0	0	0	0	0	0	0	0
Materials engineering	0	0	0	0	0	0	0	0	0	0
Mechanical engineering	0	1	0	0	1	0	0	1	0	1
Other engineering	0	0	1	0	1	2	0	1	0	0
Non-science and engineering	50	54	43	63	48	50	48	45	46	51
Education	38	33	24	39	34	30	30	31	33	35
Health	3	4	3	6	3	4	3	1	3	2

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	8	11	7	10	9	12	8	8	5	11
Professional/other/unknown	1	6	9	8	2	4	7	5	5	3
Asian, all fields[a]	1,284	1,224	1,080	1,020	1,033	999	989	967	1,055	1,107
Science and engineering	974	889	767	715	680	683	677	645	677	745
Science	840	770	670	630	570	584	579	564	593	645
Agricultural sciences	29	20	25	19	12	13	15	16	23	13
Biological sciences	403	348	292	276	263	267	290	254	260	284
Computer sciences	16	26	23	19	15	20	26	17	19	27
Earth, atmospheric, and ocean sciences	12	18	13	10	9	7	10	8	4	9
Mathematics	36	28	27	20	21	17	5	24	17	28
Physical sciences	145	131	103	93	70	73	61	72	53	66
Astronomy	4	1	3	0	4	0	0	3	3	2
Chemistry	108	92	74	80	54	61	50	50	42	51
Physics	33	38	26	13	12	12	11	19	8	13
Psychology	90	95	84	98	99	89	81	81	126	105
Social sciences	109	104	103	95	81	98	91	92	91	113
Engineering	134	119	97	85	110	99	98	81	84	100
Aeronautical/astronautical engineering	6	0	0	1	0	4	2	2	1	0
Chemical engineering	18	12	19	14	22	19	21	10	18	15
Civil engineering	14	14	6	5	10	9	7	3	11	13
Electrical engineering	30	39	31	26	33	29	26	30	20	23
Industrial engineering	4	1	2	1	2	6	2	3	3	2
Materials/metallurgical engineering	18	16	15	10	11	9	10	6	8	10
Mechanical engineering	17	16	11	11	16	8	15	9	6	7
Other engineering	27	21	13	17	16	15	15	18	17	30
Non-science and engineering	310	335	313	305	353	316	312	322	378	362
Education	111	128	106	103	121	103	99	109	118	110
Health	40	50	48	48	63	64	71	49	64	83
Humanities	104	107	113	111	113	104	101	117	129	119
Professional/other/unknown	55	50	46	43	56	45	41	47	67	50
Black/African American, all fields	808	839	993	1,063	1,107	1,053	1,079	1,144	1,268	1,136
Science and engineering	251	286	351	368	391	373	371	378	422	395
Science	232	263	329	344	367	348	343	359	388	369
Agricultural sciences	1	6	5	9	11	6	5	8	11	12
Biological sciences	40	60	70	66	74	84	67	64	89	100
Computer sciences	3	1	8	10	5	10	7	5	5	8
Earth, atmospheric, and ocean sciences	1	1	1	4	1	2	0	7	1	1
Mathematics	2	2	7	6	7	7	8	5	3	7
Physical sciences	13	11	31	29	21	20	28	19	25	17
Astronomy	0	1	0	2	1	0	1	0	0	0
Chemistry	10	9	28	23	19	19	22	14	20	15
Physics	3	1	3	4	1	1	5	5	5	2
Psychology	114	111	115	135	144	122	128	126	156	126
Social sciences	58	71	92	85	104	97	100	125	98	98
Engineering	19	23	22	24	24	25	28	19	34	26
Aeronautical/astronautical engineering	2	0	0	1	1	0	0	0	0	0
Chemical engineering	5	6	1	4	5	10	6	3	7	7
Civil engineering	1	0	2	2	1	0	4	2	3	6
Electrical engineering	5	4	4	5	2	1	4	4	9	6
Industrial engineering	1	4	6	3	0	3	1	2	1	1
Materials/metallurgical engineering	0	1	3	3	1	4	2	1	3	0
Mechanical engineering	3	1	0	1	5	1	4	1	3	0
Other engineering	2	7	6	5	9	6	7	6	8	6
Non-science and engineering	557	553	642	695	716	680	708	766	846	741
Education	405	382	462	487	508	460	483	525	561	488

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	35	40	51	45	61	52	57	61	81	91
Humanities	63	74	72	94	88	103	87	93	98	87
Professional/other/unknown	54	57	57	69	59	65	81	87	106	75
Hispanic, all fields[b]	546	574	644	745	700	697	769	763	703	820
Science and engineering	273	266	326	362	350	333	379	366	363	406
Science	258	243	313	339	337	310	354	343	342	377
Agricultural sciences	4	7	13	7	11	14	8	11	11	10
Biological sciences	66	63	79	76	92	77	114	80	108	113
Computer sciences	7	2	1	3	3	4	2	5	3	3
Earth, atmospheric, and ocean sciences	6	5	6	4	3	5	2	6	5	8
Mathematics	0	6	7	5	7	5	4	7	7	6
Physical sciences	12	15	11	22	25	22	22	23	24	32
Astronomy	1	1	0	0	1	1	1	1	2	2
Chemistry	7	12	9	21	21	17	18	18	21	29
Physics	4	2	2	1	3	4	3	4	1	1
Psychology	120	107	152	158	151	123	129	116	116	126
Social sciences	43	38	44	64	45	60	73	95	68	79
Engineering	15	23	13	23	13	23	25	23	21	29
Aeronautical/astronautical engineering	0	0	1	0	0	0	0	0	0	1
Chemical engineering	6	3	0	4	4	5	7	4	4	7
Civil engineering	0	1	3	6	1	2	0	5	4	2
Electrical engineering	4	6	2	4	1	3	4	4	2	2
Industrial engineering	1	3	2	1	0	3	4	1	0	1
Materials/metallurgical engineering	0	4	3	2	4	5	2	3	1	7
Mechanical engineering	0	3	1	1	1	0	5	1	2	6
Other engineering	4	3	1	5	2	5	3	5	8	3
Non-science and engineering	273	308	318	383	350	364	390	397	340	414
Education	131	164	178	212	186	184	217	219	175	208
Health	22	24	25	31	24	20	24	33	37	30
Humanities	93	101	95	107	110	132	124	115	103	126
Professional/other/unknown	27	19	20	33	30	28	25	30	25	50
Mexican American, all fields	127	145	204	187	206	205	234	269	235	282
Science and engineering	54	70	87	73	87	84	104	114	117	113
Science	51	63	84	69	84	79	98	109	112	105
Agricultural sciences	1	0	3	0	2	2	4	2	4	0
Biological sciences	12	22	22	16	19	17	31	23	28	27
Computer sciences	0	0	0	0	1	0	0	2	0	1
Earth, atmospheric, and ocean sciences	2	1	1	1	1	3	0	0	1	1
Mathematics	0	1	3	2	4	3	1	3	1	2
Physical sciences	3	2	3	5	3	2	6	10	10	4
Astronomy	0	0	0	0	0	0	1	0	1	1
Chemistry	2	2	3	4	3	2	3	9	8	3
Physics	1	0	0	1	0	0	2	1	1	0
Psychology	20	29	35	27	39	36	36	35	39	36
Social sciences	13	8	17	18	15	16	20	34	29	34
Engineering	3	7	3	4	3	5	6	5	5	8
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	0
Chemical engineering	1	1	0	0	1	0	2	1	0	1
Civil engineering	0	1	1	2	0	1	0	0	1	0
Electrical engineering	1	3	0	1	0	2	0	1	1	1
Industrial engineering	0	0	0	0	0	0	0	0	0	0
Materials/metallurgical engineering	0	2	2	0	2	2	1	2	1	2
Mechanical engineering	0	0	0	0	0	0	2	0	0	3
Other engineering	1	0	0	1	0	0	1	1	2	1

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	73	75	117	114	119	121	130	155	118	169
Education	41	48	71	68	69	66	89	101	74	98
Health	4	7	14	11	9	5	5	11	6	13
Humanities	20	16	26	22	35	40	30	30	31	43
Professional/other/unknown	8	4	6	13	6	10	6	13	7	15
Puerto Rican, all fields	138	160	180	194	197	174	197	134	152	165
Science and engineering	68	73	104	96	105	81	104	72	75	91
Science	63	69	103	88	101	77	93	70	73	86
Agricultural sciences	1	1	1	1	3	4	3	3	4	5
Biological sciences	18	16	23	23	22	30	38	13	30	34
Computer sciences	1	0	1	1	0	0	0	0	2	0
Earth, atmospheric, and ocean sciences	0	2	3	1	0	0	0	0	3	2
Mathematics	0	1	3	0	1	0	0	2	1	1
Physical sciences	4	2	5	9	10	4	4	6	9	10
Astronomy	0	0	0	0	0	0	0	1	0	0
Chemistry	3	2	5	9	10	3	4	5	9	10
Physics	1	0	0	0	0	1	0	0	0	0
Psychology	33	36	59	41	59	30	36	37	15	24
Social sciences	6	11	8	12	6	9	12	9	9	10
Engineering	5	4	1	8	4	4	11	2	2	5
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	2	0	0	1	2	2	5	0	1	2
Civil engineering	0	0	0	1	0	0	0	1	0	0
Electrical engineering	0	1	0	2	0	0	1	0	1	0
Industrial engineering	1	1	1	1	0	2	2	0	0	0
Materials/metallurgical engineering	0	1	0	1	1	0	0	0	0	1
Mechanical engineering	0	0	0	0	0	0	2	1	0	0
Other engineering	2	1	0	2	1	0	1	0	0	1
Non-science and engineering	70	87	76	98	92	93	93	62	77	74
Education	35	51	49	66	51	61	54	35	39	30
Health	5	7	4	6	6	3	7	4	14	6
Humanities	22	23	17	17	25	23	25	13	18	24
Professional/other/unknown	8	6	6	9	10	6	7	10	6	14
Other Hispanic, all fields	281	269	260	364	297	318	338	360	316	373
Science and engineering	151	123	135	193	158	168	171	180	171	202
Science	144	111	126	182	152	154	163	164	157	186
Agricultural sciences	2	6	9	6	6	8	1	6	3	5
Biological sciences	36	25	34	37	51	30	45	44	50	52
Computer sciences	6	2	0	2	2	4	2	3	1	2
Earth, atmospheric, and ocean sciences	4	2	2	2	2	2	2	6	1	5
Mathematics	0	4	1	3	2	2	3	2	5	3
Physical sciences	5	11	3	8	12	16	12	7	5	18
Astronomy	1	1	0	0	1	1	0	0	1	1
Chemistry	2	8	1	8	8	12	11	4	4	16
Physics	2	2	2	0	3	3	1	3	0	1
Psychology	67	42	58	90	53	57	57	44	62	66
Social sciences	24	19	19	34	24	35	41	52	30	35
Engineering	7	12	9	11	6	14	8	16	14	16
Aeronautical/astronautical engineering	0	0	1	0	0	0	0	0	0	0
Chemical engineering	3	2	0	3	1	3	0	3	3	4
Civil engineering	0	0	2	3	1	1	0	4	3	2
Electrical engineering	3	2	2	1	1	1	3	3	0	1
Industrial engineering	0	2	1	0	0	1	2	1	0	1
Materials/metallurgical engineering	0	1	1	1	1	3	1	1	0	4
Mechanical engineering	0	3	1	1	1	0	1	0	2	3
Other engineering	1	2	1	2	1	5	1	4	6	1

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	130	146	125	171	139	150	167	180	145	171
Education	55	65	58	78	66	57	74	83	62	80
Health	13	10	7	14	9	12	12	18	17	11
Humanities	51	62	52	68	50	69	69	72	54	59
Professional/other/unknown	11	9	8	11	14	12	12	7	12	21
White, all fields	11,445	10,965	11,393	11,219	11,402	10,957	10,597	10,722	10,649	10,736
Science and engineering	5,348	5,267	5,497	5,458	5,511	5,250	5,038	5,131	5,098	5,319
Science	5,000	4,935	5,190	5,106	5,177	4,932	4,761	4,830	4,781	5,024
Agricultural sciences	145	135	154	147	158	157	150	157	171	181
Biological sciences	1,399	1,398	1,438	1,402	1,510	1,488	1,392	1,449	1,467	1,607
Computer sciences	61	66	84	71	62	60	59	65	70	61
Earth, atmospheric, and ocean sciences	101	118	133	110	124	122	140	123	152	138
Mathematics	105	135	150	159	126	120	112	110	125	106
Physical sciences	428	407	442	391	414	391	409	421	382	430
Astronomy	30	22	24	23	26	27	18	24	26	28
Chemistry	308	305	344	293	323	296	320	315	287	339
Physics	90	80	74	75	65	68	71	82	69	63
Psychology	1,834	1,690	1,764	1,789	1,725	1,594	1,481	1,550	1,405	1,552
Social sciences	927	986	1,025	1,037	1,058	1,000	1,018	955	1,009	949
Engineering	348	332	307	352	334	318	277	301	317	295
Aeronautical/astronautical engineering	10	12	11	8	13	14	8	8	7	8
Chemical engineering	69	52	52	50	67	59	52	50	48	50
Civil engineering	31	40	45	47	34	51	41	58	46	55
Electrical engineering	66	54	53	44	55	34	30	24	36	41
Industrial engineering	29	20	14	26	16	16	23	15	16	12
Materials/metallurgical engineering	44	50	29	40	37	35	30	33	25	30
Mechanical engineering	39	33	37	45	33	27	20	27	31	28
Other engineering	60	71	66	92	79	82	73	86	108	71
Non-science and engineering	6,097	5,698	5,896	5,761	5,891	5,707	5,559	5,591	5,551	5,417
Education	3,110	2,836	2,824	2,903	2,838	2,706	2,677	2,774	2,655	2,641
Health	610	609	694	580	690	643	684	697	705	687
Humanities	1,748	1,678	1,749	1,713	1,805	1,804	1,650	1,625	1,644	1,497
Professional/other/unknown	629	575	629	565	558	554	548	495	547	592
Other/unknown, all fields[c]	170	481	410	239	304	386	418	551	511	455
Science and engineering	84	247	201	115	157	201	204	271	266	241
Science	76	235	192	108	150	188	189	257	252	214
Agricultural sciences	2	8	6	3	2	5	3	7	8	6
Biological sciences	24	48	40	34	42	50	49	63	78	58
Computer sciences	2	4	7	2	1	4	3	7	5	6
Earth, atmospheric, and ocean sciences	1	7	3	4	7	2	11	8	13	5
Mathematics	2	6	6	2	2	5	5	5	2	4
Physical sciences	9	17	11	9	8	15	10	25	17	17
Astronomy	0	1	0	0	2	1	1	2	2	2
Chemistry	5	13	9	7	4	12	8	19	13	12
Physics	4	3	2	2	2	2	1	4	2	3
Psychology	18	91	79	26	40	64	52	77	79	72
Social sciences	18	54	40	28	48	43	56	65	50	46
Engineering	8	12	9	7	7	13	15	14	14	27
Aeronautical/astronautical engineering	0	0	0	0	0	1	1	1	2	2
Chemical engineering	0	3	1	2	2	0	2	4	2	5
Civil engineering	0	2	2	0	1	4	5	1	1	3
Electrical engineering	0	3	1	2	2	1	2	3	1	8
Industrial engineering	1	0	0	0	0	0	2	1	0	1
Materials/metallurgical engineering	2	0	1	0	1	1	2	2	1	2

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	1	1	2	2	0	2	0	1	2	1
Other engineering	4	3	2	1	1	4	1	1	5	5
Non-science and engineering	86	234	209	124	147	185	214	280	245	214
Education	37	144	98	57	71	77	99	127	106	78
Health	13	13	22	10	13	18	17	31	31	26
Humanities	30	64	70	49	50	71	72	98	85	85
Professional/other/unknown	6	13	19	8	13	19	26	24	23	25

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	27,777	28,151	28,533	27,992	27,986	26,975	25,998	26,499	26,466	26,312
Science and engineering	15,639	16,112	16,297	15,915	15,707	15,049	14,341	14,635	14,741	14,912
Science	13,043	13,373	13,728	13,428	13,484	12,896	12,448	12,723	12,796	12,913
Agricultural sciences	517	532	506	506	498	469	460	521	531	527
Biological sciences	3,547	3,670	3,773	3,659	3,904	3,909	3,798	3,796	3,963	4,141
Computer sciences	422	430	479	421	389	369	356	389	397	405
Earth, atmospheric, and ocean sciences	426	488	477	423	444	382	397	419	415	421
Mathematics	490	530	581	539	518	471	412	471	456	480
Physical sciences	2,069	2,115	2,134	2,024	1,871	1,854	1,762	1,800	1,740	1,768
Astronomy	137	151	132	111	127	120	101	125	113	120
Chemistry	1,170	1,233	1,294	1,256	1,119	1,131	1,135	1,172	1,112	1,131
Physics	762	731	708	657	625	603	526	503	515	517
Psychology	3,129	3,036	3,187	3,223	3,155	2,902	2,722	2,786	2,723	2,811
Social sciences	2,443	2,572	2,591	2,633	2,705	2,540	2,541	2,541	2,571	2,360
Engineering	2,596	2,739	2,569	2,487	2,223	2,153	1,893	1,912	1,945	1,999
Aeronautical/astronautical engineering	166	155	140	103	117	94	82	70	71	93
Chemical engineering	318	321	328	333	340	333	301	272	292	294
Civil engineering	212	249	246	261	221	223	211	239	190	211
Electrical engineering	708	753	639	639	533	469	422	410	421	466
Industrial engineering	107	102	84	86	67	74	71	55	63	59
Materials/metallurgical engineering	245	271	265	225	221	202	164	176	192	177
Mechanical engineering	436	456	435	399	341	386	286	288	270	292
Other engineering	404	432	432	441	383	372	356	402	446	407
Non-science and engineering	12,138	12,039	12,236	12,077	12,279	11,926	11,657	11,864	11,725	11,400
Education	5,879	5,580	5,581	5,638	5,559	5,334	5,292	5,514	5,333	5,136
Health	933	959	1,073	972	1,119	1,063	1,125	1,164	1,192	1,206
Humanities	3,728	3,948	4,031	4,010	4,161	4,113	3,913	3,900	3,812	3,643
Professional/other/unknown	1,598	1,552	1,551	1,457	1,440	1,416	1,327	1,286	1,388	1,415
American Indian/Alaska Native, all fields	185	167	189	214	169	148	146	134	129	139
Science and engineering	94	79	96	114	88	71	66	72	59	66
Science	80	62	83	102	80	65	60	61	54	58
Agricultural sciences	7	5	9	1	5	0	2	4	4	3
Biological sciences	20	7	12	20	17	15	12	11	14	12
Computer sciences	4	1	4	1	1	0	1	2	2	1
Earth, atmospheric, and ocean sciences	1	3	3	6	4	0	0	2	4	4
Mathematics	1	1	3	1	2	1	3	2	0	0
Physical sciences	6	9	9	9	9	12	7	2	5	4
Astronomy	0	1	1	1	1	1	0	0	0	0
Chemistry	4	6	7	5	7	11	5	2	4	2
Physics	2	2	1	3	1	0	2	0	1	2
Psychology	17	18	31	35	22	17	15	22	12	15
Social sciences	24	18	12	29	20	20	20	16	13	19
Engineering	14	17	13	12	8	6	6	11	5	8
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	1	4	3	2	1	1	1	1	2	0
Civil engineering	2	2	0	2	1	0	0	1	3	0
Electrical engineering	2	5	3	1	0	1	0	5	0	2
Industrial engineering	3	0	0	0	0	0	1	0	0	0
Materials/metallurgical engineering	2	0	2	2	0	1	1	0	0	0
Mechanical engineering	3	6	2	2	3	1	1	0	0	4
Other engineering	1	0	3	3	3	2	2	4	0	1
Non-science and engineering	91	88	93	100	81	77	80	62	70	73
Education	60	51	50	58	51	42	46	39	47	43
Health	4	6	4	6	4	6	3	2	3	4

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	18	19	21	21	20	21	20	15	12	20
Professional/other/unknown	9	12	18	15	6	8	11	6	8	6
Asian, all fields[a]	1,066	1,295	1,185	1,305	1,365	1,411	1,364	1,372	1,451	1,493
Science and engineering	821	999	897	987	992	1,053	1,035	1,008	1,066	1,114
Science	550	709	651	724	751	790	788	797	838	872
Agricultural sciences	13	22	9	22	15	11	13	9	13	13
Biological sciences	233	255	258	288	318	361	373	379	380	409
Computer sciences	37	42	40	43	41	36	50	45	42	52
Earth, atmospheric, and ocean sciences	7	10	6	14	8	12	5	8	6	11
Mathematics	23	33	26	29	44	32	19	38	29	38
Physical sciences	105	150	122	123	101	123	118	110	126	140
Astronomy	5	6	6	2	8	6	8	8	7	7
Chemistry	55	81	76	88	49	73	73	63	85	85
Physics	45	63	40	33	44	44	37	39	34	48
Psychology	75	101	93	110	121	100	105	104	134	110
Social sciences	57	96	97	95	103	115	105	104	108	99
Engineering	271	290	246	263	241	263	247	211	228	242
Aeronautical/astronautical engineering	14	8	8	9	5	10	6	7	7	7
Chemical engineering	27	17	36	32	44	37	48	36	46	33
Civil engineering	17	13	16	20	18	16	14	10	12	13
Electrical engineering	109	128	87	92	79	82	80	80	63	77
Industrial engineering	8	11	1	2	5	12	4	4	4	3
Materials/metallurgical engineering	22	25	16	27	23	23	24	15	23	15
Mechanical engineering	40	50	37	42	39	48	31	26	37	32
Other engineering	34	38	45	39	28	35	40	33	36	62
Non-science and engineering	245	296	288	318	373	358	329	364	385	379
Education	87	100	99	102	125	104	98	108	113	112
Health	37	42	32	45	55	66	55	69	63	84
Humanities	78	104	103	112	124	120	132	130	142	131
Professional/other/unknown	43	50	54	59	69	68	44	57	67	52
Black/African American, all fields	1,305	1,336	1,485	1,630	1,631	1,611	1,665	1,708	1,881	1,688
Science and engineering	487	530	574	638	646	630	636	615	689	640
Science	428	447	501	553	572	548	560	544	605	555
Agricultural sciences	16	15	10	19	12	9	9	18	18	13
Biological sciences	82	101	101	109	110	125	114	100	136	142
Computer sciences	12	4	12	17	13	13	17	17	15	15
Earth, atmospheric, and ocean sciences	1	3	5	8	3	5	4	11	6	6
Mathematics	8	6	12	10	14	17	13	14	8	16
Physical sciences	45	45	51	54	52	46	62	48	49	47
Astronomy	0	2	1	2	1	1	1	1	0	2
Chemistry	34	31	40	46	36	36	41	35	40	35
Physics	11	12	10	6	15	9	20	12	9	10
Psychology	144	142	152	168	184	167	162	163	204	159
Social sciences	120	131	158	168	184	166	179	173	169	157
Engineering	59	83	73	85	74	82	76	71	84	85
Aeronautical/astronautical engineering	5	3	1	1	4	0	2	1	1	2
Chemical engineering	10	12	3	9	8	16	10	8	9	11
Civil engineering	6	9	7	5	5	7	10	6	5	7
Electrical engineering	17	27	22	26	19	20	15	21	31	28
Industrial engineering	2	7	6	7	4	6	4	2	3	7
Materials/metallurgical engineering	2	3	9	5	4	5	5	3	5	4
Mechanical engineering	9	10	12	10	17	17	16	9	14	8
Other engineering	8	12	13	22	13	11	14	21	16	18
Non-science and engineering	818	806	911	992	985	981	1,029	1,093	1,192	1,048
Education	580	527	628	661	676	650	677	743	781	661

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	42	51	60	51	67	60	68	74	101	114
Humanities	105	126	131	150	145	158	153	142	157	158
Professional/other/unknown	91	102	92	130	97	113	131	134	153	115
Hispanic, all fields[b]	957	1,064	1,209	1,184	1,182	1,122	1,237	1,280	1,178	1,294
Science and engineering	534	575	687	646	651	581	652	659	645	722
Science	447	493	587	575	582	507	564	568	572	649
Agricultural sciences	9	15	25	11	20	21	20	19	15	14
Biological sciences	109	132	151	154	155	149	161	158	175	207
Computer sciences	12	15	13	12	11	6	13	9	12	9
Earth, atmospheric, and ocean sciences	13	15	16	18	16	5	11	10	10	15
Mathematics	9	17	25	12	13	14	11	15	21	23
Physical sciences	51	58	49	56	71	61	55	61	56	69
Astronomy	1	3	2	1	1	7	3	3	6	3
Chemistry	32	36	34	41	49	39	35	38	38	52
Physics	18	19	13	14	21	15	17	20	12	14
Psychology	167	161	198	206	203	155	179	162	164	178
Social sciences	77	80	110	106	93	96	114	134	119	134
Engineering	87	82	100	71	69	74	88	91	73	73
Aeronautical/astronautical engineering	1	4	5	0	3	5	2	4	3	6
Chemical engineering	15	6	10	5	13	5	16	14	9	15
Civil engineering	2	10	15	11	8	8	8	11	16	10
Electrical engineering	27	23	27	28	19	15	28	21	12	11
Industrial engineering	6	4	7	2	0	3	5	3	1	1
Materials/metallurgical engineering	6	10	8	7	7	8	7	9	7	10
Mechanical engineering	11	13	19	8	10	17	10	12	9	12
Other engineering	19	12	9	10	9	13	12	17	16	8
Non-science and engineering	423	489	522	538	531	541	585	621	533	572
Education	205	247	285	289	275	267	307	328	260	277
Health	31	29	37	39	33	22	30	38	43	41
Humanities	138	173	156	160	176	194	204	205	180	177
Professional/other/unknown	49	40	44	50	47	58	44	50	50	77
Mexican American, all fields	282	297	410	339	400	379	400	458	431	497
Science and engineering	142	154	214	155	206	170	183	209	217	237
Science	116	136	186	144	180	153	167	194	195	213
Agricultural sciences	2	2	9	3	6	4	7	7	6	3
Biological sciences	28	40	49	39	44	47	52	53	54	68
Computer sciences	1	2	3	0	3	2	3	3	3	2
Earth, atmospheric, and ocean sciences	5	3	5	5	4	2	4	0	3	3
Mathematics	2	3	6	7	8	6	2	4	7	7
Physical sciences	20	14	21	15	22	15	15	25	20	19
Astronomy	1	0	1	0	0	3	1	1	2	2
Chemistry	14	9	15	9	17	6	7	19	13	10
Physics	5	5	5	6	5	6	7	5	5	7
Psychology	38	49	52	40	60	49	50	51	51	58
Social sciences	20	23	41	35	33	28	34	51	51	53
Engineering	26	18	28	11	26	17	16	15	22	24
Aeronautical/astronautical engineering	1	1	3	0	0	1	1	1	2	3
Chemical engineering	4	3	1	0	4	0	3	3	2	6
Civil engineering	0	2	5	3	4	1	1	0	5	1
Electrical engineering	9	5	6	3	4	8	4	3	4	3
Industrial engineering	1	0	3	1	0	0	0	0	0	0
Materials/metallurgical engineering	1	4	4	1	3	2	1	5	4	3
Mechanical engineering	4	2	3	1	6	4	3	2	0	6
Other engineering	6	1	3	2	5	1	3	1	5	2

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	140	143	196	184	194	209	217	249	214	260
Education	78	89	116	103	113	116	137	155	126	143
Health	6	7	15	14	11	6	8	13	9	20
Humanities	39	37	54	49	57	65	60	61	65	71
Professional/other/unknown	17	10	11	18	13	22	12	20	14	26
Puerto Rican, all fields	252	314	308	334	326	296	345	260	259	264
Science and engineering	142	172	173	183	183	149	196	147	140	159
Science	120	149	156	160	163	136	170	128	121	143
Agricultural sciences	4	4	3	1	6	6	9	3	4	5
Biological sciences	32	37	43	46	33	48	56	34	51	53
Computer sciences	5	6	2	6	4	1	4	2	4	0
Earth, atmospheric, and ocean sciences	3	6	5	5	5	1	3	4	5	5
Mathematics	3	4	7	2	2	2	3	3	2	5
Physical sciences	12	20	11	22	20	14	20	17	16	17
Astronomy	0	0	1	0	0	0	1	1	0	0
Chemistry	9	13	9	18	19	11	11	14	15	16
Physics	3	7	1	4	1	3	8	2	1	1
Psychology	48	56	71	57	74	39	50	47	19	37
Social sciences	13	16	14	21	19	25	25	18	20	21
Engineering	22	23	17	23	20	13	26	19	19	16
Aeronautical/astronautical engineering	0	0	1	0	0	1	0	2	0	1
Chemical engineering	4	1	3	2	5	2	8	4	1	5
Civil engineering	1	5	1	2	2	2	1	4	7	2
Electrical engineering	4	4	3	11	6	2	7	4	4	2
Industrial engineering	2	2	3	1	0	2	3	0	1	1
Materials/metallurgical engineering	2	1	1	3	3	1	2	0	0	2
Mechanical engineering	3	6	5	2	2	1	3	2	3	1
Other engineering	6	4	0	2	2	2	2	3	3	2
Non-science and engineering	110	142	135	151	143	147	149	113	119	105
Education	52	72	77	90	75	87	80	52	56	42
Health	7	10	7	11	9	5	9	4	16	6
Humanities	38	49	37	31	44	41	50	42	35	36
Professional/other/unknown	13	11	14	19	15	14	10	15	12	21
Other Hispanic, all fields	423	453	491	511	456	447	492	562	488	533
Science and engineering	250	249	300	308	262	262	273	303	288	326
Science	211	208	245	271	239	218	227	246	256	293
Agricultural sciences	3	9	13	7	8	11	4	9	5	6
Biological sciences	49	55	59	69	78	54	53	71	70	86
Computer sciences	6	7	8	6	4	3	6	4	5	7
Earth, atmospheric, and ocean sciences	5	6	6	8	7	2	4	6	2	7
Mathematics	4	10	12	3	3	6	6	8	12	11
Physical sciences	19	24	17	19	29	32	20	19	20	33
Astronomy	0	3	0	1	1	4	1	1	4	1
Chemistry	9	14	10	14	13	22	17	5	10	26
Physics	10	7	7	4	15	6	2	13	6	6
Psychology	81	56	75	109	69	67	79	64	94	83
Social sciences	44	41	55	50	41	43	55	65	48	60
Engineering	39	41	55	37	23	44	46	57	32	33
Aeronautical/astronautical engineering	0	3	1	0	3	3	1	1	1	2
Chemical engineering	7	2	6	3	4	3	5	7	6	4
Civil engineering	1	3	9	6	2	5	6	7	4	7
Electrical engineering	14	14	18	14	9	5	17	14	4	6
Industrial engineering	3	2	1	0	0	1	2	3	0	0
Materials/metallurgical engineering	3	5	3	3	1	5	4	4	3	5
Mechanical engineering	4	5	11	5	2	12	4	8	6	5
Other engineering	7	7	6	6	2	10	7	13	8	4

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	173	204	191	203	194	185	219	259	200	207
Education	75	86	92	96	87	64	90	121	78	92
Health	18	12	15	14	13	11	13	21	18	15
Humanities	61	87	65	80	75	88	94	102	80	70
Professional/other/unknown	19	19	19	13	19	22	22	15	24	30
White, all fields	23,846	23,181	23,494	23,098	22,970	21,869	20,757	20,872	20,762	20,845
Science and engineering	13,448	13,293	13,473	13,196	12,921	12,225	11,486	11,612	11,630	11,848
Science	11,322	11,142	11,435	11,205	11,156	10,575	10,091	10,155	10,168	10,327
Agricultural sciences	463	452	439	442	433	417	407	452	457	473
Biological sciences	3,050	3,068	3,144	3,017	3,195	3,143	3,028	2,978	3,104	3,248
Computer sciences	342	341	385	336	311	300	267	294	308	305
Earth, atmospheric, and ocean sciences	398	436	429	365	398	345	361	369	364	374
Mathematics	440	449	494	474	437	396	353	379	376	387
Physical sciences	1,814	1,780	1,824	1,740	1,594	1,547	1,464	1,481	1,410	1,442
Astronomy	127	129	113	104	111	100	85	99	92	100
Chemistry	1,027	1,040	1,096	1,054	952	937	951	974	894	925
Physics	660	611	615	582	531	510	428	408	424	417
Psychology	2,700	2,481	2,598	2,667	2,569	2,372	2,188	2,222	2,105	2,243
Social sciences	2,115	2,135	2,122	2,164	2,219	2,055	2,023	1,980	2,044	1,855
Engineering	2,126	2,151	2,038	1,991	1,765	1,650	1,395	1,457	1,462	1,521
Aeronautical/astronautical engineering	146	133	118	92	103	75	70	56	56	71
Chemical engineering	261	269	262	279	268	263	214	203	212	223
Civil engineering	184	206	197	219	181	176	170	203	150	174
Electrical engineering	542	529	485	472	398	337	278	264	290	332
Industrial engineering	86	78	67	74	56	49	53	43	51	46
Materials/metallurgical engineering	206	226	217	177	180	158	121	143	150	145
Mechanical engineering	369	361	348	323	262	292	213	228	196	228
Other engineering	332	349	344	355	317	300	276	317	357	302
Non-science and engineering	10,398	9,888	10,021	9,902	10,049	9,644	9,271	9,260	9,132	8,997
Education	4,879	4,413	4,356	4,438	4,329	4,158	4,007	4,103	3,978	3,928
Health	805	813	907	816	940	885	944	934	938	929
Humanities	3,329	3,367	3,465	3,469	3,583	3,472	3,264	3,229	3,166	3,020
Professional/other/unknown	1,385	1,295	1,293	1,179	1,197	1,129	1,056	994	1,050	1,120
Other/unknown, all fields[c]	418	1,108	971	561	669	814	829	1,133	1,065	853
Science and engineering	255	636	570	334	409	489	466	669	652	522
Science	216	520	471	269	343	411	385	598	559	452
Agricultural sciences	9	23	14	11	13	11	9	19	24	11
Biological sciences	53	107	107	71	109	116	110	170	154	123
Computer sciences	15	27	25	12	12	14	8	22	18	23
Earth, atmospheric, and ocean sciences	6	21	18	12	15	15	16	19	25	11
Mathematics	9	24	21	13	8	11	13	23	22	16
Physical sciences	48	73	79	42	44	65	56	98	94	66
Astronomy	4	10	9	1	5	5	4	14	8	8
Chemistry	18	39	41	22	26	35	30	60	51	32
Physics	26	24	29	19	13	25	22	24	35	26
Psychology	26	133	115	37	56	91	73	113	104	106
Social sciences	50	112	92	71	86	88	100	134	118	96
Engineering	39	116	99	65	66	78	81	71	93	70
Aeronautical/astronautical engineering	0	7	8	1	2	4	2	2	4	6
Chemical engineering	4	13	14	6	6	11	12	10	14	12
Civil engineering	1	9	11	4	8	16	9	8	4	7
Electrical engineering	11	41	15	20	18	14	21	19	25	16
Industrial engineering	2	2	3	1	2	4	4	3	4	2
Materials/metallurgical engineering	7	7	13	7	7	7	6	6	7	3

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	4	16	17	14	10	11	15	13	14	8
Other engineering	10	21	18	12	13	11	12	10	21	16
Non-science and engineering	163	472	401	227	260	325	363	464	413	331
Education	68	242	163	90	103	113	157	193	154	115
Health	14	18	33	15	20	24	25	47	44	34
Humanities	60	159	155	98	113	148	140	179	155	137
Professional/other/unknown	21	53	50	24	24	40	41	45	60	45

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	14,721	15,044	14,918	14,518	14,157	13,630	12,845	13,085	12,993	12,791
Science and engineering	9,582	9,883	9,770	9,444	9,081	8,704	8,144	8,313	8,337	8,286
Science	7,404	7,559	7,577	7,384	7,279	6,963	6,618	6,775	6,805	6,684
Agricultural sciences	363	377	334	338	324	292	291	346	325	319
Biological sciences	1,962	2,031	2,087	2,010	2,096	2,120	2,064	2,029	2,086	2,116
Computer sciences	345	347	375	330	316	284	278	310	309	316
Earth, atmospheric, and ocean sciences	320	356	339	303	309	254	246	276	252	267
Mathematics	385	387	409	374	373	333	289	340	324	360
Physical sciences	1,604	1,646	1,625	1,559	1,395	1,389	1,282	1,306	1,287	1,252
Astronomy	106	126	109	87	95	93	80	97	81	86
Chemistry	837	881	897	894	744	766	753	805	766	719
Physics	661	639	619	578	556	530	449	404	440	447
Psychology	1,022	987	1,027	1,043	1,021	949	888	869	878	883
Social sciences	1,403	1,428	1,381	1,427	1,445	1,342	1,280	1,299	1,344	1,171
Engineering	2,178	2,324	2,193	2,060	1,802	1,741	1,526	1,538	1,532	1,602
Aeronautical/astronautical engineering	150	143	128	93	103	77	72	61	61	82
Chemical engineering	235	260	263	268	248	251	228	204	221	227
Civil engineering	175	204	196	207	179	164	162	176	134	147
Electrical engineering	625	679	573	577	464	425	377	364	368	410
Industrial engineering	76	77	62	58	50	51	43	38	45	45
Materials/metallurgical engineering	198	213	228	176	174	155	122	141	160	133
Mechanical engineering	391	409	393	347	294	352	252	257	228	256
Other engineering	328	339	350	334	290	266	270	297	315	302
Non-science and engineering	5,139	5,161	5,148	5,074	5,076	4,926	4,701	4,772	4,656	4,505
Education	2,154	1,974	1,983	1,948	1,883	1,837	1,762	1,812	1,765	1,650
Health	248	254	274	285	308	302	312	326	323	338
Humanities	1,855	2,065	2,078	2,066	2,118	2,049	1,983	1,985	1,899	1,843
Professional/other/unknown	882	868	813	775	767	738	644	649	669	674
American Indian/Alaska Native, all fields	101	79	104	96	76	66	66	52	56	56
Science and engineering	60	45	54	59	43	39	34	34	32	34
Science	48	31	45	49	39	35	28	25	29	27
Agricultural sciences	3	5	7	1	4	0	2	3	2	1
Biological sciences	11	4	6	10	10	8	6	3	10	6
Computer sciences	2	0	4	0	1	0	1	2	2	1
Earth, atmospheric, and ocean sciences	1	2	2	3	3	0	0	1	4	1
Mathematics	1	1	1	1	1	0	2	1	0	0
Physical sciences	5	9	8	6	7	10	7	1	4	4
Astronomy	0	1	1	0	0	1	0	0	0	0
Chemistry	3	6	6	3	6	9	5	1	4	2
Physics	2	2	1	3	1	0	2	0	0	2
Psychology	8	6	13	12	3	5	7	8	3	6
Social sciences	17	4	4	16	10	12	3	6	4	8
Engineering	12	14	9	10	4	4	6	9	3	7
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	1	3	0	1	0	1	1	0	1	0
Civil engineering	1	1	0	1	0	0	0	1	2	0
Electrical engineering	1	5	3	1	0	1	0	5	0	2
Industrial engineering	3	0	0	0	0	0	1	0	0	0
Materials/metallurgical engineering	2	0	2	2	0	1	1	0	0	0
Mechanical engineering	3	5	2	2	2	1	1	0	0	3
Other engineering	1	0	2	3	2	0	2	3	0	1
Non-science and engineering	41	34	50	37	33	27	32	18	24	22
Education	22	18	26	19	17	12	16	8	14	8
Health	1	2	1	0	1	2	0	1	0	2
Humanities	10	8	14	11	11	9	12	7	7	9

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Professional/other/unknown	8	6	9	7	4	4	4	2	3	3
Asian, all fields[a]	603	741	661	766	740	760	746	744	728	761
Science and engineering	505	632	541	629	598	617	625	606	594	622
Science	285	388	346	407	414	410	427	441	417	435
Agricultural sciences	7	16	5	11	11	4	7	5	5	6
Biological sciences	108	132	139	166	172	193	197	211	190	204
Computer sciences	28	31	30	34	33	25	37	38	33	37
Earth, atmospheric, and ocean sciences	4	7	5	10	4	9	1	5	4	7
Mathematics	15	27	13	23	34	23	15	21	20	28
Physical sciences	72	105	86	82	64	82	87	70	89	96
Astronomy	3	6	5	2	6	6	8	5	4	5
Chemistry	32	50	51	53	22	38	48	39	57	49
Physics	37	49	30	27	36	38	31	26	28	42
Psychology	20	21	23	31	39	20	36	36	24	21
Social sciences	31	49	45	50	57	54	47	55	52	36
Engineering	220	244	195	222	184	207	198	165	177	187
Aeronautical/astronautical engineering	10	8	8	8	5	7	5	5	6	7
Chemical engineering	17	14	27	23	29	24	37	28	33	23
Civil engineering	11	10	13	19	12	11	11	8	8	9
Electrical engineering	95	112	69	80	65	72	69	64	54	70
Industrial engineering	7	11	0	2	4	10	3	4	2	3
Materials/metallurgical engineering	18	19	12	21	16	18	17	13	18	8
Mechanical engineering	36	42	30	37	30	43	24	20	32	29
Other engineering	26	28	36	32	23	22	32	23	24	38
Non-science and engineering	98	109	120	137	142	143	121	138	134	139
Education	29	25	36	43	42	30	32	31	28	35
Health	16	15	14	16	18	21	10	28	21	25
Humanities	26	41	39	41	44	50	54	47	59	49
Professional/other/unknown	27	28	31	37	38	42	25	32	26	30
Black/African American, all fields	531	528	524	609	561	591	612	597	645	593
Science and engineering	251	261	238	294	270	274	280	254	285	270
Science	211	200	186	232	220	217	230	201	234	208
Agricultural sciences	15	10	8	12	4	4	4	11	7	4
Biological sciences	46	44	34	47	40	44	51	38	52	50
Computer sciences	9	3	4	8	8	3	10	12	10	7
Earth, atmospheric, and ocean sciences	0	2	4	4	2	3	4	5	5	5
Mathematics	6	4	5	4	7	10	5	10	6	9
Physical sciences	33	35	25	30	34	27	35	31	28	31
Astronomy	0	1	1	0	0	1	0	1	0	2
Chemistry	24	23	17	27	20	18	19	23	22	20
Physics	9	11	7	3	14	8	16	7	6	9
Psychology	38	37	38	36	42	48	39	39	48	38
Social sciences	64	65	68	91	83	78	82	55	78	64
Engineering	40	61	52	62	50	57	50	53	51	62
Aeronautical/astronautical engineering	3	3	1	0	3	0	2	1	1	2
Chemical engineering	5	6	2	5	3	6	5	6	2	5
Civil engineering	5	9	5	3	4	7	6	4	2	2
Electrical engineering	12	24	18	21	17	19	11	17	22	22
Industrial engineering	1	3	0	4	4	3	3	0	2	6
Materials/metallurgical engineering	2	2	6	3	3	1	3	2	2	4
Mechanical engineering	6	9	12	9	12	16	12	8	12	8
Other engineering	6	5	8	17	4	5	8	15	8	13
Non-science and engineering	280	267	286	315	291	317	332	343	360	323
Education	184	155	176	185	176	197	200	224	226	182
Health	10	12	11	8	11	9	12	15	23	25

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	47	55	62	61	61	61	67	54	62	75
Professional/other/unknown	39	45	37	61	43	50	53	50	49	41
Hispanic, all fields[b]	480	544	613	510	546	497	538	595	542	548
Science and engineering	297	339	384	316	337	286	311	334	319	355
Science	224	278	297	267	278	231	246	261	263	303
Agricultural sciences	6	12	16	7	13	10	12	11	4	8
Biological sciences	58	75	80	85	73	77	62	89	77	103
Computer sciences	7	13	12	9	9	3	11	5	9	6
Earth, atmospheric, and ocean sciences	9	10	11	14	13	3	11	6	5	8
Mathematics	9	12	18	9	7	9	8	10	17	17
Physical sciences	42	46	39	35	49	41	36	42	35	40
Astronomy	1	2	2	1	1	6	2	2	4	1
Chemistry	26	26	25	21	29	24	19	23	20	25
Physics	15	18	12	13	19	11	15	17	11	14
Psychology	51	60	54	54	58	41	53	48	54	59
Social sciences	42	50	67	54	56	47	53	50	62	62
Engineering	73	61	87	49	59	55	65	73	56	52
Aeronautical/astronautical engineering	1	4	4	0	3	5	2	4	3	5
Chemical engineering	10	4	10	2	10	1	9	11	6	12
Civil engineering	2	9	12	5	7	6	8	7	13	8
Electrical engineering	23	17	25	24	19	13	25	18	10	10
Industrial engineering	5	2	5	1	0	0	2	3	1	1
Materials/metallurgical engineering	6	6	5	5	4	4	5	7	6	3
Mechanical engineering	11	10	18	7	9	17	5	11	7	7
Other engineering	15	9	8	5	7	9	9	12	10	6
Non-science and engineering	183	205	229	194	209	211	227	261	223	193
Education	83	85	109	89	97	88	98	115	94	77
Health	11	7	12	11	10	4	8	9	9	13
Humanities	65	90	83	75	82	86	100	115	92	72
Professional/other/unknown	24	23	25	19	20	33	21	22	28	31
Mexican American, all fields	159	155	211	153	196	188	171	202	213	226
Science and engineering	89	87	130	83	120	96	80	103	109	129
Science	66	76	105	76	97	83	70	92	92	113
Agricultural sciences	1	2	6	3	4	3	3	6	2	3
Biological sciences	16	20	29	23	25	30	21	32	28	43
Computer sciences	1	2	3	0	2	2	3	1	3	1
Earth, atmospheric, and ocean sciences	3	2	4	4	3	1	4	0	2	2
Mathematics	2	2	3	5	4	3	1	2	6	5
Physical sciences	17	12	18	10	19	13	9	15	11	15
Astronomy	1	0	1	0	0	3	0	1	1	1
Chemistry	12	7	12	5	14	4	4	10	6	7
Physics	4	5	5	5	5	6	5	4	4	7
Psychology	18	20	18	14	22	17	14	16	14	25
Social sciences	8	16	24	17	18	14	15	20	26	19
Engineering	23	11	25	7	23	13	10	11	17	16
Aeronautical/astronautical engineering	1	1	3	0	0	1	1	1	2	3
Chemical engineering	3	2	1	0	3	0	1	2	2	5
Civil engineering	0	1	4	1	4	0	1	0	4	1
Electrical engineering	8	2	6	2	4	6	4	2	3	2
Industrial engineering	1	0	3	1	0	0	0	0	0	0
Materials/metallurgical engineering	1	2	2	1	1	1	0	4	3	1
Mechanical engineering	4	2	3	1	6	4	1	2	0	3
Other engineering	5	1	3	1	5	1	2	0	3	1
Non-science and engineering	70	68	81	70	76	92	91	99	104	97
Education	37	41	45	35	45	50	49	56	56	46

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	2	0	1	3	2	1	3	2	3	7
Humanities	21	21	30	27	22	28	32	34	37	32
Professional/other/unknown	10	6	5	5	7	13	7	7	8	12
Puerto Rican, all fields	114	154	128	140	128	122	148	126	107	99
Science and engineering	74	99	69	87	77	68	92	75	65	68
Science	57	80	53	72	61	59	77	58	48	57
Agricultural sciences	3	3	2	0	3	2	6	0	0	0
Biological sciences	14	21	20	23	11	18	18	21	21	19
Computer sciences	4	6	1	5	4	1	4	2	2	0
Earth, atmospheric, and ocean sciences	3	4	2	4	5	1	3	4	2	3
Mathematics	3	3	4	2	1	2	3	1	1	4
Physical sciences	8	18	6	13	10	10	16	11	7	7
Astronomy	0	0	1	0	0	0	1	0	0	0
Chemistry	6	11	4	9	9	8	7	9	6	6
Physics	2	7	1	4	1	2	8	2	1	1
Psychology	15	20	12	16	14	9	14	10	4	13
Social sciences	7	5	6	9	13	16	13	9	11	11
Engineering	17	19	16	15	16	9	15	17	17	11
Aeronautical/astronautical engineering	0	0	1	0	0	1	0	2	0	0
Chemical engineering	2	1	3	1	3	0	3	4	0	3
Civil engineering	1	5	1	1	2	2	1	3	7	2
Electrical engineering	4	3	3	9	6	2	6	4	3	2
Industrial engineering	1	1	2	0	0	0	1	0	1	1
Materials/metallurgical engineering	2	0	1	2	2	1	2	0	0	1
Mechanical engineering	3	6	5	2	2	1	1	1	3	1
Other engineering	4	3	0	0	1	2	1	3	3	1
Non-science and engineering	40	55	59	53	51	54	56	51	42	31
Education	17	21	28	24	24	26	26	17	17	12
Health	2	3	3	5	3	2	2	0	2	0
Humanities	16	26	20	14	19	18	25	29	17	12
Professional/other/unknown	5	5	8	10	5	8	3	5	6	7
Other Hispanic, all fields	207	235	274	217	222	187	219	267	222	223
Science and engineering	134	153	185	146	140	122	139	156	145	158
Science	101	122	139	119	120	89	99	111	123	133
Agricultural sciences	2	7	8	4	6	5	3	5	2	5
Biological sciences	28	34	31	39	37	29	23	36	28	41
Computer sciences	2	5	8	4	3	0	4	2	4	5
Earth, atmospheric, and ocean sciences	3	4	5	6	5	1	4	2	1	3
Mathematics	4	7	11	2	2	4	4	7	10	8
Physical sciences	17	16	15	12	20	18	11	16	17	18
Astronomy	0	2	0	1	1	3	1	1	3	0
Chemistry	8	8	9	7	6	12	8	4	8	12
Physics	9	6	6	4	13	3	2	11	6	6
Psychology	18	20	24	24	22	15	25	22	36	21
Social sciences	27	29	37	28	25	17	25	21	25	32
Engineering	33	31	46	27	20	33	40	45	22	25
Aeronautical/astronautical engineering	0	3	0	0	3	3	1	1	1	2
Chemical engineering	5	1	6	1	4	1	5	5	4	4
Civil engineering	1	3	7	3	1	4	6	4	2	5
Electrical engineering	11	12	16	13	9	5	15	12	4	6
Industrial engineering	3	1	0	0	0	0	1	3	0	0
Materials/metallurgical engineering	3	4	2	2	1	2	3	3	3	1
Mechanical engineering	4	2	10	4	1	12	3	8	4	3
Other engineering	6	5	5	4	1	6	6	9	4	4

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	73	82	89	71	82	65	80	111	77	65
Education	29	23	36	30	28	12	23	42	21	19
Health	7	4	8	3	5	1	3	7	4	6
Humanities	28	43	33	34	41	40	43	52	38	28
Professional/other/unknown	9	12	12	4	8	12	11	10	14	12
White, all fields	12,744	12,530	12,443	12,202	11,854	11,268	10,446	10,489	10,448	10,413
Science and engineering	8,290	8,211	8,181	7,920	7,574	7,187	6,614	6,674	6,705	6,715
Science	6,489	6,372	6,422	6,262	6,128	5,834	5,476	5,494	5,539	5,466
Agricultural sciences	325	320	290	299	281	268	259	303	290	294
Biological sciences	1,707	1,716	1,758	1,663	1,733	1,726	1,683	1,579	1,677	1,686
Computer sciences	286	278	307	269	254	243	213	235	240	247
Earth, atmospheric, and ocean sciences	301	321	302	264	278	226	225	248	221	240
Mathematics	347	325	356	326	318	285	251	280	261	294
Physical sciences	1,411	1,393	1,399	1,371	1,204	1,178	1,070	1,088	1,052	1,031
Astronomy	98	107	91	83	85	75	67	77	67	72
Chemistry	737	748	766	773	644	653	639	677	623	602
Physics	576	538	542	515	475	450	364	334	362	357
Psychology	896	824	866	899	863	805	729	701	720	724
Social sciences	1,216	1,195	1,144	1,171	1,197	1,103	1,046	1,060	1,078	950
Engineering	1,801	1,839	1,759	1,658	1,446	1,353	1,138	1,180	1,166	1,249
Aeronautical/astronautical engineering	136	121	107	84	90	62	62	50	49	63
Chemical engineering	198	221	212	233	202	208	166	153	167	179
Civil engineering	155	168	156	175	149	128	132	148	106	124
Electrical engineering	483	483	443	433	347	307	251	244	258	297
Industrial engineering	59	59	54	50	40	34	32	29	36	34
Materials/metallurgical engineering	165	179	191	138	145	125	92	115	128	117
Mechanical engineering	332	329	316	279	231	266	195	206	165	202
Other engineering	273	279	280	266	242	223	208	235	257	233
Non-science and engineering	4,454	4,319	4,262	4,282	4,280	4,081	3,832	3,815	3,743	3,698
Education	1,803	1,600	1,571	1,578	1,518	1,472	1,358	1,365	1,354	1,307
Health	207	214	224	245	261	260	273	256	255	263
Humanities	1,675	1,776	1,787	1,827	1,851	1,763	1,676	1,674	1,608	1,581
Professional/other/unknown	769	729	680	632	650	586	525	520	526	547
Other/unknown, all fields[c]	262	622	573	335	380	448	437	608	574	420
Science and engineering	179	395	372	226	259	301	280	411	402	290
Science	147	290	281	167	200	236	211	353	323	245
Agricultural sciences	7	14	8	8	11	6	7	13	17	6
Biological sciences	32	60	70	39	68	72	65	109	80	67
Computer sciences	13	22	18	10	11	10	6	18	15	18
Earth, atmospheric, and ocean sciences	5	14	15	8	9	13	5	11	13	6
Mathematics	7	18	16	11	6	6	8	18	20	12
Physical sciences	41	58	68	35	37	51	47	74	79	50
Astronomy	4	9	9	1	3	4	3	12	6	6
Chemistry	15	28	32	17	23	24	23	42	40	21
Physics	22	21	27	17	11	23	21	20	33	23
Psychology	9	39	33	11	16	30	24	37	29	35
Social sciences	33	65	53	45	42	48	49	73	70	51
Engineering	32	105	91	59	59	65	69	58	79	45
Aeronautical/astronautical engineering	0	7	8	1	2	3	1	1	2	4
Chemical engineering	4	12	12	4	4	11	10	6	12	8
Civil engineering	1	7	10	4	7	12	5	8	3	4
Electrical engineering	11	38	15	18	16	13	21	16	24	9
Industrial engineering	1	2	3	1	2	4	2	2	4	1
Materials/metallurgical engineering	5	7	12	7	6	6	4	4	6	1
Mechanical engineering	3	14	15	13	10	9	15	12	12	7
Other engineering	7	18	16	11	12	7	11	9	16	11

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	83	227	201	109	121	147	157	197	172	130
Education	33	91	65	34	33	38	58	69	49	41
Health	3	4	12	5	7	6	9	17	15	10
Humanities	32	95	93	51	69	80	74	88	71	57
Professional/other/unknown	15	37	31	19	12	23	16	23	37	22

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields	13,056	13,075	13,603	13,474	13,826	13,345	13,152	13,414	13,473	13,519
Science and engineering	6,057	6,216	6,521	6,471	6,625	6,345	6,196	6,322	6,404	6,624
Science	5,639	5,802	6,146	6,044	6,204	5,933	5,829	5,948	5,991	6,228
Agricultural sciences	154	154	172	168	174	177	168	175	206	208
Biological sciences	1,585	1,637	1,686	1,649	1,808	1,789	1,734	1,767	1,877	2,024
Computer sciences	77	82	104	91	73	85	78	79	88	89
Earth, atmospheric, and ocean sciences	106	131	138	120	135	128	151	143	163	154
Mathematics	105	143	172	165	145	138	123	131	132	120
Physical sciences	465	468	509	465	476	465	480	494	453	516
Astronomy	31	25	23	24	32	27	21	28	32	34
Chemistry	333	351	397	362	375	365	382	367	346	412
Physics	101	92	89	79	69	73	77	99	75	70
Psychology	2,107	2,044	2,156	2,180	2,133	1,953	1,834	1,917	1,845	1,928
Social sciences	1,040	1,143	1,209	1,206	1,260	1,198	1,261	1,242	1,227	1,189
Engineering	418	414	375	427	421	412	367	374	413	396
Aeronautical/astronautical engineering	16	12	12	10	14	17	10	9	10	11
Chemical engineering	83	61	64	65	92	82	73	68	71	67
Civil engineering	37	45	50	54	42	59	49	63	56	64
Electrical engineering	83	74	66	62	69	44	45	46	53	55
Industrial engineering	31	25	22	28	17	23	28	17	18	14
Materials/metallurgical engineering	47	58	37	49	47	47	42	35	32	44
Mechanical engineering	45	46	42	52	47	34	34	31	42	36
Other engineering	76	93	82	107	93	106	86	105	131	105
Non-science and engineering	6,999	6,859	7,082	7,003	7,201	7,000	6,956	7,092	7,069	6,895
Education	3,725	3,597	3,594	3,690	3,675	3,497	3,530	3,702	3,568	3,486
Health	685	704	799	687	811	761	813	838	869	868
Humanities	1,873	1,878	1,952	1,944	2,043	2,064	1,930	1,915	1,913	1,800
Professional/other/unknown	716	680	737	682	672	678	683	637	719	741
American Indian/Alaska Native, all fields	84	88	85	118	93	82	80	82	73	83
Science and engineering	34	34	42	55	45	32	32	38	27	32
Science	32	31	38	53	41	30	32	36	25	31
Agricultural sciences	4	0	2	0	1	0	0	1	2	2
Biological sciences	9	3	6	10	7	7	6	8	4	6
Computer sciences	2	1	0	1	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	1	1	3	1	0	0	1	0	3
Mathematics	0	0	2	0	1	1	1	1	0	0
Physical sciences	1	0	1	3	2	2	0	1	1	0
Astronomy	0	0	0	1	1	0	0	0	0	0
Chemistry	1	0	1	2	1	2	0	1	0	0
Physics	0	0	0	0	0	0	0	0	1	0
Psychology	9	12	18	23	19	12	8	14	9	9
Social sciences	7	14	8	13	10	8	17	10	9	11
Engineering	2	3	4	2	4	2	0	2	2	1
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	0
Chemical engineering	0	1	3	1	1	0	0	1	1	0
Civil engineering	1	1	0	1	1	0	0	0	1	0
Electrical engineering	1	0	0	0	0	0	0	0	0	0
Industrial engineering	0	0	0	0	0	0	0	0	0	0
Materials engineering	0	0	0	0	0	0	0	0	0	0
Mechanical engineering	0	1	0	0	1	0	0	0	0	1
Other engineering	0	0	1	0	1	2	0	1	0	0
Non-science and engineering	50	54	43	63	48	50	48	44	46	51
Education	38	33	24	39	34	30	30	31	33	35
Health	3	4	3	6	3	4	3	1	3	2
Humanities	8	11	7	10	9	12	8	8	5	11

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Professional/other/unknown	1	6	9	8	2	4	7	4	5	3
Asian, all fields[a]	463	553	523	539	625	651	618	628	723	731
Science and engineering	316	366	356	358	394	436	410	402	472	491
Science	265	320	305	317	337	380	361	356	421	436
Agricultural sciences	6	6	4	11	4	7	6	4	8	7
Biological sciences	125	123	119	122	146	168	176	168	190	204
Computer sciences	9	11	10	9	8	11	13	7	9	15
Earth, atmospheric, and ocean sciences	3	3	1	4	4	3	4	3	2	4
Mathematics	8	6	13	6	10	9	4	17	9	10
Physical sciences	33	44	36	41	37	41	31	40	37	44
Astronomy	2	0	1	0	2	0	0	3	3	2
Chemistry	23	30	25	35	27	35	25	24	28	36
Physics	8	14	10	6	8	6	6	13	6	6
Psychology	55	80	70	79	82	80	69	68	110	89
Social sciences	26	47	52	45	46	61	58	49	56	63
Engineering	51	46	51	41	57	56	49	46	51	55
Aeronautical/astronautical engineering	4	0	0	1	0	3	1	2	1	0
Chemical engineering	10	3	9	9	15	13	11	8	13	10
Civil engineering	6	3	3	1	6	5	3	2	4	4
Electrical engineering	14	16	18	12	14	10	11	16	9	7
Industrial engineering	1	0	1	0	1	2	1	0	2	0
Materials/metallurgical engineering	4	6	4	6	7	5	7	2	5	7
Mechanical engineering	4	8	7	5	9	5	7	6	5	3
Other engineering	8	10	9	7	5	13	8	10	12	24
Non-science and engineering	147	187	167	181	231	215	208	226	251	240
Education	58	75	62	59	83	74	66	77	85	77
Health	21	27	18	29	37	45	45	41	42	59
Humanities	52	63	64	71	80	70	78	83	83	82
Professional/other/unknown	16	22	23	22	31	26	19	25	41	22
Black/African American, all fields	774	808	961	1,021	1,070	1,020	1,053	1,111	1,236	1,095
Science and engineering	236	269	336	344	376	356	356	361	404	370
Science	217	247	315	321	352	331	330	343	371	347
Agricultural sciences	1	5	2	7	8	5	5	7	11	9
Biological sciences	36	57	67	62	70	81	63	62	84	92
Computer sciences	3	1	8	9	5	10	7	5	5	8
Earth, atmospheric, and ocean sciences	1	1	1	4	1	2	0	6	1	1
Mathematics	2	2	7	6	7	7	8	4	2	7
Physical sciences	12	10	26	24	18	19	27	17	21	16
Astronomy	0	1	0	2	1	0	1	0	0	0
Chemistry	10	8	23	19	16	18	22	12	18	15
Physics	2	1	3	3	1	1	4	5	3	1
Psychology	106	105	114	132	142	119	123	124	156	121
Social sciences	56	66	90	77	101	88	97	118	91	93
Engineering	19	22	21	23	24	25	26	18	33	23
Aeronautical/astronautical engineering	2	0	0	1	1	0	0	0	0	0
Chemical engineering	5	6	1	4	5	10	5	2	7	6
Civil engineering	1	0	2	2	1	0	4	2	3	5
Electrical engineering	5	3	4	5	2	1	4	4	9	6
Industrial engineering	1	4	6	3	0	3	1	2	1	1
Materials/metallurgical engineering	0	1	3	2	1	4	2	1	3	0
Mechanical engineering	3	1	0	1	5	1	4	1	2	0
Other engineering	2	7	5	5	9	6	6	6	8	5
Non-science and engineering	538	539	625	677	694	664	697	750	832	725
Education	396	372	452	476	500	453	477	519	555	479
Health	32	39	49	43	56	51	56	59	78	89

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Humanities	58	71	69	89	84	97	86	88	95	83
Professional/other/unknown	52	57	55	69	54	63	78	84	104	74
Hispanic, all fields[b]	477	520	595	674	635	625	699	685	636	746
Science and engineering	237	236	303	330	313	295	341	325	326	367
Science	223	215	290	308	303	276	318	307	309	346
Agricultural sciences	3	3	9	4	7	11	8	8	11	6
Biological sciences	51	57	71	69	82	72	99	69	98	104
Computer sciences	5	2	1	3	2	3	2	4	3	3
Earth, atmospheric, and ocean sciences	4	5	5	4	3	2	0	4	5	7
Mathematics	0	5	7	3	6	5	3	5	4	6
Physical sciences	9	12	10	21	22	20	19	19	21	29
Astronomy	0	1	0	0	0	1	1	1	2	2
Chemistry	6	10	9	20	20	15	16	15	18	27
Physics	3	1	1	1	2	4	2	3	1	0
Psychology	116	101	144	152	144	114	126	114	110	119
Social sciences	35	30	43	52	37	49	61	84	57	72
Engineering	14	21	13	22	10	19	23	18	17	21
Aeronautical/astronautical engineering	0	0	1	0	0	0	0	0	0	1
Chemical engineering	5	2	0	3	3	4	7	3	3	3
Civil engineering	0	1	3	6	1	2	0	4	3	2
Electrical engineering	4	6	2	4	0	2	3	3	2	1
Industrial engineering	1	2	2	1	0	3	3	0	0	0
Materials/metallurgical engineering	0	4	3	2	3	4	2	2	1	7
Mechanical engineering	0	3	1	1	1	0	5	1	2	5
Other engineering	4	3	1	5	2	4	3	5	6	2
Non-science and engineering	240	284	292	344	322	330	358	360	310	379
Education	122	162	175	200	178	179	209	213	166	200
Health	20	22	25	28	23	18	22	29	34	28
Humanities	73	83	73	85	94	108	104	90	88	105
Professional/other/unknown	25	17	19	31	27	25	23	28	22	46
Mexican American, all fields	123	142	199	186	204	191	229	256	218	271
Science and engineering	53	67	84	72	86	74	103	106	108	108
Science	50	60	81	68	83	70	97	102	103	100
Agricultural sciences	1	0	3	0	2	1	4	1	4	0
Biological sciences	12	20	20	16	19	17	31	21	26	25
Computer sciences	0	0	0	0	1	0	0	2	0	1
Earth, atmospheric, and ocean sciences	2	1	1	1	1	1	0	0	1	1
Mathematics	0	1	3	2	4	3	1	2	1	2
Physical sciences	3	2	3	5	3	2	6	10	9	4
Astronomy	0	0	0	0	0	0	1	0	1	1
Chemistry	2	2	3	4	3	2	3	9	7	3
Physics	1	0	0	1	0	0	2	1	1	0
Psychology	20	29	34	26	38	32	36	35	37	33
Social sciences	12	7	17	18	15	14	19	31	25	34
Engineering	3	7	3	4	3	4	6	4	5	8
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	0
Chemical engineering	1	1	0	0	1	0	2	1	0	1
Civil engineering	0	1	1	2	0	1	0	0	1	0
Electrical engineering	1	3	0	1	0	2	0	1	1	1
Industrial engineering	0	0	0	0	0	0	0	0	0	0
Materials/metallurgical engineering	0	2	2	0	2	1	1	1	1	2
Mechanical engineering	0	0	0	0	0	0	2	0	0	3
Other engineering	1	0	0	1	0	0	1	1	2	1
Non-science and engineering	70	75	115	114	118	117	126	150	110	163
Education	41	48	71	68	68	66	88	99	70	97

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Health	4	7	14	11	9	5	5	11	6	13
Humanities	18	16	24	22	35	37	28	27	28	39
Professional/other/unknown	7	4	6	13	6	9	5	13	6	14
Puerto Rican, all fields	138	160	180	194	197	174	197	134	152	165
Science and engineering	68	73	104	96	105	81	104	72	75	91
Science	63	69	103	88	101	77	93	70	73	86
Agricultural sciences	1	1	1	1	3	4	3	3	4	5
Biological sciences	18	16	23	23	22	30	38	13	30	34
Computer sciences	1	0	1	1	0	0	0	0	2	0
Earth, atmospheric, and ocean sciences	0	2	3	1	0	0	0	0	3	2
Mathematics	0	1	3	0	1	0	0	2	1	1
Physical sciences	4	2	5	9	10	4	4	6	9	10
Astronomy	0	0	0	0	0	0	0	1	0	0
Chemistry	3	2	5	9	10	3	4	5	9	10
Physics	1	0	0	0	0	1	0	0	0	0
Psychology	33	36	59	41	59	30	36	37	15	24
Social sciences	6	11	8	12	6	9	12	9	9	10
Engineering	5	4	1	8	4	4	11	2	2	5
Aeronautical/astronautical engineering	0	0	0	0	0	0	0	0	0	1
Chemical engineering	2	0	0	1	2	2	5	0	1	2
Civil engineering	0	0	0	1	0	0	0	1	0	0
Electrical engineering	0	1	0	2	0	0	1	0	1	0
Industrial engineering	1	1	1	1	0	2	2	0	0	0
Materials/metallurgical engineering	0	1	0	1	1	0	0	0	0	1
Mechanical engineering	0	0	0	0	0	0	2	1	0	0
Other engineering	2	1	0	2	1	0	1	0	0	1
Non-science and engineering	70	87	76	98	92	93	93	62	77	74
Education	35	51	49	66	51	61	54	35	39	30
Health	5	7	4	6	6	3	7	4	14	6
Humanities	22	23	17	17	25	23	25	13	18	24
Professional/other/unknown	8	6	6	9	10	6	7	10	6	14
Other Hispanic, all fields	216	218	216	294	234	260	273	295	266	310
Science and engineering	116	96	115	162	122	140	134	147	143	168
Science	110	86	106	152	119	129	128	135	133	160
Agricultural sciences	1	2	5	3	2	6	1	4	3	1
Biological sciences	21	21	28	30	41	25	30	35	42	45
Computer sciences	4	2	0	2	1	3	2	2	1	2
Earth, atmospheric, and ocean sciences	2	2	1	2	2	1	0	4	1	4
Mathematics	0	3	1	1	1	2	2	1	2	3
Physical sciences	2	8	2	7	9	14	9	3	3	15
Astronomy	0	1	0	0	0	1	0	0	1	1
Chemistry	1	6	1	7	7	10	9	1	2	14
Physics	1	1	1	0	2	3	0	2	0	0
Psychology	63	36	51	85	47	52	54	42	58	62
Social sciences	17	12	18	22	16	26	30	44	23	28
Engineering	6	10	9	10	3	11	6	12	10	8
Aeronautical/astronautical engineering	0	0	1	0	0	0	0	0	0	0
Chemical engineering	2	1	0	2	0	2	0	2	2	0
Civil engineering	0	0	2	3	1	1	0	3	2	2
Electrical engineering	3	2	2	1	0	0	2	2	0	0
Industrial engineering	0	1	1	0	0	1	1	0	0	0
Materials/metallurgical engineering	0	1	1	1	0	3	1	1	0	4
Mechanical engineering	0	3	1	1	1	0	1	0	2	2
Other engineering	1	2	1	2	1	4	1	4	4	0

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	100	122	101	132	112	120	139	148	123	142
Education	46	63	55	66	59	52	67	79	57	73
Health	11	8	7	11	8	10	10	14	14	9
Humanities	33	44	32	46	34	48	51	50	42	42
Professional/other/unknown	10	7	7	9	11	10	11	5	10	18
White, all fields	11,102	10,649	11,050	10,896	11,116	10,601	10,310	10,383	10,314	10,432
Science and engineering	5,158	5,081	5,292	5,276	5,347	5,038	4,871	4,938	4,925	5,133
Science	4,833	4,769	5,013	4,943	5,028	4,741	4,614	4,661	4,629	4,861
Agricultural sciences	138	132	149	143	152	149	147	149	167	179
Biological sciences	1,343	1,352	1,386	1,354	1,462	1,417	1,345	1,399	1,427	1,562
Computer sciences	56	63	78	67	57	57	54	59	68	58
Earth, atmospheric, and ocean sciences	97	114	127	101	120	119	136	121	143	134
Mathematics	93	124	138	148	119	111	102	99	115	93
Physical sciences	403	387	425	369	390	369	394	393	358	411
Astronomy	29	22	22	21	26	25	18	22	25	28
Chemistry	290	292	330	281	308	284	312	297	271	323
Physics	84	73	73	67	56	60	64	74	62	60
Psychology	1,804	1,657	1,732	1,768	1,706	1,567	1,459	1,521	1,385	1,519
Social sciences	899	940	978	993	1,022	952	977	920	966	905
Engineering	325	312	279	333	319	297	257	277	296	272
Aeronautical/astronautical engineering	10	12	11	8	13	13	8	6	7	8
Chemical engineering	63	48	50	46	66	55	48	50	45	44
Civil engineering	29	38	41	44	32	48	38	55	44	50
Electrical engineering	59	46	42	39	51	30	27	20	32	35
Industrial engineering	27	19	13	24	16	15	21	14	15	12
Materials/metallurgical engineering	41	47	26	39	35	33	29	28	22	28
Mechanical engineering	37	32	32	44	31	26	18	22	31	26
Other engineering	59	70	64	89	75	77	68	82	100	69
Non-science and engineering	5,944	5,568	5,758	5,620	5,769	5,563	5,439	5,445	5,389	5,299
Education	3,076	2,813	2,785	2,860	2,811	2,686	2,649	2,738	2,624	2,621
Health	598	599	683	571	679	625	671	678	683	666
Humanities	1,654	1,591	1,677	1,642	1,732	1,709	1,588	1,555	1,558	1,439
Professional/other/unknown	616	565	613	547	547	543	531	474	524	573
Other/unknown, all fields[c]	156	457	389	226	287	366	392	525	491	432
Science and engineering	76	230	192	108	150	188	186	258	250	231
Science	69	220	185	102	143	175	174	245	236	207
Agricultural sciences	2	8	6	3	2	5	2	6	7	5
Biological sciences	21	45	37	32	41	44	45	61	74	56
Computer sciences	2	4	7	2	1	4	2	4	3	5
Earth, atmospheric, and ocean sciences	1	7	3	4	6	2	11	8	12	5
Mathematics	2	6	5	2	2	5	5	5	2	4
Physical sciences	7	15	11	7	7	14	9	24	15	16
Astronomy	0	1	0	0	2	1	1	2	2	2
Chemistry	3	11	9	5	3	11	7	18	11	11
Physics	4	3	2	2	2	2	1	4	2	3
Psychology	17	89	78	26	40	61	49	76	75	71
Social sciences	17	46	38	26	44	40	51	61	48	45
Engineering	7	10	7	6	7	13	12	13	14	24
Aeronautical/astronautical engineering	0	0	0	0	0	1	1	1	2	2
Chemical engineering	0	1	1	2	2	0	2	4	2	4
Civil engineering	0	2	1	0	1	4	4	0	1	3
Electrical engineering	0	3	0	2	2	1	0	3	1	6
Industrial engineering	1	0	0	0	0	0	2	1	0	1
Materials/metallurgical engineering	2	0	1	0	1	1	2	2	1	2
Mechanical engineering	1	1	2	1	0	2	0	1	2	1
Other engineering	3	3	2	1	1	4	1	1	5	5

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1996–2005

Race/ethnicity and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Non-science and engineering	80	227	197	118	137	178	206	267	241	201
Education	35	142	96	56	69	75	99	124	105	74
Health	11	13	21	10	13	18	16	30	29	24
Humanities	28	59	62	47	44	68	66	91	84	80
Professional/other/unknown	6	13	18	5	11	17	25	22	23	23

[a] Pacific Islanders are included in this category prior to 2001.

[b] Includes Mexican American, Puerto Rican, and other Hispanic.

[c] Native Hawaiian, other Pacific Islanders, and multiple race/ethnicity are included in this category from 2001 forward.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy.

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 visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All non-U.S. citizens	10,911	9,788	9,734	8,892	9,067	9,213	8,861	9,480	10,154	11,516
North America	535	498	571	557	613	597	576	633	680	708
Canada	278	263	286	289	294	306	315	323	380	365
Caribbean	48	49	65	54	54	40	44	44	77	94
Central America	47	38	44	42	57	45	35	49	42	43
Mexico	162	148	176	172	208	206	182	217	181	206
South America	466	414	435	444	447	415	412	458	480	542
Argentina	69	69	71	56	78	69	65	74	89	92
Brazil	209	151	164	164	131	142	126	108	136	156
Chile	37	31	26	33	42	25	40	66	43	42
Colombia	42	40	32	52	56	59	55	81	75	104
South America, other	109	123	142	139	140	120	126	129	137	148
Europe	1,278	1,313	1,524	1,487	1,507	1,646	1,553	1,605	1,656	1,743
Belgium	25	18	17	21	21	23	16	23	17	28
England, United Kingdom	118	92	124	142	100	138	134	109	109	107
France	70	74	76	79	83	85	92	87	92	113
Germany	171	181	210	183	229	220	197	191	185	180
Europe, other	894	948	1,097	1,062	1,074	1,180	1,114	1,195	1,253	1,315
East Asia	5,700	4,810	4,687	4,163	4,299	4,333	4,287	4,540	4,922	5,712
China, People's Republic of	3,033	2,395	2,502	2,233	2,378	2,404	2,401	2,495	2,877	3,448
Hong Kong	110	86	91	54	46	46	42	32	31	41
Japan	169	155	155	158	201	149	157	201	186	211
Korea	991	901	822	760	753	865	856	956	1,056	1,170
Taiwan	1,166	1,093	909	746	676	539	469	440	394	442
Thailand	119	97	122	134	153	236	264	312	272	251
East Asia, other	112	83	86	78	92	94	98	104	106	149
West Asia	2,197	2,044	1,834	1,647	1,594	1,647	1,488	1,662	1,791	2,074
India	1,287	1,281	1,134	915	834	817	681	769	863	1,103
Iran	152	113	93	92	80	100	58	68	60	136
Iraq	9	7	5	5	2	7	3	0	2	0
Israel	84	63	57	47	46	49	50	66	75	73
Lebanon	56	30	38	25	28	28	31	32	33	28
Saudi Arabia	80	70	46	58	56	52	71	65	95	75
Turkey	153	170	172	192	275	307	343	373	344	340
West Asia, other	376	310	289	313	273	287	251	289	319	319
Pacific/Australasia	240	209	205	161	180	158	154	145	174	177
Australia	44	48	46	49	42	45	32	28	46	50
Indonesia	70	67	64	45	63	48	66	47	68	57
Pacific/Australasia, other	126	94	95	67	75	65	56	70	60	70
Africa	449	367	373	338	366	337	295	339	376	406
Egypt	90	77	92	63	83	75	95	109	125	137
Nigeria	40	25	34	35	23	20	13	13	19	22
Africa, other	319	265	247	240	260	242	187	217	232	247
Country unknown	46	133	105	95	61	80	96	98	75	154
Science	7,356	6,640	6,677	6,297	6,266	6,127	5,940	6,304	6,604	7,477
North America	438	413	472	446	495	489	479	517	559	564
Canada	233	219	249	238	244	261	278	289	322	315
Caribbean	40	36	48	41	46	32	35	42	64	76
Central America	40	35	38	37	51	36	31	37	34	31
Mexico	125	123	137	130	154	160	135	149	139	142
South America	346	318	330	345	335	319	320	376	356	419
Argentina	60	54	58	47	66	55	60	64	69	83
Brazil	142	107	113	121	94	105	93	92	99	120

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Chile	29	30	24	27	33	18	32	54	34	34
Colombia	35	36	24	41	40	47	37	64	52	73
South America, other	80	91	111	109	102	94	98	102	102	109
Europe	1,037	1,065	1,219	1,211	1,210	1,311	1,252	1,289	1,338	1,443
Belgium	21	13	14	20	15	15	12	16	11	18
England, United Kingdom	108	80	112	128	89	127	120	97	94	94
France	44	62	53	56	60	61	67	64	66	81
Germany	155	153	181	145	183	172	152	168	148	152
Europe, other	709	757	859	862	863	936	901	944	1,019	1,098
East Asia	3,810	3,252	3,183	2,877	2,876	2,700	2,627	2,724	2,850	3,378
China, People's Republic of	2,204	1,729	1,801	1,636	1,657	1,526	1,509	1,520	1,667	2,036
Hong Kong	79	73	64	43	34	31	31	17	25	31
Japan	137	118	134	127	178	126	126	166	158	175
Korea	661	586	531	484	468	528	503	558	552	645
Taiwan	584	628	523	440	385	297	254	252	243	278
Thailand	76	56	69	82	93	122	133	142	134	117
East Asia, other	69	62	61	65	61	70	71	69	71	96
West Asia	1,186	1,073	997	968	920	906	890	991	1,037	1,169
India	658	653	592	534	473	464	399	468	495	598
Iran	82	52	49	50	42	38	26	27	29	54
Iraq	7	2	2	0	0	5	2	0	0	0
Israel	64	49	45	39	40	38	44	54	57	60
Lebanon	34	21	20	16	16	18	18	18	22	20
Saudi Arabia	40	39	28	32	39	23	46	42	57	45
Turkey	78	73	90	92	139	164	191	206	198	192
West Asia, other	223	184	171	205	171	156	164	176	179	200
Pacific/Australasia	201	162	156	137	136	118	115	110	126	125
Australia	38	40	42	41	38	34	31	23	40	42
Indonesia	55	44	35	32	36	25	37	25	32	29
Pacific/Australasia, other	108	78	79	64	62	59	47	62	54	54
Africa	305	256	258	240	254	235	197	233	273	287
Egypt	30	28	27	14	21	29	39	47	66	76
Nigeria	29	17	27	26	19	17	8	8	15	16
Africa, other	246	211	204	200	214	189	150	178	192	195
Country unknown	33	101	62	73	40	49	60	64	65	92
Engineering	3,555	3,148	3,057	2,595	2,801	3,086	2,921	3,176	3,550	4,039
North America	97	85	99	111	118	108	97	116	121	144
Canada	45	44	37	51	50	45	37	34	58	50
Caribbean	8	13	17	13	8	8	9	2	13	18
Central America	7	3	6	5	6	9	4	12	8	12
Mexico	37	25	39	42	54	46	47	68	42	64
South America	120	96	105	99	112	96	92	82	124	123
Argentina	9	15	13	9	12	14	5	10	20	9
Brazil	67	44	51	43	37	37	33	16	37	36
Chile	8	1	2	6	9	7	8	12	9	8
Colombia	7	4	8	11	16	12	18	17	23	31
South America, other	29	32	31	30	38	26	28	27	35	39
Europe	241	248	305	276	297	335	301	316	318	300
Belgium	4	5	3	1	6	8	4	7	6	10
England, United Kingdom	10	12	12	14	11	11	14	12	15	13
France	26	12	23	23	23	24	25	23	26	32
Germany	16	28	29	38	46	48	45	23	37	28
Europe, other	185	191	238	200	211	244	213	251	234	217

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
East Asia	1,890	1,558	1,504	1,286	1,423	1,633	1,660	1,816	2,072	2,334
China, People's Republic of	829	666	701	597	721	878	892	975	1,210	1,412
Hong Kong	31	13	27	11	12	15	11	15	6	10
Japan	32	37	21	31	23	23	31	35	28	36
Korea	330	315	291	276	285	337	353	398	504	525
Taiwan	582	465	386	306	291	242	215	188	151	164
Thailand	43	41	53	52	60	114	131	170	138	134
East Asia, other	43	21	25	13	31	24	27	35	35	53
West Asia	1,011	971	837	679	674	741	598	671	754	905
India	629	628	542	381	361	353	282	301	368	505
Iran	70	61	44	42	38	62	32	41	31	82
Iraq	2	5	3	5	2	2	1	0	2	0
Israel	20	14	12	8	6	11	6	12	18	13
Lebanon	22	9	18	9	12	10	13	14	11	8
Saudi Arabia	40	31	18	26	17	29	25	23	38	30
Turkey	75	97	82	100	136	143	152	167	146	148
West Asia, other	153	126	118	108	102	131	87	113	140	119
Pacific/Australasia	39	47	49	24	44	40	39	35	48	52
Australia	6	8	4	8	4	11	1	5	6	8
Indonesia	15	23	29	13	27	23	29	22	36	28
Pacific/Australasia, other	18	16	16	3	13	6	9	8	6	16
Africa	144	111	115	98	112	102	98	106	103	119
Egypt	60	49	65	49	62	46	56	62	59	61
Nigeria	11	8	7	9	4	3	5	5	4	6
Africa, other	73	54	43	40	46	53	37	39	40	52
Country unknown	13	32	43	22	21	31	36	34	10	62
Permanent visa	3,009	2,281	1,991	1,654	1,409	1,270	1,170	1,098	1,003	1,112
North America	118	107	112	100	92	98	93	82	87	110
Canada	71	57	65	56	51	53	64	44	42	55
Caribbean	24	20	21	20	18	15	15	14	23	36
Central America	3	7	6	12	5	10	6	4	5	6
Mexico	20	23	20	12	18	20	8	20	17	13
South America	65	73	51	50	51	44	53	55	51	50
Argentina	17	20	6	9	12	9	11	11	9	8
Brazil	11	7	12	10	10	12	13	9	12	16
Chile	5	8	7	11	6	0	4	5	7	3
Colombia	10	7	5	5	9	4	8	13	4	8
South America, other	22	31	21	15	14	19	17	17	19	15
Europe	314	342	366	341	340	355	294	296	269	285
Belgium	8	8	3	6	5	5	2	5	2	4
England, United Kingdom	50	39	43	51	36	53	49	33	37	39
France	16	23	25	15	19	23	11	19	10	16
Germany	51	43	43	33	60	39	33	38	32	36
Europe, other	189	229	252	236	220	235	199	201	188	190
East Asia	1,980	1,274	1,077	749	567	439	449	398	320	392
China, People's Republic of	1,679	985	848	535	383	301	317	260	187	234
Hong Kong	18	15	14	11	8	6	5	10	5	6
Japan	23	24	22	27	35	21	16	31	20	28
Korea	94	81	71	79	59	51	49	43	54	59
Taiwan	137	153	101	78	65	47	41	33	34	43
Thailand	14	4	8	3	4	6	6	6	9	4
East Asia, other	15	12	13	16	13	7	15	15	11	18

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
West Asia	394	325	259	285	233	212	194	181	161	166
India	203	195	134	135	108	101	81	85	76	77
Iran	74	37	38	46	40	29	23	23	15	24
Iraq	4	1	3	3	1	2	1	0	0	0
Israel	17	17	17	16	8	5	17	12	12	8
Lebanon	11	6	7	9	6	5	4	4	2	7
Saudi Arabia	11	1	0	3	3	1	1	2	2	2
Turkey	23	22	18	22	27	33	25	26	25	20
West Asia, other	51	46	42	51	40	36	42	29	29	28
Pacific/Australasia	32	30	26	31	29	24	17	18	24	20
Australia	13	9	6	18	11	13	7	5	12	6
Indonesia	3	8	7	5	10	2	4	5	4	4
Pacific/Australasia, other	16	13	13	8	8	9	6	8	8	10
Africa	83	89	81	78	85	82	50	51	70	58
Egypt	11	14	13	9	17	6	12	8	18	13
Nigeria	17	7	15	20	11	7	5	2	8	5
Africa, other	55	68	53	49	57	69	33	41	44	40
Country unknown	23	41	19	20	12	16	20	17	21	31
Science	2,216	1,688	1,513	1,250	1,059	971	898	832	761	827
North America	103	93	95	81	79	90	85	68	70	87
Canada	65	50	57	46	44	51	59	35	33	45
Caribbean	19	16	16	15	15	12	13	14	18	26
Central America	3	6	6	10	5	8	6	3	4	4
Mexico	16	21	16	10	15	19	7	16	15	12
South America	56	61	44	43	44	34	45	47	38	38
Argentina	14	15	6	9	11	7	11	10	4	8
Brazil	8	5	10	7	10	8	9	7	7	8
Chile	5	8	7	9	5	0	4	5	6	3
Colombia	9	5	4	4	6	4	6	9	3	6
South America, other	20	28	17	14	12	15	15	16	18	13
Europe	256	271	295	286	272	300	244	244	224	248
Belgium	7	5	3	5	4	3	2	4	1	3
England, United Kingdom	46	35	37	44	32	49	42	26	30	35
France	11	20	19	11	11	18	9	18	10	13
Germany	45	37	39	30	49	30	29	36	30	32
Europe, other	147	174	197	196	176	200	162	160	153	165
East Asia	1,454	942	823	556	413	314	320	288	223	270
China, People's Republic of	1,288	759	665	425	284	223	233	189	133	156
Hong Kong	9	11	10	6	7	2	4	6	3	5
Japan	21	21	22	26	32	20	12	27	17	25
Korea	57	45	51	46	37	30	38	29	34	42
Taiwan	59	92	62	40	38	29	20	21	21	27
Thailand	11	4	3	1	3	4	3	4	6	2
East Asia, other	9	10	10	12	12	6	10	12	9	13
West Asia	242	199	163	185	157	136	141	117	113	102
India	126	126	91	96	80	74	56	68	59	48
Iran	45	20	19	27	24	15	14	9	8	14
Iraq	4	0	1	0	0	1	1	0	0	0
Israel	17	15	15	14	8	4	17	7	10	7
Lebanon	3	4	2	2	5	2	3	4	1	5
Saudi Arabia	7	1	0	1	2	0	0	1	1	1
Turkey	11	6	14	11	14	20	14	11	19	13
West Asia, other	29	27	21	34	24	20	36	17	15	14

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Pacific/Australasia	28	23	19	25	23	18	16	18	20	16
Australia	11	8	6	14	10	9	7	5	11	5
Indonesia	3	4	1	4	6	1	3	5	1	3
Pacific/Australasia, other	14	11	12	7	7	8	6	8	8	8
Africa	59	65	60	57	62	65	36	37	56	41
Egypt	7	7	4	3	6	3	5	3	11	7
Nigeria	12	6	13	15	9	4	3	2	7	4
Africa, other	40	52	43	39	47	58	28	32	38	30
Country unknown	18	34	14	17	9	14	11	13	17	25
Engineering	793	593	478	404	350	299	272	266	242	285
North America	15	14	17	19	13	8	8	14	17	23
Canada	6	7	8	10	7	2	5	9	9	10
Caribbean	5	4	5	5	3	3	2	0	5	10
Central America	0	1	0	2	0	2	0	1	1	2
Mexico	4	2	4	2	3	1	1	4	2	1
South America	9	12	7	7	7	10	8	8	13	12
Argentina	3	5	0	0	1	2	0	1	5	0
Brazil	3	2	2	3	0	4	4	2	5	8
Chile	0	0	0	2	1	0	0	0	1	0
Colombia	1	2	1	1	3	0	2	4	1	2
South America, other	2	3	4	1	2	4	2	1	1	2
Europe	58	71	71	55	68	55	50	52	45	37
Belgium	1	3	0	1	1	2	0	1	1	1
England, United Kingdom	4	4	6	7	4	4	7	7	7	4
France	5	3	6	4	8	5	2	1	0	3
Germany	6	6	4	3	11	9	4	2	2	4
Europe, other	42	55	55	40	44	35	37	41	35	25
East Asia	526	332	254	193	154	125	129	110	97	122
China, People's Republic of	391	226	183	110	99	78	84	71	54	78
Hong Kong	9	4	4	5	1	4	1	4	2	1
Japan	2	3	0	1	3	1	4	4	3	3
Korea	37	36	20	33	22	21	11	14	20	17
Taiwan	78	61	39	38	27	18	21	12	13	16
Thailand	3	0	5	2	1	2	3	2	3	2
East Asia, other	6	2	3	4	1	1	5	3	2	5
West Asia	152	126	96	100	76	76	53	64	48	64
India	77	69	43	39	28	27	25	17	17	29
Iran	29	17	19	19	16	14	9	14	7	10
Iraq	0	1	2	3	1	1	0	0	0	0
Israel	0	2	2	2	0	1	0	5	2	1
Lebanon	8	2	5	7	1	3	1	0	1	2
Saudi Arabia	4	0	0	2	1	1	1	1	1	1
Turkey	12	16	4	11	13	13	11	15	6	7
West Asia, other	22	19	21	17	16	16	6	12	14	14
Pacific/Australasia	4	7	7	6	6	6	1	0	4	4
Australia	2	1	0	4	1	4	0	0	1	1
Indonesia	0	4	6	1	4	1	1	0	3	1
Pacific/Australasia, other	2	2	1	1	1	1	0	0	0	2
Africa	24	24	21	21	23	17	14	14	14	17
Egypt	4	7	9	6	11	3	7	5	7	6
Nigeria	5	1	2	5	2	3	2	0	1	1
Africa, other	15	16	10	10	10	11	5	9	6	10
Country unknown	5	7	5	3	3	2	9	4	4	6

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Temporary visa	7,902	7,507	7,743	7,238	7,658	7,943	7,691	8,382	9,151	10,404
North America	417	391	459	457	521	499	483	551	593	598
Canada	207	206	221	233	243	253	251	279	338	310
Caribbean	24	29	44	34	36	25	29	30	54	58
Central America	44	31	38	30	52	35	29	45	37	37
Mexico	142	125	156	160	190	186	174	197	164	193
South America	401	341	384	394	396	371	359	403	429	492
Argentina	52	49	65	47	66	60	54	63	80	84
Brazil	198	144	152	154	121	130	113	99	124	140
Chile	32	23	19	22	36	25	36	61	36	39
Colombia	32	33	27	47	47	55	47	68	71	96
South America, other	87	92	121	124	126	101	109	112	118	133
Europe	964	971	1,158	1,146	1,167	1,291	1,259	1,309	1,387	1,458
Belgium	17	10	14	15	16	18	14	18	15	24
England, United Kingdom	68	53	81	91	64	85	85	76	72	68
France	54	51	51	64	64	62	81	68	82	97
Germany	120	138	167	150	169	181	164	153	153	144
Europe, other	705	719	845	826	854	945	915	994	1,065	1,125
East Asia	3,720	3,536	3,610	3,414	3,732	3,894	3,838	4,142	4,602	5,320
China, People's Republic of	1,354	1,410	1,654	1,698	1,995	2,103	2,084	2,235	2,690	3,214
Hong Kong	92	71	77	43	38	40	37	22	26	35
Japan	146	131	133	131	166	128	141	170	166	183
Korea	897	820	751	681	694	814	807	913	1,002	1,111
Taiwan	1,029	940	808	668	611	492	428	407	360	399
Thailand	105	93	114	131	149	230	258	306	263	247
East Asia, other	97	71	73	62	79	87	83	89	95	131
West Asia	1,803	1,719	1,575	1,362	1,361	1,435	1,294	1,481	1,630	1,908
India	1,084	1,086	1,000	780	726	716	600	684	787	1,026
Iran	78	76	55	46	40	71	35	45	45	112
Iraq	5	6	2	2	1	5	2	0	2	0
Israel	67	46	40	31	38	44	33	54	63	65
Lebanon	45	24	31	16	22	23	27	28	31	21
Saudi Arabia	69	69	46	55	53	51	70	63	93	73
Turkey	130	148	154	170	248	274	318	347	319	320
West Asia, other	325	264	247	262	233	251	209	260	290	291
Pacific/Australasia	208	179	179	130	151	134	137	127	150	157
Australia	31	39	40	31	31	32	25	23	34	44
Indonesia	67	59	57	40	53	46	62	42	64	53
Pacific/Australasia, other	110	81	82	59	67	56	50	62	52	60
Africa	366	278	292	260	281	255	245	288	306	348
Egypt	79	63	79	54	66	69	83	101	107	124
Nigeria	23	18	19	15	12	13	8	11	11	17
Africa, other	264	197	194	191	203	173	154	176	188	207
Country unknown	23	92	86	75	49	64	76	81	54	123
Science	5,140	4,952	5,164	5,047	5,207	5,156	5,042	5,472	5,843	6,650
North America	335	320	377	365	416	399	394	449	489	477
Canada	168	169	192	192	200	210	219	254	289	270
Caribbean	21	20	32	26	31	20	22	28	46	50
Central America	37	29	32	27	46	28	25	34	30	27
Mexico	109	102	121	120	139	141	128	133	124	130
South America	290	257	286	302	291	285	275	329	318	381
Argentina	46	39	52	38	55	48	49	54	65	75

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Brazil	134	102	103	114	84	97	84	85	92	112
Chile	24	22	17	18	28	18	28	49	28	31
Colombia	26	31	20	37	34	43	31	55	49	67
South America, other	60	63	94	95	90	79	83	86	84	96
Europe	781	794	924	925	938	1,011	1,008	1,045	1,114	1,195
Belgium	14	8	11	15	11	12	10	12	10	15
England, United Kingdom	62	45	75	84	57	78	78	71	64	59
France	33	42	34	45	49	43	58	46	56	68
Germany	110	116	142	115	134	142	123	132	118	120
Europe, other	562	583	662	666	687	736	739	784	866	933
East Asia	2,356	2,310	2,360	2,321	2,463	2,386	2,307	2,436	2,627	3,108
China, People's Republic of	916	970	1,136	1,211	1,373	1,303	1,276	1,331	1,534	1,880
Hong Kong	70	62	54	37	27	29	27	11	22	26
Japan	116	97	112	101	146	106	114	139	141	150
Korea	604	541	480	438	431	498	465	529	518	603
Taiwan	525	536	461	400	347	268	234	231	222	251
Thailand	65	52	66	81	90	118	130	138	128	115
East Asia, other	60	52	51	53	49	64	61	57	62	83
West Asia	944	874	834	783	763	770	749	874	924	1,067
India	532	527	501	438	393	390	343	400	436	550
Iran	37	32	30	23	18	23	12	18	21	40
Iraq	3	2	1	0	0	4	1	0	0	0
Israel	47	34	30	25	32	34	27	47	47	53
Lebanon	31	17	18	14	11	16	15	14	21	15
Saudi Arabia	33	38	28	31	37	23	46	41	56	44
Turkey	67	67	76	81	125	144	177	195	179	179
West Asia, other	194	157	150	171	147	136	128	159	164	186
Pacific/Australasia	173	139	137	112	113	100	99	92	106	109
Australia	27	32	36	27	28	25	24	18	29	37
Indonesia	52	40	34	28	30	24	34	20	31	26
Pacific/Australasia, other	94	67	67	57	55	51	41	54	46	46
Africa	246	191	198	183	192	170	161	196	217	246
Egypt	23	21	23	11	15	26	34	44	55	69
Nigeria	17	11	14	11	10	13	5	6	8	12
Africa, other	206	159	161	161	167	131	122	146	154	165
Country unknown	15	67	48	56	31	35	49	51	48	67
Engineering	2,762	2,555	2,579	2,191	2,451	2,787	2,649	2,910	3,308	3,754
North America	82	71	82	92	105	100	89	102	104	121
Canada	39	37	29	41	43	43	32	25	49	40
Caribbean	3	9	12	8	5	5	7	2	8	8
Central America	7	2	6	3	6	7	4	11	7	10
Mexico	33	23	35	40	51	45	46	64	40	63
South America	111	84	98	92	105	86	84	74	111	111
Argentina	6	10	13	9	11	12	5	9	15	9
Brazil	64	42	49	40	37	33	29	14	32	28
Chile	8	1	2	4	8	7	8	12	8	8
Colombia	6	2	7	10	13	12	16	13	22	29
South America, other	27	29	27	29	36	22	26	26	34	37
Europe	183	177	234	221	229	280	251	264	273	263
Belgium	3	2	3	0	5	6	4	6	5	9
England, United Kingdom	6	8	6	7	7	7	7	5	8	9
France	21	9	17	19	15	19	23	22	26	29

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country/economy of citizenship: 1996–2005

Visa and country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Germany	10	22	25	35	35	39	41	21	35	24
Europe, other	143	136	183	160	167	209	176	210	199	192
East Asia	1,364	1,226	1,250	1,093	1,269	1,508	1,531	1,706	1,975	2,212
China, People's Republic of	438	440	518	487	622	800	808	904	1,156	1,334
Hong Kong	22	9	23	6	11	11	10	11	4	9
Japan	30	34	21	30	20	22	27	31	25	33
Korea	293	279	271	243	263	316	342	384	484	508
Taiwan	504	404	347	268	264	224	194	176	138	148
Thailand	40	41	48	50	59	112	128	168	135	132
East Asia, other	37	19	22	9	30	23	22	32	33	48
West Asia	859	845	741	579	598	665	545	607	706	841
India	552	559	499	342	333	326	257	284	351	476
Iran	41	44	25	23	22	48	23	27	24	72
Iraq	2	4	1	2	1	1	1	0	2	0
Israel	20	12	10	6	6	10	6	7	16	12
Lebanon	14	7	13	2	11	7	12	14	10	6
Saudi Arabia	36	31	18	24	16	28	24	22	37	29
Turkey	63	81	78	89	123	130	141	152	140	141
West Asia, other	131	107	97	91	86	115	81	101	126	105
Pacific/Australasia	35	40	42	18	38	34	38	35	44	48
Australia	4	7	4	4	3	7	1	5	5	7
Indonesia	15	19	23	12	23	22	28	22	33	27
Pacific/Australasia, other	16	14	15	2	12	5	9	8	6	14
Africa	120	87	94	77	89	85	84	92	89	102
Egypt	56	42	56	43	51	43	49	57	52	55
Nigeria	6	7	5	4	2	0	3	5	3	5
Africa, other	58	38	33	30	36	42	32	30	34	42
Country unknown	8	25	38	19	18	29	27	30	6	56

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

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
All institutions	na	43,354	27,974	7,406	1,038	6,368	1,136	713	1,203	3,647	2,127	1,520	3,327	4,138	6,404	875	757	1,852	978	1,942	15,380
Alabama	25	525	338	114	18	96	13	10	14	49	25	24	34	25	79	13	7	14	9	36	187
AL A&M U.	285	8	8	2	2	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0
Auburn U. main campus	78	174	116	36	16	20	1	1	3	15	13	2	20	10	30	8	2	3	4	13	58
U. AL, The	108	154	73	4	0	4	6	6	8	15	10	5	5	11	18	4	3	5	1	5	81
U. AL Birmingham, The	91	139	96	68	0	68	1	0	2	7	2	5	8	4	6	0	1	0	0	5	43
U. AL Huntsville, The	169	39	39	0	0	0	5	1	1	6	0	6	1	0	25	1	1	6	4	13	0
U. South AL	298	11	6	4	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
Alaska	51	25	25	12	4	8	0	7	0	2	1	1	0	2	2	1	0	0	0	1	0
U. AK Fairbanks	199	25	25	12	4	8	0	7	0	2	1	1	0	2	2	1	0	0	0	1	0
Arizona	21	760	473	114	22	92	9	19	17	62	27	35	47	84	121	5	8	50	10	48	287
AZ State U. main campus	48	321	182	26	2	24	7	4	6	18	11	7	25	34	62	1	3	31	3	24	139
Northern AZ U.	203	52	24	12	1	11	0	0	0	0	0	0	3	9	0	0	0	0	0	0	28
U. AZ	25	387	267	76	19	57	2	15	11	44	16	28	19	41	59	4	5	19	7	24	120
Arkansas	40	194	116	53	27	26	4	0	3	20	8	12	8	7	21	3	0	8	2	8	78
AR State U. main campus	317	13	4	3	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9
U. AR for Medical Sciences	268	13	10	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
U. AR Little Rock	276	23	9	0	0	0	0	0	0	5	3	2	0	0	4	2	0	0	0	2	14
U. AR main campus	94	145	93	40	25	15	4	0	3	15	5	10	8	6	17	1	0	8	2	6	52
California	1	5,225	3,600	777	36	741	171	132	153	505	292	213	455	521	886	102	90	337	136	221	1,625
Azusa Pacific U.	340	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
Biola U.	285	13	8	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	5
CA Institute of Integral Studies	306	25	5	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	20
CA Institute of Technology	48	182	182	27	0	27	8	9	12	65	33	32	1	2	58	13	1	12	6	26	0
CA School of Professional Psychologists Fresno	214	22	22	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
CA School of Professional Psychology Almeda	197	28	26	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	2
CA School of Professional Psychology Los Angeles	179	33	33	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0
CA School of Professional Psychology San Diego	164	45	41	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	4
Claremont Graduate U.	182	92	32	4	0	4	2	0	2	0	0	0	3	21	0	0	0	0	0	0	60
Claremont School of Theology	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Fielding Institute, The	149	107	50	0	0	0	0	0	0	0	0	0	46	4	0	0	0	0	0	0	57
Fuller Theological Seminary CA	179	67	33	0	0	0	0	0	0	0	0	0	28	5	0	0	0	0	0	0	34

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Graduate Theological Union	358	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
La Sierra U.	358	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Loma Linda U.	209	45	23	12	0	12	0	1	0	0	0	0	10	0	0	0	0	0	0	0	22
Naval Postgraduate School	288	7	7	0	0	0	1	0	1	0	0	0	0	0	5	0	0	3	1	1	0
Pacific Graduate School of Psychology	193	27	27	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0
Pardee RAND Graduate School of Policy Studies	298	6	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Pepperdine U. Malibu	328	67	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	65
San Diego State U.	323	14	3	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	11
Santa Clara U.	306	5	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	4	1	0	0
Saybrook Institute	182	35	32	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	3
Scripps Research Institute, The	218	21	21	14	0	14	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0
Stanford U.	3	642	519	74	2	72	29	30	26	78	40	38	13	52	217	22	21	93	33	48	123
U. CA, Berkeley	1	802	582	105	15	90	33	17	37	97	53	44	25	98	170	19	31	41	46	33	220
U. CA, Davis	20	389	327	151	11	140	12	11	12	35	22	13	9	40	57	3	9	12	10	23	62
U. CA, Irvine	58	211	162	41	0	41	12	2	8	29	20	9	13	23	34	5	3	11	4	11	49
U. CA, Los Angeles	6	651	440	102	0	102	22	14	23	50	31	19	26	88	115	18	14	51	13	19	211
U. CA, Riverside	81	159	113	34	6	28	7	0	10	16	11	5	7	24	15	4	1	8	0	2	46
U. CA, San Diego	26	301	261	82	0	82	9	19	9	44	31	13	14	28	56	1	2	24	11	18	40
U. CA, San Francisco	117	86	67	46	0	46	1	0	0	9	9	0	0	5	6	0	0	0	0	6	19
U. CA, Santa Barbara	36	287	210	16	1	15	14	12	5	35	9	26	22	42	64	13	0	26	7	18	77
U. CA, Santa Cruz	101	99	82	14	1	13	4	7	4	14	7	7	10	19	10	0	0	10	0	0	17
U. La Verne	358	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
U. San Diego	340	20	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	19
U. San Francisco	306	42	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	37
U. Southern CA	27	554	260	54	0	54	17	10	3	23	16	7	26	54	73	4	8	42	3	16	294
U. of the Pacific	306	26	5	0	0	0	0	0	0	3	3	0	2	0	0	0	0	0	0	0	21
Wright Institute all campuses	288	7	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
Colorado	17	750	522	130	19	111	16	31	26	78	34	44	50	69	122	27	28	21	12	34	228
CO School of Mines	148	51	51	1	1	0	1	5	2	10	2	8	0	3	29	10	1	0	2	16	0
CO State U.	63	187	145	61	18	43	1	11	4	12	8	4	13	18	25	3	14	3	4	1	42
U. CO Boulder	35	267	214	27	0	27	10	15	14	51	20	31	6	32	59	14	11	12	6	16	53
U. CO Colorado Springs	288	7	7	0	0	0	2	0	0	0	0	0	0	0	5	0	0	5	0	0	0
U. CO Denver	268	21	10	0	0	0	0	0	3	0	0	0	0	5	2	0	2	0	0	0	11
U. CO Health Sciences Ctr.	172	54	37	35	0	35	0	0	0	2	1	1	0	0	0	0	0	0	0	0	17
U. Denver	169	94	39	5	0	5	2	0	0	2	2	0	17	11	2	0	0	1	0	1	55
U. Northern CO	228	69	19	1	0	1	0	0	3	1	1	0	14	0	0	0	0	0	0	0	50

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Connecticut	22	613	428	167	5	162	4	3	19	48	35	13	38	92	57	20	6	16	2	13	185
U. CT	45	261	184	68	2	66	0	2	7	18	15	3	23	26	40	16	5	9	2	8	77
U. Hartford	358	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
U. New Haven	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wesleyan U.	261	14	11	5	0	5	0	0	5	1	1	0	0	0	0	0	0	0	0	0	3
Yale U.	31	327	233	94	3	91	4	1	7	29	19	10	15	66	17	4	1	7	0	5	94
Delaware	38	200	128	15	3	12	3	11	5	12	9	3	9	19	54	14	5	20	6	9	72
U. DE	69	156	126	15	3	12	3	11	4	12	9	3	8	19	54	14	5	20	6	9	30
Wilmington C. (New Castle, DE)	328	44	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	42
District of Columbia	27	519	307	69	0	69	10	0	7	24	18	6	60	119	18	0	2	9	3	4	212
American U.	134	72	58	1	0	1	0	0	2	4	2	2	16	35	0	0	0	0	0	0	14
Catholic U. America, The	228	72	19	0	0	0	0	0	0	1	0	1	11	3	4	0	0	2	1	1	53
Gallaudet U.	268	13	10	0	0	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	3
George Washington U.	96	183	92	25	0	25	10	0	2	6	4	2	9	27	13	0	2	7	2	2	91
Georgetown U.	124	80	64	19	0	19	0	0	0	10	10	0	1	34	0	0	0	0	0	0	16
Howard U.	124	99	64	24	0	24	0	0	3	3	2	1	14	19	1	0	0	0	0	1	35
Florida	9	1,677	977	203	51	152	76	32	25	144	80	64	147	112	238	21	34	64	25	94	700
Barry U.	317	35	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	31
FL A&M U.	288	22	7	2	2	0	0	0	0	0	0	0	0	0	5	0	0	0	1	4	15
FL Atlantic U.	190	55	29	0	0	0	2	0	0	7	2	5	8	5	7	0	0	5	1	1	26
FL Institute of Technology	238	18	17	1	0	1	2	1	1	4	1	3	1	0	7	0	2	4	1	0	1
FL International U.	157	80	44	7	0	7	5	0	0	6	2	4	12	9	5	0	4	1	0	0	36
FL State U.	76	278	118	13	2	11	8	10	3	27	17	10	18	25	14	1	3	0	8	2	160
Lynn U.	323	16	3	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	13
Nova Southeastern U.	134	121	58	0	0	0	33	1	0	0	0	0	15	8	1	0	0	0	1	0	63
U. Central FL	99	151	87	2	0	2	16	0	4	18	1	17	12	4	31	0	4	14	5	8	64
U. FL	7	574	438	139	47	92	6	8	13	63	43	20	38	36	135	17	15	27	6	70	136
U. Miami	109	110	72	19	0	19	0	6	0	9	7	2	18	11	9	0	1	1	2	5	38
U. South FL	88	188	100	20	0	20	3	6	4	10	7	3	21	12	24	3	5	12	0	4	88
U. West FL	358	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Georgia	12	1,139	742	176	29	147	28	14	23	86	66	20	74	88	253	32	26	83	40	72	397
Clark Atlanta U.	276	24	9	2	0	2	0	0	0	0	0	0	0	7	0	0	0	0	0	0	15
Emory U.	94	161	93	43	0	43	0	0	4	13	13	0	9	23	1	0	0	0	0	1	68
GA Institute of Technology main campus	17	364	359	13	4	9	25	9	6	43	30	13	5	9	249	32	26	82	40	69	5
GA Southern U.	358	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
GA State U.	142	121	54	14	0	14	1	1	0	6	2	4	21	10	1	0	0	1	0	0	67
Medical C. GA	257	14	12	12	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mercer U.	328	4	2	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Morehouse School of Medicine	323	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. GA	36	424	210	88	25	63	2	4	13	23	20	3	39	39	2	0	0	0	0	2	214
Valdosta State U.	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hawaii	42	149	99	18	2	16	2	7	2	9	2	7	8	47	6	0	2	2	1	1	50
U. HI Manoa	89	149	99	18	2	16	2	7	2	9	2	7	8	47	6	0	2	2	1	1	50
Idaho	45	126	56	18	9	9	3	1	3	7	4	3	10	4	10	0	2	2	2	4	70
Boise State U.	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ID State U.	253	27	13	4	0	4	0	0	1	0	0	0	7	0	1	0	0	0	1	0	14
U. ID	158	98	43	14	9	5	3	1	2	7	4	3	3	4	9	0	2	2	1	4	55
Illinois	6	2,172	1,332	323	33	290	49	18	59	198	128	70	160	205	320	33	52	95	55	85	840
Benedictine U.	340	23	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	22
Chicago Theological Seminary	340	6	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
DePaul U.	218	26	21	0	0	0	2	0	0	0	0	0	19	0	0	0	0	0	0	0	5
Garrett-Evangelical Theological Seminary	358	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
IL Institute of Technology	140	62	56	1	0	1	7	0	0	3	1	2	10	0	35	6	5	16	3	5	6
IL State U.	288	49	7	5	0	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	42
Institute for Clinical Social Work	358	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Loyola U. Chicago	145	200	52	21	0	21	0	0	0	3	3	0	22	6	0	0	0	0	0	0	148
Lutheran School of Theology Chicago	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
National-Louis U.	358	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern IL U.	203	80	24	1	0	1	0	2	2	3	2	1	8	8	0	0	0	0	0	0	56
Northwestern U.	34	295	216	39	0	39	3	1	10	45	37	8	12	27	79	7	13	13	13	33	79
Roosevelt U.	358	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Rosalind Franklin U. of Medicine and Science	218	21	21	9	0	9	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
Rush U.	298	10	6	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Southern IL U. Carbondale	121	145	65	15	3	12	0	1	0	3	3	0	16	19	11	1	1	4	1	4	80
U. Chicago	33	327	223	62	0	62	5	1	17	48	26	22	14	76	0	0	0	0	0	0	104
U. IL Chicago	51	261	174	66	1	65	5	2	9	24	20	4	11	22	35	8	1	11	6	9	87
U. IL Springfield	340	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
U. IL Urbana-Champaign	5	637	464	98	29	69	27	11	21	69	36	33	33	45	160	11	32	51	32	34	173

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Indiana	14	1,152	686	131	28	103	26	12	41	98	56	42	71	110	197	24	29	60	42	42	466
Ball State U.	249	44	14	0	0	0	0	0	0	0	0	0	12	2	0	0	0	0	0	0	30
IN State U.	244	49	16	2	0	2	0	0	0	0	0	0	10	3	1	0	0	0	0	1	33
IN U. Bloomington	57	409	165	53	5	48	6	5	13	25	10	15	14	48	1	0	1	0	0	0	244
Purdue U. main campus	13	522	396	66	23	43	17	4	22	51	37	14	27	44	165	16	25	52	36	36	126
U. of Notre Dame	93	128	95	10	0	10	3	3	6	22	9	13	8	13	30	8	3	8	6	5	33
Iowa	24	569	355	111	28	83	5	4	25	56	43	13	36	24	94	18	15	20	18	23	214
Drake U.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
IA State U.	39	246	207	70	28	42	4	1	13	32	25	7	18	12	57	12	8	14	10	13	39
Maharishi U. of Management	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
St. Ambrose U.	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
U. IA	61	306	147	41	0	41	1	3	12	24	18	6	18	12	36	6	7	6	8	9	159
U. Northern IA	340	9	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8
Kansas	30	413	246	63	24	39	5	2	7	48	38	10	45	37	39	1	7	9	5	17	167
KS State U.	86	138	102	45	24	21	3	0	3	12	5	7	9	13	17	0	4	3	2	8	36
U. KS Main Campus	80	239	114	18	0	18	2	2	2	31	28	3	26	24	9	1	3	2	0	3	125
Wichita State U.	187	36	30	0	0	0	0	0	2	5	5	0	10	0	13	0	0	4	3	6	6
Kentucky	31	462	242	84	13	71	7	4	17	15	12	3	30	43	42	3	7	7	7	18	220
Asbury Theological Seminary	328	5	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
Southern Baptist Theological Seminary	340	56	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	55
Spalding U.	358	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
U. KY	51	275	174	59	13	46	3	4	14	10	7	3	17	34	33	1	6	6	6	14	101
U. Louisville	121	104	65	25	0	25	4	0	2	5	5	0	13	7	9	2	1	1	1	4	39
Louisiana	26	566	338	127	23	104	10	8	21	32	27	5	41	30	69	13	13	15	8	20	228
Grambling State U.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
LA State U. and A&M C.	64	222	136	55	23	32	3	7	7	15	14	1	11	13	25	6	7	3	3	6	86
LA State U. Health Sciences Ctr.	248	25	15	15	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
LA State U. Shreveport	276	9	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	199	34	25	1	0	1	2	0	5	1	0	1	3	0	13	0	0	2	0	11	9
New Orleans Baptist Theological Seminary	306	14	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	9
Southern U. and A&M C. Baton Rouge	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Tulane U.	96	139	92	36	0	36	3	1	1	8	6	2	9	12	22	7	3	6	4	2	47
U. LA Lafayette	218	34	21	7	0	7	2	0	8	0	0	0	0	0	4	0	0	4	0	0	13
U. LA Monroe	249	21	14	4	0	4	0	0	0	0	0	0	10	0	0	0	0	0	0	0	7
U. New Orleans	218	60	21	0	0	0	0	0	0	8	7	1	3	5	5	0	3	0	1	1	39

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Maine	52	40	24	12	5	7	3	3	0	3	2	1	3	0	0	0	0	0	0	0	16
U. ME	203	40	24	12	5	7	3	3	0	3	2	1	3	0	0	0	0	0	0	0	16
Maryland	11	1,109	744	234	17	217	38	20	36	71	25	46	47	118	180	17	22	57	35	49	365
Baltimore Hebrew U.	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Bowie State U.	358	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Johns Hopkins U., The	30	386	239	108	0	108	6	6	7	18	10	8	0	38	56	7	10	12	6	21	147
Loyola C.	298	6	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
Morgan State U.	306	25	5	0	0	0	0	0	0	0	0	0	0	0	5	0	1	3	0	1	20
Uniformed Services U. of the Health Sciences	285	12	8	6	0	6	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4
U. MD Baltimore	149	82	50	49	0	49	0	0	0	0	0	0	0	0	1	0	0	0	0	1	32
U. MD Baltimore County	110	77	71	11	1	10	15	0	8	9	4	5	8	11	9	1	1	7	0	0	6
U. MD College Park	16	499	364	59	15	44	17	14	21	44	11	33	31	69	109	9	10	35	29	26	135
U. MD Eastern Shore	340	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Massachusetts	4	2,236	1,632	438	19	419	73	43	68	262	132	130	121	294	333	58	19	81	47	128	604
American International C.	328	2	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Boston C.	161	137	42	3	0	3	0	0	0	9	9	0	16	14	0	0	0	0	0	0	95
Boston U.	42	281	194	70	2	68	3	6	9	31	16	15	15	37	23	0	0	11	1	11	87
Brandeis U.	131	79	59	21	0	21	3	0	3	8	3	5	7	17	0	0	0	0	0	0	20
Clark U.	190	32	29	1	0	1	0	0	0	4	0	4	10	14	0	0	0	0	0	0	3
Harvard U.	19	510	336	136	0	136	4	12	14	53	26	27	26	81	10	0	0	2	0	8	174
MA C. of Pharmacy and Health Sciences	323	3	3	1	0	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
MA Institute of Technology	2	581	547	66	1	65	48	21	32	89	40	49	2	67	222	38	11	40	37	96	34
New England Conservatory of Music	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northeastern U.	126	72	63	7	0	7	1	0	1	12	3	9	8	13	21	0	2	13	1	5	9
Simmons C.	358	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Smith C.	340	10	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9
Springfield C. (Springfield, MA)	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Suffolk U.	298	6	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
Tufts U.	106	90	78	46	0	46	2	0	2	7	4	3	7	9	5	3	0	1	1	0	12
U. MA Amherst	56	267	167	43	14	29	8	3	7	31	22	9	12	35	28	12	3	6	4	3	100
U. MA Boston	193	48	27	9	2	7	0	1	0	1	1	0	10	6	0	0	0	0	0	0	21
U. MA Dartmouth	328	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0
U. MA Lowell	209	49	23	3	0	3	2	0	0	9	4	5	0	0	9	3	0	5	1	0	26
U. MA Worcester	182	32	32	31	0	31	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Worcester Polytechnic Institute	218	21	21	1	0	1	2	0	0	6	2	4	0	0	12	2	3	1	2	4	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Michigan	7	1,574	1,075	240	57	183	37	18	41	129	88	41	131	165	314	26	28	68	85	107	499
Andrews U.	340	18	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	17
Calvin C.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Central MI U.	249	18	14	0	0	0	0	0	1	0	0	0	13	0	0	0	0	0	0	0	4
Eastern MI U.	358	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
MI State U.	21	475	325	105	43	62	16	2	13	47	34	13	35	59	48	7	6	10	15	10	150
MI Technological U.	161	44	42	2	0	2	1	3	6	4	2	2	0	0	26	4	3	2	14	3	2
Oakland U.	268	20	10	1	0	1	2	0	1	1	0	1	1	0	4	0	0	0	2	2	10
U. Detroit Mercy	268	10	10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0
U. MI Ann Arbor	4	711	495	94	12	82	15	11	13	56	34	22	33	68	205	14	13	52	46	80	216
Wayne State U.	75	165	119	30	0	30	3	0	3	17	16	1	17	21	28	1	6	4	7	10	46
Western MI U.	131	93	59	8	2	6	0	2	4	4	2	2	21	17	3	0	0	0	1	2	34
Minnesota	18	847	504	142	31	111	16	9	20	53	36	17	89	69	106	28	8	29	8	33	343
Hamline U.	340	10	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9
Luther Northwestern Theological Seminary	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mayo School of Health-Related Sciences	203	24	24	17	0	17	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0
St. Mary's U. MN	358	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
U. MN Twin Cities	10	644	421	124	31	93	16	9	20	53	36	17	41	61	97	28	8	29	8	24	223
U. of St. Thomas (St. Paul, MN)	340	21	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	20
Walden U.	137	123	57	1	0	1	0	0	0	0	0	0	47	7	2	0	0	0	0	2	66
Mississippi	36	367	168	59	23	36	6	3	4	16	15	1	41	21	18	5	0	4	1	8	199
Delta State U.	358	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jackson State U.	249	32	14	2	2	0	0	0	0	3	3	0	4	5	0	0	0	0	0	0	18
MS State U.	129	111	60	32	21	11	3	0	0	3	3	0	4	7	11	1	0	3	1	6	51
U. MS main campus	203	64	24	4	0	4	1	0	4	1	1	0	9	2	3	2	0	1	0	0	40
U. Southern MS	131	137	59	10	0	10	2	3	0	9	8	1	24	7	4	2	0	0	0	2	78
U. MS Medical Ctr.	261	11	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missouri	20	767	489	161	20	141	13	11	16	51	34	17	63	70	104	7	12	31	15	39	278
Concordia Seminary	358	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
St. Louis U. main campus	164	120	41	18	0	18	0	3	1	0	0	0	13	6	0	0	0	0	0	0	79
U. MO-Columbia	59	275	157	52	19	33	6	2	11	13	9	4	22	30	21	1	3	4	4	9	118
U. MO-Kansas City	193	48	27	2	1	1	0	1	1	7	7	0	6	8	2	0	0	2	0	0	21
U. MO-Rolla	120	66	66	0	0	0	2	1	1	8	6	2	0	0	54	1	7	18	9	19	0
U. MO-St. Louis	187	51	30	6	0	6	0	0	0	4	3	1	14	6	0	0	0	0	0	0	21
Washington U. St. Louis	55	201	168	83	0	83	5	4	2	19	9	10	8	20	27	5	2	7	2	11	33

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Montana	44	92	59	38	12	26	2	0	4	7	4	3	4	2	2	1	1	0	0	0	33
MT State U. Bozeman	209	32	23	12	2	10	2	0	2	4	1	3	0	1	2	1	1	0	0	0	9
U. MT, The	175	60	36	26	10	16	0	0	2	3	3	0	4	1	0	0	0	0	0	0	24
Nebraska	37	289	166	64	19	45	10	1	4	16	13	3	30	24	17	3	1	5	2	6	123
Creighton U.	257	13	12	11	0	11	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1
U. NE Lincoln	69	229	126	39	19	20	10	1	4	10	7	3	30	15	17	3	1	5	2	6	103
U. NE Omaha	276	19	9	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	10
U. NE Medical Ctr.	228	28	19	14	0	14	0	0	0	5	5	0	0	0	0	0	0	0	0	0	9
Nevada	43	125	90	15	2	13	1	17	0	11	4	7	20	8	18	1	5	2	5	5	35
U. NV, Las Vegas	244	37	16	2	1	1	0	2	0	2	0	2	0	5	5	0	1	0	3	1	21
U. NV, Reno	107	88	74	13	1	12	1	15	0	9	4	5	20	3	13	1	4	2	2	4	14
New Hampshire	39	136	117	44	7	37	10	6	6	16	7	9	11	6	18	3	1	2	1	11	19
Dartmouth C.	114	70	68	31	0	31	9	0	3	9	4	5	3	0	13	2	0	1	1	9	2
Southern NH U.	340	3	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
U. NH	152	63	48	13	7	6	1	6	3	7	3	4	8	5	5	1	1	1	0	2	15
New Jersey	15	917	628	120	21	99	36	9	41	96	44	52	65	111	150	23	18	57	17	35	289
Drew U.	358	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Fairleigh Dickinson U. all campuses	209	23	23	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0
Montclair State U.	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NJ Institute of Technology	111	70	69	3	2	1	13	0	7	6	2	4	0	0	40	4	8	14	7	7	1
Princeton Theological Seminary	358	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Princeton U.	40	277	202	18	0	18	12	3	11	48	23	25	5	48	57	10	3	30	6	8	75
Rutgers, The State U. NJ New Brunswick Campus	38	306	209	54	19	35	8	4	22	20	4	16	19	40	42	8	4	10	4	16	97
Rutgers, The State U. NJ Newark Campus	154	63	46	4	0	4	3	1	0	11	9	2	4	23	0	0	0	0	0	0	17
Seton Hall U.	228	63	19	0	0	0	0	0	0	5	5	0	14	0	0	0	0	0	0	0	44
Stevens Institute of Technology	228	23	19	0	0	0	0	1	1	6	1	5	0	0	11	1	3	3	0	4	4
U. of Medicine and Dentistry NJ	164	41	41	41	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	34	309	176	37	7	30	10	8	12	27	9	18	13	25	44	6	4	22	5	7	133
NM Institute of Mining and Technology	257	12	12	0	0	0	2	4	0	3	1	2	0	0	3	1	0	0	0	2	0
NM State U. Main Campus	158	96	43	13	7	6	2	0	3	9	2	7	6	0	10	3	2	1	2	2	53
U. NM all campuses	74	201	121	24	0	24	6	4	9	15	6	9	7	25	31	2	2	21	3	3	80

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
New York	2	3,705	2,419	647	43	604	93	43	107	312	140	172	363	455	399	54	53	130	56	106	1,286
Adelphi U.	169	42	39	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	3
Albany Medical C.	261	11	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfred U. main campus	306	5	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	0
Clarkson U.	238	17	17	0	0	0	0	0	0	3	2	1	0	0	14	5	3	5	1	0	0
Columbia U. in the City of NY	22	472	290	83	1	82	12	17	15	55	26	29	8	68	32	4	4	11	7	6	182
Cornell U. Endowed Colleges	14	452	377	117	34	83	15	3	26	56	22	34	14	66	80	11	15	28	10	16	75
CUNY Graduate Ctr.	44	296	190	29	1	28	11	2	6	21	10	11	49	51	21	7	3	7	2	2	106
Fordham U.	145	100	52	2	0	2	0	0	0	0	0	0	42	8	0	0	0	0	0	0	48
Hofstra U.	244	24	16	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	8
Jewish Theological Seminary of America	358	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Juilliard School	358	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Long Island U. Brooklyn Campus	253	13	13	1	0	1	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	218	21	21	21	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New School, The	137	80	57	0	0	0	0	0	0	0	0	0	20	37	0	0	0	0	0	0	23
NY Medical C.	288	7	7	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY U.	54	387	171	53	0	53	8	0	15	21	10	11	24	50	0	0	0	0	0	0	216
Pace U. (New York, NY)	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Polytechnic U.	193	27	27	0	0	0	2	0	1	6	6	0	0	0	18	5	4	7	1	1	0
Rensselaer Polytechnic Institute	72	135	122	6	0	6	5	4	6	18	11	7	1	6	76	12	4	20	15	25	13
Rochester Institute of Technology	317	4	4	0	0	0	0	0	0	1	1	0	0	0	3	0	0	0	0	3	0
Rockefeller U.	214	22	22	20	0	20	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0
St. John's U. (Jamaica, NY)	228	47	19	5	0	5	0	0	0	0	0	0	13	1	0	0	0	0	0	0	28
SUNY Albany	100	135	86	13	1	12	3	4	2	7	2	5	19	36	2	0	0	0	0	2	49
SUNY Binghamton	117	102	67	4	0	4	3	1	4	11	11	0	12	17	15	0	0	3	5	7	35
SUNY Buffalo	41	331	198	48	0	48	11	1	9	26	17	9	14	39	50	5	14	12	5	14	133
SUNY C. of Environmental Science and Forestry	235	18	18	10	5	5	0	2	0	3	3	0	0	1	2	0	2	0	0	0	0
SUNY C. of Optometry	340	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
SUNY Health Science Ctr. Brooklyn	253	13	13	13	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY Stony Brook main campus	43	251	191	55	0	55	11	6	20	32	11	21	15	18	34	1	0	9	8	16	60
SUNY Upstate Medical U.	276	9	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syracuse U. main campus	101	115	82	5	1	4	3	2	0	13	5	8	8	25	26	3	4	17	0	2	33
Teachers C. Columbia U.	145	210	52	4	0	4	0	0	1	0	0	0	37	10	0	0	0	0	0	0	158
Union Theological Seminary	358	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
U. Rochester	61	219	147	48	0	48	9	1	2	37	3	34	8	21	21	1	0	11	2	7	72
Weill Medical C. of Cornell U.	161	42	42	42	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Yeshiva U.	143	67	53	41	0	41	0	0	0	0	0	0	11	1	0	0	0	0	0	0	14
North Carolina	10	1,305	863	311	42	269	42	11	51	115	80	35	52	116	165	14	21	38	28	64	442
Appalachian State U.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Duke U.	32	287	225	75	0	75	11	7	13	24	17	7	7	51	37	0	2	14	7	14	62
East Carolina U.	261	25	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
NC Agricultural and Technical State U.	298	6	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	2	1	3	0
NC State U.	23	343	286	92	41	51	10	4	26	36	22	14	7	18	93	14	15	16	14	34	57
Southeastern Baptist Theological Seminary	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
U. NC Chapel Hill	29	458	241	89	0	89	17	0	5	45	37	8	23	47	15	0	4	1	0	10	217
U. NC Charlotte	190	41	29	4	0	4	4	0	7	0	0	0	2	0	12	0	0	5	6	1	12
U. NC Greensboro	238	90	17	4	0	4	0	0	0	0	0	0	13	0	0	0	0	0	0	0	73
Wake Forest U.	152	48	48	36	1	35	0	0	0	10	4	6	0	0	2	0	0	0	0	2	0
North Dakota	46	91	45	18	5	13	5	0	1	2	0	2	17	0	2	1	1	0	0	0	46
ND State U. main campus	199	27	25	14	5	9	5	0	1	2	0	2	2	0	1	0	1	0	0	0	2
U. ND main campus	227	64	20	4	0	4	0	0	0	0	0	0	15	0	1	1	0	0	0	0	44
Ohio	8	1,632	1,041	265	33	232	20	6	31	162	106	56	136	120	301	56	19	62	51	113	591
Air Force Institute of Technology	218	21	21	0	0	0	0	0	0	2	0	2	0	0	19	0	0	5	0	14	0
Antioch U. all campuses	306	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowling Green State U. main campus	154	90	46	9	0	9	0	0	6	4	4	0	17	10	0	0	0	0	0	0	44
Case Western Reserve U.	60	189	149	53	0	53	1	0	3	20	13	7	6	6	60	10	5	8	11	26	40
Cleveland State U.	203	34	24	5	0	5	0	0	0	2	2	0	2	5	10	1	0	2	2	5	10
Hebrew Union C.-Jewish Institute of Religion	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Kent State U. main campus	149	125	50	5	0	5	7	0	2	9	3	6	19	8	0	0	0	0	0	0	75
Medical C. OH	268	10	10	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miami U. Oxford	182	44	32	13	0	13	0	1	0	7	7	0	7	3	1	0	0	1	0	0	12
OH State U. main campus	15	591	369	111	27	84	7	2	13	48	30	18	32	66	90	19	7	23	10	31	222
OH U. main campus	143	115	53	11	0	11	0	0	4	17	9	8	11	0	10	1	1	4	2	2	62
U. Akron main campus	98	114	89	0	0	0	0	0	0	26	21	5	20	7	36	21	2	2	7	4	25
U. Cincinnati main campus	72	186	122	32	1	31	3	3	3	20	13	7	13	15	33	1	4	11	3	14	64
U. Dayton	261	16	11	0	0	0	0	0	0	2	0	2	0	0	9	0	0	1	4	4	5
U. Toledo	164	68	41	7	0	7	0	0	0	5	4	1	8	0	21	3	0	3	9	6	27
Wright State U. main campus	228	19	19	4	0	4	2	0	0	0	0	0	1	0	12	0	0	2	3	7	0
Youngstown State U.	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Oklahoma	32	386	232	69	19	50	7	9	5	20	7	13	41	31	50	19	4	11	11	5	154
OK State U. main campus	89	175	99	39	18	21	1	0	2	10	4	6	12	15	20	5	0	5	6	4	76
U. OK Norman Campus	84	181	108	29	1	28	2	8	3	10	3	7	19	16	21	7	4	6	3	1	73
U. Tulsa	199	30	25	1	0	1	4	1	0	0	0	0	10	0	9	7	0	0	2	0	5
Oregon	29	375	260	90	31	59	7	14	11	31	16	15	32	37	38	3	11	12	2	10	115
OR Health & Science U.	178	34	34	20	0	20	4	0	0	0	0	0	3	0	7	0	2	3	0	2	0
OR State U.	68	159	128	59	30	29	2	12	3	19	10	9	7	4	22	3	7	7	2	3	31
Portland State U.	168	56	40	3	0	3	0	0	2	4	1	3	7	15	9	0	2	2	0	5	16
U. OR	134	126	58	8	1	7	1	2	6	8	5	3	15	18	0	0	0	0	0	0	68
Pennsylvania	5	2,232	1,397	294	19	275	77	15	70	186	111	75	158	213	384	60	41	98	64	121	835
Bryn Mawr C.	276	16	9	0	0	0	0	0	0	1	1	0	6	2	0	0	0	0	0	0	7
Carnegie Mellon U.	50	197	181	6	0	6	40	1	13	17	8	9	2	11	91	13	8	39	10	21	16
Drexel U.	101	94	82	11	0	11	2	0	0	6	2	4	22	0	41	4	3	9	7	18	12
Duquesne U.	214	45	22	2	0	2	0	0	0	10	10	0	10	0	0	0	0	0	0	0	23
Gannon U.	288	7	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
Indiana U. PA main campus	238	71	17	0	0	0	0	0	0	0	0	0	5	12	0	0	0	0	0	0	54
Lehigh U.	101	101	82	3	0	3	1	1	2	10	3	7	13	2	50	16	5	9	7	13	19
Marywood U.	328	12	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	10
PA State U. main campus	11	606	419	105	19	86	7	10	18	57	30	27	38	57	127	10	18	26	25	48	187
Temple U.	86	219	102	18	0	18	2	0	9	12	8	4	33	27	1	0	0	1	0	0	117
Thomas Jefferson U.	257	12	12	12	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PA	24	464	269	95	0	95	10	2	14	33	20	13	6	78	31	10	0	4	9	8	195
U. Pittsburgh main campus	45	329	184	41	0	41	15	1	14	34	23	11	12	24	43	7	7	10	6	13	145
U. of the Sciences Philadelphia	288	9	7	1	0	1	0	0	0	6	6	0	0	0	0	0	0	0	0	0	2
Villanova U.	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Westminster Theological Seminary	358	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Widener U. PA Campus	328	41	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	39
Rhode Island	35	231	175	41	7	34	9	15	17	26	11	15	16	29	22	3	1	5	6	7	56
Brown U.	82	151	112	23	0	23	9	7	14	18	6	12	3	27	11	0	0	3	4	4	39
Salve Regina U.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
U. RI	126	76	63	18	7	11	0	8	3	8	5	3	13	2	11	3	1	2	2	3	13
South Carolina	33	431	227	72	8	64	6	7	10	33	23	10	20	19	60	15	7	13	7	18	204
Clemson U.	105	115	79	14	7	7	3	0	3	18	11	7	1	6	34	7	4	4	2	17	36
Medical U. SC	182	35	32	30	0	30	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
SC State U.	358	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
U. SC Columbia	78	243	116	28	1	27	3	7	6	14	11	3	19	13	26	8	3	9	5	1	127

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
South Dakota	48	81	38	17	5	12	0	5	0	3	3	0	6	4	3	0	0	0	0	3	43
SD School of Mines and Technology	276	9	9	1	0	1	0	5	0	0	0	0	0	0	3	0	0	0	0	3	0
SD State U.	235	18	18	11	5	6	0	0	0	3	3	0	0	4	0	0	0	0	0	0	0
U. SD	261	54	11	5	0	5	0	0	0	0	0	0	6	0	0	0	0	0	0	0	43
Tennessee	23	699	377	134	16	118	6	0	8	39	32	7	65	50	75	7	9	17	11	31	322
East TN State U.	317	34	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Meharry Medical C.	238	18	17	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mid-America Baptist Theological Seminary	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Middle TN State U.	306	14	5	0	0	0	0	0	0	1	1	0	0	4	0	0	0	0	0	0	9
TN State U.	298	46	6	3	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	40
TN Technological U.	261	14	11	3	3	0	0	0	0	0	0	0	0	0	8	0	1	3	4	0	3
U. Memphis, The	158	103	43	1	0	1	2	0	3	5	5	0	23	5	4	0	1	0	1	2	60
U. TN	66	214	135	34	12	22	2	0	3	12	8	4	24	22	38	4	6	7	3	18	79
U. TN Chattanooga	340	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
U. TN Health Science Ctr.	218	38	21	17	0	17	0	0	0	1	1	0	0	0	3	0	0	0	0	3	17
Vanderbilt U.	67	214	134	55	1	54	2	0	2	20	17	3	15	19	21	3	1	7	3	7	80
Texas	3	2,791	1,781	518	64	454	62	56	80	191	110	81	192	194	488	81	66	141	64	136	1,010
Baylor C. of Dentistry	276	9	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baylor C. of Medicine	129	60	60	60	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baylor U.	244	51	16	5	0	5	0	0	3	4	2	2	1	3	0	0	0	0	0	0	35
Dallas Theological Seminary	358	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lamar U.	298	9	6	0	0	0	0	0	0	0	0	0	0	0	6	1	2	2	1	0	3
Prairie View A&M U.	328	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Rice U.	71	137	123	17	0	17	2	6	12	25	14	11	6	7	48	7	6	12	10	13	14
Sam Houston State U.	253	13	13	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
Southern Methodist U.	177	40	35	2	0	2	2	2	6	0	0	0	1	7	15	0	1	7	3	4	5
Southwestern Baptist Theological Seminary	317	20	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	16
St. Mary's U. (San Antonio, TX)	268	14	10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	4
Stephen F. Austin State U.	340	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M U. Commerce	328	32	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	30
TX A&M U. Corpus Christi	340	6	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
TX A&M U. Kingsville	358	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
TX A&M U. main campus	12	511	397	101	42	59	10	19	22	39	33	6	24	37	145	21	20	40	17	47	114
TX Christian U.	268	16	10	0	0	0	0	0	0	4	3	1	6	0	0	0	0	0	0	0	6

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
TX Southern U.	358	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
TX State U. San Marcos	317	8	4	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	4
TX Tech U.	91	176	96	24	13	11	1	2	5	11	8	3	15	8	30	11	2	6	3	8	80
TX Tech U. Health Science Ctr.	288	10	7	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
TX Woman's U.	235	67	18	6	0	6	0	0	0	0	0	0	12	0	0	0	0	0	0	0	49
U. Dallas	328	3	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
U. Houston	76	213	118	18	0	18	2	6	5	18	7	11	21	9	39	13	3	10	4	9	95
U. North TX	111	146	69	11	2	9	8	0	2	7	5	2	31	6	4	0	0	0	0	4	77
U. North TX Health Science Ctr. Ft. Worth	276	9	9	8	0	8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
U. of St. Thomas (Houston, TX)	358	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
U. TX Arlington	117	90	67	8	0	8	8	0	4	5	3	2	6	8	28	0	1	7	3	17	23
U. TX Austin	9	716	424	61	0	61	14	13	16	57	28	29	38	82	143	28	26	36	23	30	292
U. TX Dallas	111	93	69	10	0	10	13	1	5	11	5	6	1	7	21	0	0	20	0	1	24
U. TX Dental Branch	121	100	65	60	0	60	0	0	0	3	0	3	2	0	0	0	0	0	0	0	35
U. TX El Paso	209	32	23	9	6	3	1	4	0	1	1	0	1	0	7	0	4	1	0	2	9
U. TX Health Science Ctr. San Antonio	214	28	22	18	0	18	0	0	0	4	0	4	0	0	0	0	0	0	0	0	6
U. TX Medical Branch	197	37	26	23	0	23	0	0	0	0	0	0	0	2	1	0	0	0	0	1	11
U. TX San Antonio	306	12	5	3	0	3	1	0	0	0	0	0	0	0	1	0	1	0	0	0	7
U. TX Southwestern Medical Ctr. Dallas	114	68	68	57	0	57	0	0	0	2	1	1	9	0	0	0	0	0	0	0	0
U. TX-Pan American	358	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Utah	28	371	290	58	8	50	8	7	9	48	37	11	55	26	79	8	18	14	11	28	81
Brigham Young U. main campus	128	73	61	5	0	5	1	0	1	11	9	2	29	1	13	2	2	7	2	0	12
U. UT	53	231	172	34	0	34	7	7	6	33	26	7	18	17	50	6	5	6	9	24	59
UT State U.	137	67	57	19	8	11	0	0	2	4	2	2	8	8	16	0	11	1	0	4	10
Vermont	49	62	37	14	1	13	0	0	3	3	3	0	13	0	4	0	2	0	1	1	25
Middlebury C.	358	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
U. VT	172	59	37	14	1	13	0	0	3	3	3	0	13	0	4	0	2	0	1	1	22
Virginia	13	1,066	695	166	42	124	55	18	27	70	38	32	86	96	177	18	18	52	37	52	371
C. of William and Mary	179	50	33	2	0	2	8	4	0	10	1	9	0	8	1	0	0	0	0	1	17
George Mason U.	83	158	111	16	9	7	23	2	6	4	1	3	21	35	4	0	1	1	0	2	47
Hampton U.	340	2	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Norfolk State U.	358	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Old Dominion U.	154	62	46	5	0	5	5	8	2	0	0	0	6	6	14	0	1	5	4	4	16
Regent U.	358	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

TABLE 12. Doctorates awarded, by state, institution, and major field: 2005

State and institution	S&E[a] rank	All fields	All S&E	Agricultural and biological sciences			Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences			Psychology	Social sciences	Engineering						Non-S&E
				Total	Agricultural	Biological				Total	Chemistry	Physics and astronomy			Total	Chemical	Civil	Electrical	Mechanical	Other	
Union Theological Seminary & Presbyterian School of Christian Ed.	358	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
U. VA main campus	47	341	183	50	1	49	6	3	5	28	17	11	26	18	47	9	6	11	6	15	158
VA Commonwealth U.	114	107	68	32	0	32	0	0	0	5	5	0	15	6	10	0	0	2	2	6	39
VA Polytechnic Institute and State U.	28	330	253	61	32	29	13	1	14	22	14	8	18	23	101	9	10	33	25	24	77
Washington	19	728	495	163	36	127	19	27	21	53	29	24	32	79	101	8	15	38	10	30	233
Gonzaga U.	328	7	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	5
Seattle Pacific U.	323	9	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	6
Seattle U.	358	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
U. WA	18	511	354	113	14	99	18	25	16	44	22	22	14	50	74	6	7	32	8	21	157
WA State U.	64	180	136	50	22	28	1	2	5	9	7	2	14	28	27	2	8	6	2	9	44
West Virginia	41	163	108	33	7	26	5	0	2	9	6	3	17	22	20	1	2	7	4	6	55
Marshall U.	306	10	5	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
WV U.	85	153	103	28	7	21	5	0	2	9	6	3	17	22	20	1	2	7	4	6	50
Wisconsin	16	842	532	167	34	133	16	11	29	79	45	34	41	94	95	16	17	21	11	30	310
Cardinal Stritch U.	358	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Marquette U.	187	58	30	3	0	3	0	0	1	9	9	0	10	1	6	0	1	2	2	1	28
Medical C. WI	238	17	17	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. WI Madison	8	664	430	142	33	109	15	11	26	60	30	30	23	72	81	16	14	17	9	25	234
U. WI Milwaukee	141	88	55	5	1	4	1	0	2	10	6	4	8	21	8	0	2	2	0	4	33
Wyoming	50	52	36	7	4	3	1	3	2	8	7	1	5	2	8	2	0	3	0	3	16
U. WY	175	52	36	7	4	3	1	3	2	8	7	1	5	2	8	2	0	3	0	3	16
Puerto Rico	47	67	44	13	0	13	2	3	0	6	5	1	19	0	1	1	0	0	0	0	23
U. PR Mayaguez Campus	288	7	7	1	0	1	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0
U. PR Rio Piedras Campus	172	60	37	12	0	12	0	0	0	6	5	1	19	0	0	0	0	0	0	0	23

na = not applicable.

S&E = science and engineering.

[a] States and institutions are ranked separately.

NOTES: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy. Non-S&E includes doctorates awarded to those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE 13. Definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2005

Citizenship and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States						
			Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
All recipients	43,354	27,383	24,704	8,786	8,489	3,562	3,867	2,659	20
Science and engineering	27,974	17,778	15,876	7,952	3,321	3,055	1,548	1,885	17
Science	21,570	14,050	12,623	6,851	2,927	1,594	1,251	1,414	13
Agricultural sciences	1,038	598	478	204	96	90	88	119	1
Biological sciences	6,368	4,191	3,965	3,224	321	222	198	222	4
Computer sciences	1,136	738	652	145	232	240	35	86	0
Earth, atmospheric, and ocean sciences	713	492	435	263	68	55	49	56	1
Mathematics	1,203	834	711	298	267	108	38	123	0
Physical sciences	3,647	2,369	2,164	1,443	162	468	91	202	3
Astronomy	186	145	130	104	11	10	5	15	0
Chemistry	2,127	1,415	1,328	844	96	343	45	85	2
Physics	1,334	809	706	495	55	115	41	102	1
Psychology	3,327	2,107	2,037	958	511	218	350	68	2
Social sciences	4,138	2,721	2,181	316	1,270	193	402	538	2
Engineering	6,404	3,728	3,253	1,101	394	1,461	297	471	4
Aeronautical/astronautical engineering	219	131	113	40	15	36	22	18	0
Chemical engineering	875	528	464	180	25	249	10	62	2
Civil engineering	757	450	367	130	59	129	49	83	0
Electrical engineering	1,852	1,124	1,001	208	133	580	80	122	1
Industrial engineering	222	121	96	13	26	48	9	24	1
Materials/metallurgical engineering	540	294	258	126	10	105	17	36	0
Mechanical engineering	978	524	461	181	59	174	47	63	0
Other engineering	961	556	493	223	67	140	63	63	0
Non-science and engineering	15,380	9,605	8,828	834	5,168	507	2,319	774	3
U.S. citizens, all fields	26,312	18,304	17,795	5,472	6,830	1,952	3,541	502	7
Science and engineering	14,912	10,478	10,106	4,829	2,414	1,538	1,325	367	5
Science	12,913	9,093	8,762	4,451	2,206	1,016	1,089	326	5
Agricultural sciences	527	338	329	107	81	60	81	9	0
Biological sciences	4,141	2,922	2,830	2,230	252	172	176	91	1
Computer sciences	405	297	280	57	117	77	29	17	0
Earth, atmospheric, and ocean sciences	421	321	301	161	60	36	44	19	1
Mathematics	480	358	335	131	142	35	27	23	0
Physical sciences	1,768	1,264	1,201	686	131	306	78	63	0
Astronomy	120	96	89	67	9	8	5	7	0
Chemistry	1,131	829	798	439	81	239	39	31	0
Physics	517	339	314	180	41	59	34	25	0
Psychology	2,811	1,931	1,900	880	476	209	335	29	2
Social sciences	2,360	1,662	1,586	199	947	121	319	75	1
Engineering	1,999	1,385	1,344	378	208	522	236	41	0
Aeronautical/astronautical engineering	93	65	62	12	8	21	21	3	0
Chemical engineering	294	216	208	77	16	112	3	8	0
Civil engineering	211	155	153	36	36	47	34	2	0
Electrical engineering	466	321	315	49	49	158	59	6	0
Industrial engineering	59	41	41	2	11	20	8	0	0
Materials/metallurgical engineering	177	112	106	44	6	41	15	6	0
Mechanical engineering	292	202	195	52	38	65	40	7	0
Other engineering	407	273	264	106	44	58	56	9	0
Non-science and engineering	11,400	7,826	7,689	643	4,416	414	2,216	135	2
Non-U.S. citizen with permanent visa, all fields	1,600	979	928	314	321	197	96	51	0
Science and engineering	1,112	683	655	278	140	181	56	28	0
Science	827	511	489	245	115	86	43	22	0
Agricultural sciences	30	16	15	5	2	5	3	1	0

TABLE 13. Definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2005

Citizenship and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States						
			Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
Biological sciences	255	148	146	117	9	10	10	2	0
Computer sciences	68	43	42	9	18	14	1	1	0
Earth, atmospheric, and ocean sciences	21	13	13	6	1	4	2	0	0
Mathematics	61	44	42	14	16	10	2	2	0
Physical sciences	132	90	89	58	2	27	2	1	0
Chemistry	82	55	55	33	2	19	1	0	0
Physics	50	35	34	25	0	8	1	1	0
Psychology	80	44	44	23	10	5	6	0	0
Social sciences	180	113	98	13	57	11	17	15	0
Engineering	285	172	166	33	25	95	13	6	0
Aeronautical/astronautical engineering	5	1	1	0	0	1	0	0	0
Chemical engineering	37	24	23	5	1	15	2	1	0
Civil engineering	41	28	24	7	2	11	4	4	0
Electrical engineering	100	62	62	5	11	41	5	0	0
Industrial engineering	17	8	7	0	2	5	0	1	0
Materials/metallurgical engineering	17	9	9	5	0	3	1	0	0
Mechanical engineering	31	14	14	2	4	7	1	0	0
Other engineering	37	26	26	9	5	12	0	0	0
Non-science and engineering	488	296	273	36	181	16	40	23	0
Non-U.S. citizen with temporary visa, all fields	12,824	8,057	5,944	2,990	1,327	1,406	221	2,104	9
Science and engineering	10,404	6,594	5,097	2,837	765	1,329	166	1,489	8
Science	6,650	4,434	3,362	2,149	604	491	118	1,066	6
Agricultural sciences	415	244	134	92	13	25	4	109	1
Biological sciences	1,677	1,116	984	873	60	40	11	129	3
Computer sciences	599	395	327	78	96	148	5	68	0
Earth, atmospheric, and ocean sciences	233	158	121	96	7	15	3	37	0
Mathematics	602	432	334	153	109	63	9	98	0
Physical sciences	1,550	1,014	874	699	29	135	11	138	2
Astronomy	63	49	41	37	2	2	0	8	0
Chemistry	797	531	475	372	13	85	5	54	2
Physics	690	434	358	290	14	48	6	76	0
Psychology	210	132	93	55	25	4	9	39	0
Social sciences	1,364	943	495	103	265	61	66	448	0
Engineering	3,754	2,160	1,735	688	161	838	48	423	2
Aeronautical/astronautical engineering	115	65	50	28	7	14	1	15	0
Chemical engineering	474	283	229	96	8	120	5	53	1
Civil engineering	475	267	190	87	21	71	11	77	0
Electrical engineering	1,189	737	621	154	73	378	16	116	0
Industrial engineering	128	72	48	11	13	23	1	23	1
Materials/metallurgical engineering	317	173	143	77	4	61	1	30	0
Mechanical engineering	606	307	251	127	17	101	6	56	0
Other engineering	450	256	203	108	18	70	7	53	0
Non-science and engineering	2,420	1,463	847	153	562	77	55	615	1

[a] Includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTES: Persons of unknown citizenship are included in total but are not shown separately. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy. Non-science and engineering includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2005

Citizenship and field	Recipients with definite plans	Location of definite plans						
		United States						
		Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
All recipients	100.0	90.2	32.1	31.0	13.0	14.1	9.7	0.1
Science and engineering	100.0	89.3	44.7	18.7	17.2	8.7	10.6	0.1
Science	100.0	89.8	48.8	20.8	11.3	8.9	10.1	0.1
Agricultural sciences	100.0	79.9	34.1	16.1	15.1	14.7	19.9	0.2
Biological sciences	100.0	94.6	76.9	7.7	5.3	4.7	5.3	0.1
Computer sciences	100.0	88.3	19.6	31.4	32.5	4.7	11.7	0.0
Earth, atmospheric, and ocean sciences	100.0	88.4	53.5	13.8	11.2	10.0	11.4	0.2
Mathematics	100.0	85.3	35.7	32.0	12.9	4.6	14.7	0.0
Physical sciences	100.0	91.3	60.9	6.8	19.8	3.8	8.5	0.1
Astronomy	100.0	89.7	71.7	7.6	6.9	3.4	10.3	0.0
Chemistry	100.0	93.9	59.6	6.8	24.2	3.2	6.0	0.1
Physics	100.0	87.3	61.2	6.8	14.2	5.1	12.6	0.1
Psychology	100.0	96.7	45.5	24.3	10.3	16.6	3.2	0.1
Social sciences	100.0	80.2	11.6	46.7	7.1	14.8	19.8	0.1
Engineering	100.0	87.3	29.5	10.6	39.2	8.0	12.6	0.1
Aeronautical/astronautical engineering	100.0	86.3	30.5	11.5	27.5	16.8	13.7	0.0
Chemical engineering	100.0	87.9	34.1	4.7	47.2	1.9	11.7	0.4
Civil engineering	100.0	81.6	28.9	13.1	28.7	10.9	18.4	0.0
Electrical engineering	100.0	89.1	18.5	11.8	51.6	7.1	10.9	0.1
Industrial engineering	100.0	79.3	10.7	21.5	39.7	7.4	19.8	0.8
Materials/metallurgical engineering	100.0	87.8	42.9	3.4	35.7	5.8	12.2	0.0
Mechanical engineering	100.0	88.0	34.5	11.3	33.2	9.0	12.0	0.0
Other engineering	100.0	88.7	40.1	12.1	25.2	11.3	11.3	0.0
Non-science and engineering	100.0	91.9	8.7	53.8	5.3	24.1	8.1	*
U.S. citizens, all fields	100.0	97.2	29.9	37.3	10.7	19.3	2.7	*
Science and engineering	100.0	96.4	46.1	23.0	14.7	12.6	3.5	*
Science	100.0	96.4	48.9	24.3	11.2	12.0	3.6	0.1
Agricultural sciences	100.0	97.3	31.7	24.0	17.8	24.0	2.7	0.0
Biological sciences	100.0	96.9	76.3	8.6	5.9	6.0	3.1	*
Computer sciences	100.0	94.3	19.2	39.4	25.9	9.8	5.7	0.0
Earth, atmospheric, and ocean sciences	100.0	93.8	50.2	18.7	11.2	13.7	5.9	0.3
Mathematics	100.0	93.6	36.6	39.7	9.8	7.5	6.4	0.0
Physical sciences	100.0	95.0	54.3	10.4	24.2	6.2	5.0	0.0
Astronomy	100.0	92.7	69.8	9.4	8.3	5.2	7.3	0.0
Chemistry	100.0	96.3	53.0	9.8	28.8	4.7	3.7	0.0
Physics	100.0	92.6	53.1	12.1	17.4	10.0	7.4	0.0
Psychology	100.0	98.4	45.6	24.7	10.8	17.3	1.5	0.1
Social sciences	100.0	95.4	12.0	57.0	7.3	19.2	4.5	0.1
Engineering	100.0	97.0	27.3	15.0	37.7	17.0	3.0	0.0
Aeronautical/astronautical engineering	100.0	95.4	18.5	12.3	32.3	32.3	4.6	0.0
Chemical engineering	100.0	96.3	35.6	7.4	51.9	1.4	3.7	0.0
Civil engineering	100.0	98.7	23.2	23.2	30.3	21.9	1.3	0.0
Electrical engineering	100.0	98.1	15.3	15.3	49.2	18.4	1.9	0.0
Industrial engineering	100.0	100.0	4.9	26.8	48.8	19.5	0.0	0.0
Materials/metallurgical engineering	100.0	94.6	39.3	5.4	36.6	13.4	5.4	0.0
Mechanical engineering	100.0	96.5	25.7	18.8	32.2	19.8	3.5	0.0
Other engineering	100.0	96.7	38.8	16.1	21.2	20.5	3.3	0.0
Non-science and engineering	100.0	98.2	8.2	56.4	5.3	28.3	1.7	*
Non-U.S. citizen with permanent visa, all fields	100.0	94.8	32.1	32.8	20.1	9.8	5.2	0.0
Science and engineering	100.0	95.9	40.7	20.5	26.5	8.2	4.1	0.0
Science	100.0	95.7	47.9	22.5	16.8	8.4	4.3	0.0
Agricultural sciences	100.0	93.8	31.3	12.5	31.3	18.8	6.3	0.0

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2005

Citizenship and field	Recipients with definite plans	Location of definite plans						
		United States						
		Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
Biological sciences	100.0	98.6	79.1	6.1	6.8	6.8	1.4	0.0
Computer sciences	100.0	97.7	20.9	41.9	32.6	2.3	2.3	0.0
Earth, atmospheric, and ocean sciences	100.0	100.0	46.2	7.7	30.8	15.4	0.0	0.0
Mathematics	100.0	95.5	31.8	36.4	22.7	4.5	4.5	0.0
Physical sciences	100.0	98.9	64.4	2.2	30.0	2.2	1.1	0.0
Chemistry	100.0	100.0	60.0	3.6	34.5	1.8	0.0	0.0
Physics	100.0	97.1	71.4	0.0	22.9	2.9	2.9	0.0
Psychology	100.0	100.0	52.3	22.7	11.4	13.6	0.0	0.0
Social sciences	100.0	86.7	11.5	50.4	9.7	15.0	13.3	0.0
Engineering	100.0	96.5	19.2	14.5	55.2	7.6	3.5	0.0
Aeronautical/astronautical engineering	100.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0
Chemical engineering	100.0	95.8	20.8	4.2	62.5	8.3	4.2	0.0
Civil engineering	100.0	85.7	25.0	7.1	39.3	14.3	14.3	0.0
Electrical engineering	100.0	100.0	8.1	17.7	66.1	8.1	0.0	0.0
Industrial engineering	100.0	87.5	0.0	25.0	62.5	0.0	12.5	0.0
Materials/metallurgical engineering	100.0	100.0	55.6	0.0	33.3	11.1	0.0	0.0
Mechanical engineering	100.0	100.0	14.3	28.6	50.0	7.1	0.0	0.0
Other engineering	100.0	100.0	34.6	19.2	46.2	0.0	0.0	0.0
Non-science and engineering	100.0	92.2	12.2	61.1	5.4	13.5	7.8	0.0
Non-U.S. citizen with temporary visa, all fields	100.0	73.8	37.1	16.5	17.5	2.7	26.1	0.1
Science and engineering	100.0	77.3	43.0	11.6	20.2	2.5	22.6	0.1
Science	100.0	75.8	48.5	13.6	11.1	2.7	24.0	0.1
Agricultural sciences	100.0	54.9	37.7	5.3	10.2	1.6	44.7	0.4
Biological sciences	100.0	88.2	78.2	5.4	3.6	1.0	11.6	0.3
Computer sciences	100.0	82.8	19.7	24.3	37.5	1.3	17.2	0.0
Earth, atmospheric, and ocean sciences	100.0	76.6	60.8	4.4	9.5	1.9	23.4	0.0
Mathematics	100.0	77.3	35.4	25.2	14.6	2.1	22.7	0.0
Physical sciences	100.0	86.2	68.9	2.9	13.3	1.1	13.6	0.2
Astronomy	100.0	83.7	75.5	4.1	4.1	0.0	16.3	0.0
Chemistry	100.0	89.5	70.1	2.4	16.0	0.9	10.2	0.4
Physics	100.0	82.5	66.8	3.2	11.1	1.4	17.5	0.0
Psychology	100.0	70.5	41.7	18.9	3.0	6.8	29.5	0.0
Social sciences	100.0	52.5	10.9	28.1	6.5	7.0	47.5	0.0
Engineering	100.0	80.3	31.9	7.5	38.8	2.2	19.6	0.1
Aeronautical/astronautical engineering	100.0	76.9	43.1	10.8	21.5	1.5	23.1	0.0
Chemical engineering	100.0	80.9	33.9	2.8	42.4	1.8	18.7	0.4
Civil engineering	100.0	71.2	32.6	7.9	26.6	4.1	28.8	0.0
Electrical engineering	100.0	84.3	20.9	9.9	51.3	2.2	15.7	0.0
Industrial engineering	100.0	66.7	15.3	18.1	31.9	1.4	31.9	1.4
Materials/metallurgical engineering	100.0	82.7	44.5	2.3	35.3	0.6	17.3	0.0
Mechanical engineering	100.0	81.8	41.4	5.5	32.9	2.0	18.2	0.0
Other engineering	100.0	79.3	42.2	7.0	27.3	2.7	20.7	0.0
Non-science and engineering	100.0	57.9	10.5	38.4	5.3	3.8	42.0	0.1

* = percentage < 0.05%.

[a] Includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTES: Persons of unknown citizenship are included in total but are not shown separately. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy. Non-science and engineering includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE 15. Definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2005

Sex and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States						
			Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
All recipients	27,912	19,283	18,723	5,786	7,151	2,149	3,637	553	7
Science and engineering	16,024	11,161	10,761	5,107	2,554	1,719	1,381	395	5
Science	13,740	9,604	9,251	4,696	2,321	1,102	1,132	348	5
Agricultural sciences	557	354	344	112	83	65	84	10	0
Biological sciences	4,396	3,070	2,976	2,347	261	182	186	93	1
Computer sciences	473	340	322	66	135	91	30	18	0
Earth, atmospheric, and ocean sciences	442	334	314	167	61	40	46	19	1
Mathematics	541	402	377	145	158	45	29	25	0
Physical sciences	1,900	1,354	1,290	744	133	333	80	64	0
Astronomy	120	96	89	67	9	8	5	7	0
Chemistry	1,213	884	853	472	83	258	40	31	0
Physics	567	374	348	205	41	67	35	26	0
Psychology	2,891	1,975	1,944	903	486	214	341	29	2
Social sciences	2,540	1,775	1,684	212	1,004	132	336	90	1
Engineering	2,284	1,557	1,510	411	233	617	249	47	0
Aeronautical/astronautical engineering	98	66	63	12	8	22	21	3	0
Chemical engineering	331	240	231	82	17	127	5	9	0
Civil engineering	252	183	177	43	38	58	38	6	0
Electrical engineering	566	383	377	54	60	199	64	6	0
Industrial engineering	76	49	48	2	13	25	8	1	0
Materials/metallurgical engineering	194	121	115	49	6	44	16	6	0
Mechanical engineering	323	216	209	54	42	72	41	7	0
Other engineering	444	299	290	115	49	70	56	9	0
Non-science and engineering	11,888	8,122	7,962	679	4,597	430	2,256	158	2
Male, all fields	13,573	9,611	9,265	3,021	3,240	1,389	1,615	342	4
Science and engineering	8,884	6,356	6,096	2,776	1,350	1,205	765	256	4
Science	7,079	5,102	4,881	2,472	1,165	688	556	217	4
Agricultural sciences	333	213	206	60	52	49	45	7	0
Biological sciences	2,227	1,610	1,561	1,257	117	90	97	48	1
Computer sciences	368	270	254	51	102	80	21	16	0
Earth, atmospheric, and ocean sciences	278	217	205	101	41	29	34	11	1
Mathematics	390	289	266	117	93	36	20	23	0
Physical sciences	1,338	950	902	531	87	229	55	48	0
Astronomy	86	66	61	47	6	5	3	5	0
Chemistry	767	562	540	313	47	161	19	22	0
Physics	485	322	301	171	34	63	33	21	0
Psychology	901	640	626	261	169	85	111	13	1
Social sciences	1,244	913	861	94	504	90	173	51	1
Engineering	1,805	1,254	1,215	304	185	517	209	39	0
Aeronautical/astronautical engineering	87	59	56	12	7	20	17	3	0
Chemical engineering	247	181	172	51	12	106	3	9	0
Civil engineering	173	131	128	24	28	46	30	3	0
Electrical engineering	485	332	327	44	52	175	56	5	0
Industrial engineering	59	39	38	2	13	16	7	1	0
Materials/metallurgical engineering	145	90	85	33	4	36	12	5	0
Mechanical engineering	280	189	182	48	33	63	38	7	0
Other engineering	329	233	227	90	36	55	46	6	0
Non-science and engineering	4,689	3,255	3,169	245	1,890	184	850	86	0
Female, all fields	14,337	9,670	9,457	2,764	3,911	760	2,022	210	3
Science and engineering	7,138	4,803	4,664	2,330	1,204	514	616	138	1
Science	6,660	4,501	4,369	2,223	1,156	414	576	131	1
Agricultural sciences	224	141	138	52	31	16	39	3	0

TABLE 15. Definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2005

Sex and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States						
			Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
Biological sciences	2,168	1,459	1,414	1,089	144	92	89	45	0
Computer sciences	105	70	68	15	33	11	9	2	0
Earth, atmospheric, and ocean sciences	164	117	109	66	20	11	12	8	0
Mathematics	151	113	111	28	65	9	9	2	0
Physical sciences	562	404	388	213	46	104	25	16	0
Astronomy	34	30	28	20	3	3	2	2	0
Chemistry	446	322	313	159	36	97	21	9	0
Physics	82	52	47	34	7	4	2	5	0
Psychology	1,990	1,335	1,318	642	317	129	230	16	1
Social sciences	1,296	862	823	118	500	42	163	39	0
Engineering	478	302	295	107	48	100	40	7	0
Aeronautical/astronautical engineering	11	7	7	0	1	2	4	0	0
Chemical engineering	84	59	59	31	5	21	2	0	0
Civil engineering	79	52	49	19	10	12	8	3	0
Electrical engineering	80	50	50	10	8	24	8	0	0
Industrial engineering	17	10	10	0	0	9	1	0	0
Materials/metallurgical engineering	49	31	30	16	2	8	4	1	0
Mechanical engineering	43	27	27	6	9	9	3	0	0
Other engineering	115	66	63	25	13	15	10	3	0
Non-science and engineering	7,199	4,867	4,793	434	2,707	246	1,406	72	2

[a] Includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTES: Data exclude non-U.S. citizens with temporary visas and those of unknown citizenship. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy. Non-science and engineering includes those whose field of specialization is unknown. Persons whose sex is unknown are included in total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE 16. Percentage distribution of definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2005

Sex and field	Recipients with definite plans	Location of definite plans						
		United States						
		Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
All recipients	100.0	97.1	30.0	37.1	11.1	18.9	2.9	*
Science and engineering	100.0	96.4	45.8	22.9	15.4	12.4	3.5	*
Science	100.0	96.3	48.9	24.2	11.5	11.8	3.6	0.1
Agricultural sciences	100.0	97.2	31.6	23.4	18.4	23.7	2.8	0.0
Biological sciences	100.0	96.9	76.4	8.5	5.9	6.1	3.0	*
Computer sciences	100.0	94.7	19.4	39.7	26.8	8.8	5.3	0.0
Earth, atmospheric, and ocean sciences	100.0	94.0	50.0	18.3	12.0	13.8	5.7	0.3
Mathematics	100.0	93.8	36.1	39.3	11.2	7.2	6.2	0.0
Physical sciences	100.0	95.3	54.9	9.8	24.6	5.9	4.7	0.0
Astronomy	100.0	92.7	69.8	9.4	8.3	5.2	7.3	0.0
Chemistry	100.0	96.5	53.4	9.4	29.2	4.5	3.5	0.0
Physics	100.0	93.0	54.8	11.0	17.9	9.4	7.0	0.0
Psychology	100.0	98.4	45.7	24.6	10.8	17.3	1.5	0.1
Social sciences	100.0	94.9	11.9	56.6	7.4	18.9	5.1	0.1
Engineering	100.0	97.0	26.4	15.0	39.6	16.0	3.0	0.0
Aeronautical/astronautical engineering	100.0	95.5	18.2	12.1	33.3	31.8	4.5	0.0
Chemical engineering	100.0	96.3	34.2	7.1	52.9	2.1	3.8	0.0
Civil engineering	100.0	96.7	23.5	20.8	31.7	20.8	3.3	0.0
Electrical engineering	100.0	98.4	14.1	15.7	52.0	16.7	1.6	0.0
Industrial engineering	100.0	98.0	4.1	26.5	51.0	16.3	2.0	0.0
Materials/metallurgical engineering	100.0	95.0	40.5	5.0	36.4	13.2	5.0	0.0
Mechanical engineering	100.0	96.8	25.0	19.4	33.3	19.0	3.2	0.0
Other engineering	100.0	97.0	38.5	16.4	23.4	18.7	3.0	0.0
Non-science and engineering	100.0	98.0	8.4	56.6	5.3	27.8	1.9	*
Male, all fields	100.0	96.4	31.4	33.7	14.5	16.8	3.6	*
Science and engineering	100.0	95.9	43.7	21.2	19.0	12.0	4.0	0.1
Science	100.0	95.7	48.5	22.8	13.5	10.9	4.3	0.1
Agricultural sciences	100.0	96.7	28.2	24.4	23.0	21.1	3.3	0.0
Biological sciences	100.0	97.0	78.1	7.3	5.6	6.0	3.0	0.1
Computer sciences	100.0	94.1	18.9	37.8	29.6	7.8	5.9	0.0
Earth, atmospheric, and ocean sciences	100.0	94.5	46.5	18.9	13.4	15.7	5.1	0.5
Mathematics	100.0	92.0	40.5	32.2	12.5	6.9	8.0	0.0
Physical sciences	100.0	94.9	55.9	9.2	24.1	5.8	5.1	0.0
Astronomy	100.0	92.4	71.2	9.1	7.6	4.5	7.6	0.0
Chemistry	100.0	96.1	55.7	8.4	28.6	3.4	3.9	0.0
Physics	100.0	93.5	53.1	10.6	19.6	10.2	6.5	0.0
Psychology	100.0	97.8	40.8	26.4	13.3	17.3	2.0	0.2
Social sciences	100.0	94.3	10.3	55.2	9.9	18.9	5.6	0.1
Engineering	100.0	96.9	24.2	14.8	41.2	16.7	3.1	0.0
Aeronautical/astronautical engineering	100.0	94.9	20.3	11.9	33.9	28.8	5.1	0.0
Chemical engineering	100.0	95.0	28.2	6.6	58.6	1.7	5.0	0.0
Civil engineering	100.0	97.7	18.3	21.4	35.1	22.9	2.3	0.0
Electrical engineering	100.0	98.5	13.3	15.7	52.7	16.9	1.5	0.0
Industrial engineering	100.0	97.4	5.1	33.3	41.0	17.9	2.6	0.0
Materials/metallurgical engineering	100.0	94.4	36.7	4.4	40.0	13.3	5.6	0.0
Mechanical engineering	100.0	96.3	25.4	17.5	33.3	20.1	3.7	0.0
Other engineering	100.0	97.4	38.6	15.5	23.6	19.7	2.6	0.0
Non-science and engineering	100.0	97.4	7.5	58.1	5.7	26.1	2.6	0.0
Female, all fields	100.0	97.8	28.6	40.4	7.9	20.9	2.2	*
Science and engineering	100.0	97.1	48.5	25.1	10.7	12.8	2.9	*
Science	100.0	97.1	49.4	25.7	9.2	12.8	2.9	*
Agricultural sciences	100.0	97.9	36.9	22.0	11.3	27.7	2.1	0.0

TABLE 16. Percentage distribution of definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2005

Sex and field	Recipients with definite plans	Location of definite plans						
		United States						
		Total	Postdoctoral study	Academic employment	Industry employment	Other[a]	Abroad	Unknown
Biological sciences	100.0	96.9	74.6	9.9	6.3	6.1	3.1	0.0
Computer sciences	100.0	97.1	21.4	47.1	15.7	12.9	2.9	0.0
Earth, atmospheric, and ocean sciences	100.0	93.2	56.4	17.1	9.4	10.3	6.8	0.0
Mathematics	100.0	98.2	24.8	57.5	8.0	8.0	1.8	0.0
Physical sciences	100.0	96.0	52.7	11.4	25.7	6.2	4.0	0.0
Astronomy	100.0	93.3	66.7	10.0	10.0	6.7	6.7	0.0
Chemistry	100.0	97.2	49.4	11.2	30.1	6.5	2.8	0.0
Physics	100.0	90.4	65.4	13.5	7.7	3.8	9.6	0.0
Psychology	100.0	98.7	48.1	23.7	9.7	17.2	1.2	0.1
Social sciences	100.0	95.5	13.7	58.0	4.9	18.9	4.5	0.0
Engineering	100.0	97.7	35.4	15.9	33.1	13.2	2.3	0.0
Aeronautical/astronautical engineering	100.0	100.0	0.0	14.3	28.6	57.1	0.0	0.0
Chemical engineering	100.0	100.0	52.5	8.5	35.6	3.4	0.0	0.0
Civil engineering	100.0	94.2	36.5	19.2	23.1	15.4	5.8	0.0
Electrical engineering	100.0	100.0	20.0	16.0	48.0	16.0	0.0	0.0
Industrial engineering	100.0	100.0	0.0	0.0	90.0	10.0	0.0	0.0
Materials/metallurgical engineering	100.0	96.8	51.6	6.5	25.8	12.9	3.2	0.0
Mechanical engineering	100.0	100.0	22.2	33.3	33.3	11.1	0.0	0.0
Other engineering	100.0	95.5	37.9	19.7	22.7	15.2	4.5	0.0
Non-science and engineering	100.0	98.5	8.9	55.6	5.1	28.9	1.5	*

* = percentage < 0.05%.

[a] Includes government, nonprofit, elementary/secondary school, other and unknown employer, and unknown plans.

NOTES: Data exclude non-U.S. citizens with temporary visas and those of unknown citizenship. Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social sciences and not in humanities, and public administration is included in social sciences and not in professional fields, according to National Science Foundation taxonomy. Non-science and engineering includes those whose field of specialization is unknown.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE 17. Science and engineering doctorate recipients indicating one or more disabilities, by field: 2005

Field	One or more disabilities of any type		Blind/visually impaired		Deaf/hard of hearing		Learning/cognitive disability		Physical/orthopedic disability		Vocal/speech disability		Other/ unspecified disability	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All fields	622	1.4	46	0.1	66	0.2	159	0.4	188	0.4	14	0.0	149	0.3
Science and engineering	307	1.1	24	0.1	40	0.1	89	0.3	86	0.3	14	0.1	54	0.2
Agricultural/biological sciences	76	1.0	D	D	12	0.2	27	0.4	19	0.3	D	D	8	0.1
Mathematics/computer sciences	19	0.8	D	D	D	D	D	D	D	D	D	D	D	D
Physical sciences[a]	38	1.0	D	D	D	D	14	0.4	9	0.2	D	D	D	D
Social sciences/psychology	139	1.9	10	0.1	15	0.2	35	0.5	43	0.6	D	D	33	0.4
Engineering	35	0.5	D	D	6	0.1	9	0.1	11	0.2	D	D	D	D
Non-science and engineering	315	2.0	22	0.1	26	0.2	70	0.5	102	0.7	D	D	95	0.6

D = cell value suppressed to protect confidentiality of doctorate recipients.

[a] Includes earth, atmospheric, and ocean sciences.

NOTES: Individual doctorate recipients could report more than one disability.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

Appendix A. 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. Graduate schools are responsible for submitting completed forms and for sending them to be compiled in the Doctorate Records File.

Key variables of the survey include the following:

- Academic institution attended
- Citizenship status at graduation
- Country of birth
- Country of citizenship
- Birth year
- Disability status
- Educational attainment of parents
- Educational history after high school
- Field of degree specialty (N = 287)
- Field of employment
- Financial support (e.g., fellowship, research assistantship)
- Kind of academic institution that conferred degree (e.g., Carnegie classification, size, public or private)
- Kind of employment planned (e.g., postdoctoral appointment, employment sector)
- Marital status
- Number of dependents
- Place of birth
- Postgraduation plans
- Race and Hispanic ethnicity (by subgroup)
- Sex
- Work activity planned after doctoral degree

The race and ethnicity questions on the survey form were revised in 2001. For the years 2001 and later, the data in the "Asian" category excludes the "Native Hawaiian/other Pacific Islander" category; Native Hawaiians/other Pacific Islanders are included in the "other/unknown" category; and multiple race/ethnicity response data are included in the other/unknown race/ethnicity response data. Data in the "Cuban" category are combined with those in the "other Hispanic" category.

Data Collection

The population for the 2005 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 30 June 2005. The total universe consisted of 43,354 persons in over 400 institutions that conferred research doctorates in 2005.

Survey instruments were mailed to institutional coordinators in eligible graduate schools who then distributed the survey forms to individuals receiving a research doctorate. The institutional coordinators collected the forms and returned them to the survey contractor for editing and processing. The contractor also performed a

follow-up if critical items or forms were missing.

Because the survey collects a complete college education history, and one-third of doctorate recipients from U.S. universities are from foreign countries, coding of institutions is very important. Institutional coding for the SED is done using a coding manual for foreign institutions of higher education developed by the U.S. Department of Education entitled *Mapping the World of Education: The Comparative Database System,* volume 1 (available at http://www.nsf.gov/statistics/mapping/).

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

Nonresponse

Of the 43,354 new research doctorates granted in academic year 2005, 92.1 percent of degree recipients returned their completed survey instruments. Limited records (containing field of study, doctoral 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 26 percent of the total nonrespondents.

Item nonresponse rates in 2005 for the most frequently used variables ranged from 0.1 percent for sex to 7.4 percent for postgraduation location. No imputation was performed for missing data items.

Key variable	Item response rate (%)
Sex	99.9
Citizenship	94.0
Country of citizenship of non-U.S. citizens	93.5
Race/ethnicity	93.5
Postgraduation location (U.S. or foreign)	92.6

A complete quality profile for the 2005 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 in the SED data file (Doctorate Records 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 NSF website at http://www.nsf.gov/statistics/doctorates/. These reports focus on science and engineering fields of study. (A list showing how fields of study are grouped for this report is in appendix B.) 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; Science and Engineering Indicators;* and *Women, Minorities, and Persons With Disabilities in Science and Engineering;* and in special occasional publications, such as *Undergraduate Origins of Recent (1991–95) Science and Engineering Doctorate Recipients* (NSF 96-334), all of which are available at http://www.nsf.gov/statistics/.

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 agencies in 2005). The report is available on the Web at http://www.norc.uchicago.edu/issues/docdata.htm. Also new in 2006 is the publication of the interagency report entitled *U.S. Doctorates in the 20th Century*, which provides an overview of the development of the American system of doctoral education from 1900 to 1999, available at http://www.nsf.gov/statistics/nsf06319/.

Selected summary data from this survey are available by institution from the NSF WebCASPAR database at http://webcaspar.nsf.gov. Access to restricted data for researchers interested in analyzing microdata can be arranged through a licensing agreement.

Appendix B. Fields of Study

Science

Biological and agricultural sciences

Agricultural sciences

- Agronomy/crop science
- Animal breeding/genetics
- Animal nutrition
- Animal sciences, other
- Conservation/renewable natural resources
- Dairy science[a]
- Environmental science
- Fisheries science/management
- Food engineering
- Food sciences, other
- Forest biology
- Forest engineering[a]
- Forest management
- Forestry and related sciences, other
- Horticulture science
- Plant breeding/genetics
- Plant pathology
- Plant sciences, other
- Poultry science
- Soil chemistry/microbiology
- Soil sciences, other
- Wildlife/range management
- Wood science and pulp/paper technology
- Agricultural sciences, general
- Agricultural sciences, other

Biological sciences

- Anatomy
- Bacteriology
- Biochemistry
- Biological immunology
- Biomedical sciences
- Biometrics/biostatistics
- Biophysics
- Biotechnology research
- Botany, other
- Cell biology
- Developmental biology/embryology
- Ecology
- Endocrinology
- Entomology
- Human/animal genetics
- Human/animal pathology
- Human/animal pharmacology
- Human/animal physiology
- Microbiology
- Molecular biology
- Neuroscience

Nutritional sciences
Parasitology
Plant genetics
Plant pathology
Plant physiology
Toxicology
Zoology, other
Biological sciences, general
Biological sciences, other

Earth, atmospheric, and ocean sciences

Atmospheric sciences

Atmospheric dynamics
Atmospheric physics/chemistry
Meteorology
Atmospheric sciences/meteorology, general
Atmospheric sciences/meteorology, other

Earth sciences

Geochemistry
Geology
Geomorphology/glacial geology
Geophysics/seismology
Hydrology/water resources
Mineralogy/petrology
Paleontology
Stratigraphy/sedimentation
Geological and related sciences, general
Geological and related sciences, other

Ocean sciences

Marine sciences
Oceanography

Mathematics/computer sciences

Computer sciences

Computer science
Information science/systems
Computer and information science, other[b]

Mathematics

Algebra
Analysis/functional analysis
Applied mathematics
Computing theory
Geometry
Logic
Mathematical statistics
Number theory
Operations research
Topology
Mathematics, general
Mathematics, other

Physical sciences

Astronomy

- Astronomy
- Astrophysics

Chemistry

- Analytical chemistry
- Inorganic chemistry
- Medicinal/pharmaceutical chemistry
- Nuclear chemistry[a]
- Organic chemistry
- Physical chemistry
- Polymer chemistry
- Theoretical chemistry
- Chemistry, general
- Chemistry, other

Physics

- Acoustics
- Applied physics[c]
- Biophysics[c]
- Chemical and atomic/molecular physics
- Elementary particle physics
- Fluids physics[a]
- Nuclear physics
- Optics
- Plasma/high-temperature physics
- Polymer physics
- Solid state/low-temperature physics
- Physics, general
- Physics, other

Psychology

- Clinical psychology
- Cognitive psychology/psycholinguistics
- Comparative psychology
- Counseling
- Developmental/child psychology
- Educational psychology
- Experimental psychology
- Family/marriage counseling
- Human/individual family development
- Industrial/organizational psychology
- Personality
- Physiological/psychobiology
- Psychometrics[a]
- Quantitative psychology
- School psychology
- Social psychology
- Psychology, general
- Psychology, other

Social Sciences

Economics

Agricultural economics
Econometrics
Economics

Political science

International relations/affairs
Political science/government
Public administration
Public policy analysis

Sociology

Demography/population studies
Sociology

Other social sciences

American studies
Anthropology
Archaeology
Area studies
Criminology
Geography
History/philosophy of science and technology
Linguistics
Statistics
Urban affairs and studies
Social sciences, general
Social sciences, other

Engineering

Aeronautical and astronautical engineering

Chemical engineering

Chemical engineering
Petroleum engineering
Polymer/plastics engineering

Civil engineering

Civil engineering
Environmental health

Electrical engineering

Communications
Computer engineering
Electrical/electronics engineering

Industrial/manufacturing engineering

Materials/metallurgical engineering

Ceramic sciences
Materials science
Metallurgical engineering

Mechanical engineering

Engineering mechanics
Mechanical engineering

Other engineering

Agricultural engineering
Bioengineering/biomedical engineering
Engineering physics
Engineering science
Mining/mineral engineering
Nuclear engineering
Ocean engineering
Operations research
Systems engineering
Engineering, general
Engineering, other

Non-Science and Engineering

Education

Counseling education/counseling and guidance services
Curriculum/instruction
Educational administration/supervision
Educational assessment/test measurement
Educational evaluation/research
Educational leadership
Educational psychology
Educational statistics/research methods
Educational/instructional media design
School psychology
Social/philosophical foundations of education
Special education

Teacher education

Adult/continuing
Elementary
Pre-elementary/early childhood
Secondary

Teaching fields

Agricultural education
Art education
Business education
English education
Foreign languages education
Health education
Home economics education
Mathematics education
Music education
Physical education/coaching
Reading education
Science education
Social science education
Teacher education, specific academic and vocational programs, other

Technical education
Technical/industrial arts education
Trade/industrial education

Other education

Education, general
Education, other

Health

Environmental health
Epidemiology
Exercise physiology/science, kinesiology
Health systems/service administration
Nursing
Pharmacy
Public health
Rehabilitation/therapeutic services
Speech/language pathology, audiology
Veterinary science
Health sciences, general
Health sciences, other

Humanities

Foreign languages/literature

Arabic
Chinese
French
German
Hebrew
Italian
Japanese
Russian
Slavic (other than Russian)
Spanish
Other languages and literature

History

History, American
History, Asian
History, European
History, general
History, other

Letters

Classics
Comparative literature
English language
Literature, American
Literature, English
Speech/rhetorical studies
Letters, general
Letters, other

Other humanities

Art history/criticism/conservation
Drama/theater arts
Music
Philosophy
Religion
Humanities, general
Humanities, other

Professional/other

Business management/administrative services

Accounting
Banking/financial support services
Business administration/management
Business/managerial economics
Management information systems/business data processing

Data processing

Marketing management/research
Operations research
Organizational behavior
Business management/administrative services, general
Business management/administrative services, other

Information fields

Communication theory
Communications research
Mass communications
Communications, general
Communications, other

Other professional fields

Architectural/environmental design
Home economics
Law
Library science
Parks/recreation/leisure/fitness
Social work
Theology/religious education
Professional fields, general
Professional fields, other

Footnotes

[a] This subfield dropped in 2004.

[b] This subfield introduced in 2001.

[c] This subfield introduced in 2004.

Appendix C. Survey Questionnaire

Please print your name in full:

First Name	Middle Name	Last Name	Suffix (e.g., Jr.)

Cross reference: Birth name or former name legally changed

Name of Doctoral Institution	City or Branch

Type of Doctoral Degree (e.g., Ph.D., Ed.D., D.B.A.)	Date Degree Granted (mm/yyyy)

Survey of Earned Doctorates

July 1, 2004, to June 30, 2005

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. Your Social Security Number is also solicited under the NSF Act of 1950, as amended; provision of it is voluntary. It will be kept confidential. It is used for quality control, to assure that we identify the correct persons, especially when data are used for statistical purposes in Federal program evaluation. 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.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 19 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. A Federal agency may not conduct or sponsor a collection of information unless it displays a currently valid OMB control number.

OMB No.: 3145-0019
Approval Expires 04/30/2006

INSTRUCTIONS

Thank you for taking the time to complete this questionnaire. Directions are provided for each question.

- **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."**

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. Please write the name of the primary field of your dissertation research.

Name of Field _____

Using the list on page 7, choose the code that best describes the primary field of your dissertation research.

Number of Field ☐☐☐

If your dissertation research was interdisciplinary, list the name and number of your secondary field.

Name of Field _____

Number of Field ☐☐☐

If there were more than two fields, please continue on the back cover of the questionnaire (p. 8).

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

_____

Department/Committee/Center/Institute/Program

A4. 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 but less than full
4 ☐ full tuition remission

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

Mark ALL that apply

a. ☐ Fellowship, scholarship
b. ☐ Grant, stipend
c. ☐ Teaching assistantship
d. ☐ Research assistantship
e. ☐ Other assistantship
f. ☐ Traineeship
g. ☐ Internship, clinical residency
h. ☐ Loans (from any source)
i. ☐ Personal savings
j. ☐ Personal earnings during graduate school (other than sources listed above)
k. ☐ Spouse's, partner's, or family earnings or savings
l. ☐ Employer reimbursement/assistance
m. ☐ Foreign (non-U.S.) support
n. ☐ Other - Specify

_____

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

Enter letters of primary and secondary sources

1 ☐ Primary source of support
2 ☐ Secondary source of support
☐ *Mark (X) if no secondary source*

A7. 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	☐ None	0	☐ None
1	☐ $10,000 or less	1	☐ $10,000 or less
2	☐ $10,001 - $20,000	2	☐ $10,001 - $20,000
3	☐ $20,001 - $30,000	3	☐ $20,001 - $30,000
4	☐ $30,001 - $40,000	4	☐ $30,001 - $40,000
5	☐ $40,001 - $50,000	5	☐ $40,001 - $50,000
6	☐ $50,001 or more	6	☐ $50,001 or more

A8. The next few questions ask about the degrees you have received. Starting with this doctorate degree, please provide the following information for the most recent master's degree and your first bachelor's degree.

	This research doctorate degree	Most recent master's degree (e.g. MS, MA, MBA) or equivalent	First bachelor's degree (e.g. BA, BS, AB) or equivalent
a. Have you received a degree of this type?	Yes [X] No [ ]	Yes [ ] No [ ]	Yes [ ] No [ ]
b. Month/year that you started your degree	Month [ ][ ] Year [ ][ ][ ][ ]	Month [ ][ ] Year [ ][ ][ ][ ]	Month [ ][ ] Year [ ][ ][ ][ ]
c. Month/year of degree award	Month [ ][ ] Year [ ][ ][ ][ ]	Month [ ][ ] Year [ ][ ][ ][ ]	Month [ ][ ] Year [ ][ ][ ][ ]
d. Primary field of study			
e. Field number from list on p. 7	[ ][ ][ ]	[ ][ ][ ]	[ ][ ][ ]
f. Institution name			
g. Branch or city			
h. State or province			
i. Country	USA		

A9. Excluding those above, have you attained any additional postsecondary degrees? Yes [ ] No [ ]

A10. Was a master's degree a prerequisite for admission to your doctoral program? Yes [ ] No [ ]

A11. In what year did you first enter graduate school in any program or capacity, in any university? Year [ ][ ][ ][ ]

A12. How many years were you taking courses or preparing for exams for this doctoral degree (including a master's degree, if that was a part of your doctoral program)? Years [ ][ ]

Round to whole years

A13. After coursework and exams, how many years did you work on your dissertation (non-course related preparation or research, writing, and defense)? Years [ ][ ]

Round to whole years

If yes, please list the additional degree(s), granting institution(s), and years.

Degree Type _____
Degree Field _____
Year Granted _____
Institution _____
Branch or City _____
State or Country _____

Degree Type _____
Degree Field _____
Year Granted _____
Institution _____
Branch or City _____
State or Country _____

If necessary, please continue this list on the back cover (p.8).

A14. Did you earn college credit from a community or two-year college?

1 ☐ Yes
2 ☐ No

A15. Are you earning, or have you earned, a professional medical or dental degree (e.g. MD, DDS), in addition to the doctorate?

1 ☐ Yes
2 ☐ No

PART B - Postgraduation Plans

B1. In what country or state do you intend to live after graduation (within the next year)?

0 ☐ in U.S. → State

1 ☐ not in U.S. → Country

B2. Do you intend to take a "postdoc" position?
(A "postdoc" is a temporary position primarily for gaining additional education and training in research, usually awarded in academe, industry, or government.)

1 ☐ Yes
2 ☐ No

B3. What is the status of your postgraduate plans (in the next year)?
Mark (X) one

0 ☐ Returning to, or continuing in, predoctoral employment
1 ☐ Have signed contract or made definite commitment for other work or study
→ **GO TO B4**

2 ☐ Negotiating with one or more specific organizations
3 ☐ Seeking position but have no specific prospects
4 ☐ Do not plan to work or study
5 ☐ Other - Specify
→ **SKIP TO C1**

B4. What best describes your (within the next year) postgraduate plans?
Mark (X) one

FURTHER TRAINING OR STUDY

0 ☐ Postdoctoral fellowship
1 ☐ Postdoctoral research associateship
2 ☐ Traineeship
3 ☐ Intern, clinical residency
4 ☐ Other - Specify
→ **GO TO B5**

EMPLOYMENT

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

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
1 ☐ Industry/Business
2 ☐ College or university
3 ☐ Private foundation
4 ☐ Nonprofit, other than private foundation or college
5 ☐ Other - Specify
6 ☐ Unknown

B6. For what type of employer will you be working or in training 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. university-affiliated research institute
d. ☐ U.S. community college or technical institute
e. ☐ U.S. preschool, elementary, middle, secondary school or school system
f. ☐ Foreign educational institution

GOVERNMENT (other than education institution)

g. ☐ Foreign government
h. ☐ U.S. federal government
i. ☐ U.S. state government
j. ☐ U.S. local government

PRIVATE SECTOR (other than education institution)

k. ☐ Not for profit organization
l. ☐ Industry or business (for profit)

OTHER

m. ☐ Self-employed
n. ☐ Other - Specify

B7. Please name the organization and geographic location where you will work or study.

Name

State (if U.S.)

OR

Country (if not U.S.)

B8. What will be your primary and secondary work activities?

Mark (X) one in each column

	a. Primary	b. Secondary
Research and development	1 ☐	1 ☐
Teaching	2 ☐	2 ☐
Management or administration	3 ☐	3 ☐
Professional services to individuals	4 ☐	4 ☐
Other - Specify	5 ☐	5 ☐

☐ *Mark (X) if no secondary work activities.*

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
5 ☐ Divorced
6 ☐ 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 financial support from you?

☐ *Mark (X) box if none*

	Number
5 years of age or younger	
6 to 18 years	
19 years or older	

C4. What is the highest educational attainment of your mother and father (or guardians)?

Mark (X) one for each parent

	a. Mother	b. Father
Less than high/secondary school graduate	1 ☐	1 ☐
High/secondary school graduate	2 ☐	2 ☐
Some college	3 ☐	3 ☐
Bachelor's degree	4 ☐	4 ☐
Master's degree (e.g., MA, MS, MBA, MSW, etc.)	5 ☐	5 ☐
Professional degree (e.g., JD, LLB, D.Min, MD, DDS, etc.)	6 ☐	6 ☐
Doctoral degree	7 ☐	7 ☐
Not applicable	8 ☐	8 ☐

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 ☐ Since birth
1 ☐ Naturalized

→ **SKIP TO C9**

NON-U.S. CITIZEN

2 ☐ With a Permanent U.S. Resident Visa ("Green Card")
3 ☐ With a Temporary U.S. Visa

→ **GO TO C8**

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. 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. Which of the following best describes your Hispanic origin or descent?

Mark (X) one

1 ☐ Mexican 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 (if applicable), and telephone number where you can be reached.

E-mail address

Daytime telephone

C17. Please provide your address and the name and address of a person who is likely to know where you can be reached.

Current Address

Street Address

City State Country Zip or Postal Code

Contact Person

First Name Last Name

Street Address

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 results of this survey will be published in a Summary Report; the Summary Reports on earlier surveys are 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 this questionnaire to your GRADUATE SCHOOL 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.

FIELD OF STUDY

INSTRUCTIONS: The following field listing is to be used in responding to items A2 and A8. Please choose the code that best describes the name of your field.

AGRICULTURAL SCIENCES/NATURAL RESOURCES
000 Agri. Economics
005 Agricultural Animal Breeding
010 Animal Nutrition
014 Poultry Science
019 Animal Sci., Other
020 Agronomy & Crop Science
025 Agric. & Hort. Plant Breeding
030 Plant Pathology/ Phytopathology
039 Plant Sciences, Other
043 Food Science
044 Food Science and Technology, Other
046 Soil Chemistry/ Microbiology
049 Soil Sciences, Other
050 Horticulture Science
055 Fishing and Fisheries Sciences/Mgt.
066 Forest Sciences and Biology
070 Forest/Resources Mgt.
072 Wood Science & Pulp/Paper Tech.
074 Natural Resources/ Conservation
079 Forestry & Related Science, Other
080 Wildlife/Range Management
081 Environmental Science
098 Agriculture, General
099 Agricultural Sci., Other

BIOLOGICAL/ BIOMEDICAL SCIENCES
100 Biochemistry (see 539)
103 Biomedical Sciences
105 Biophysics (see 565)
107 Biotechnology
110 Bacteriology
115 Plant Genetics
120 Plant Pathology/ Phytopathology
125 Plant Physiology
129 Botany/Plant Biology
130 Anatomy
133 Biometrics & Biostatistics
136 Cell/Cellular Biology and Histology
139 Ecology
142 Developmental Biology/Embryology
145 Endocrinology
148 Entomology
151 Immunology
154 Molecular Biology
157 Microbiology
160 Neuroscience
163 Nutrition Sciences
166 Parasitology
169 Toxicology
170 Genetics, Human & Animal
175 Pathology, Human & Animal
180 Pharmacology, Human & Animal
185 Physiology, Human & Animal
189 Zoology, Other
198 Biology/Biological Sciences, General
199 Biology/Biomed Sci, Other

HEALTH SCIENCES
200 Speech-Lang. Pathology & Audiology
210 Environmental Health
211 Environmental Toxicology
212 Health Systems/ Service Administration
215 Public Health
220 Epidemiology
222 Kinesiology/Exercise Sci
230 Nursing Science
240 Pharmacy
245 Rehabilitation/ Therapeutic Services
250 Veterinary Medicine
298 Health Sciences, General
299 Health Sciences, Other

ENGINEERING
300 Aerospace, Aeronautical & Astronautical
303 Agricultural
306 Bioengineering & Biomedical
309 Ceramic Sciences
312 Chemical
315 Civil
318 Communications
321 Computer
324 Electrical, Electronics and Communications
327 Engineering Mechanics
330 Engineering Physics
333 Engineering Science
336 Environmental Health Engineering
339 Industrial & Manufacturing
342 Materials Science
345 Mechanical
348 Metallurgical
351 Mining & Mineral
357 Nuclear
360 Ocean
363 Operations Research (See also 465, 930)
366 Petroleum
369 Polymer & Plastics
372 Systems
398 Engineering, General
399 Engineering, Other

COMPUTER & INFORMATION SCIENCES
400 Computer Science
410 Information Science & Systems
419 Computer & Information Science, Other

MATHEMATICS
420 Applied Mathematics
425 Algebra
430 Analysis & Functional Analysis
435 Geometry/Geom. Anal.
440 Logic
445 Number Theory
450 Statistics (See also 690)
455 Topology/Found.
460 Computing Theory & Practice
465 Operations Research (See also 363, 930)
498 Math/Stat, General
499 Math/Stat, Other

PHYSICAL SCIENCES
Astronomy
500 Astronomy
505 Astrophysics

Atmospheric Sci. & Meteorology
510 Atmospheric Chemistry and Climatology
512 Atmospheric Physics and Dynamics
514 Meteorology
518 Atmospheric Science/ Meteorology, General
519 Atmospheric Science/ Meteorology, Other

Chemistry
520 Analytical
522 Inorganic
526 Organic
528 Medicinal/ Pharmaceutical
530 Physical
532 Polymer
534 Theoretical
538 Chemistry, General
539 Chemistry, Other (See also 100)

Geological & Earth Sciences
540 Geology
542 Geochemistry
544 Geophysics & Seismology
546 Paleontology
548 Mineralogy & Petrology
550 Stratigraphy & Sedimentation
552 Geomorphology & Glacial Geology
558 Geological and Earth Sciences, General
559 Geological and Earth Sciences, Other

Physics
560 Acoustics
561 Atomic/Molec/Chem
564 Particle (Elem)
565 Biophysics (see 105)
568 Nuclear Physics
569 Optics/Phototonics
570 Plasma/Fusion
572 Polymer
574 Condensed Matter/Low Temp
576 Applied Physics
578 Physics, General
579 Physics, Other

Ocean/Marine Sciences
585 Hydrology & Water Resources
590 Oceanography, Chemical and Physical
595 Marine Sciences
599 Ocean/Marine, Other

PSYCHOLOGY
600 Clinical
603 Cognitive & Psycholinguistics
606 Comparative
609 Counseling
612 Developmental & Child
613 Human Devlpmt. & Family Studies
615 Experimental
618 Educational (See also 822)
620 Family Psychology
621 Industrial & Organizational (See also 935)
624 Personality
627 Physiological/ Psychobiology
633 Psychometrics and Quantitative Psychology
636 School (See also 825)
639 Social
648 Psychology, General
649 Psychology, Other

SOCIAL SCIENCES
650 Anthropology
652 Area Studies
658 Criminology
662 Demography/ Population Studies
666 Economics
668 Econometrics
670 Geography
674 International Relations/Affairs
678 Political Science & Government
682 Public Policy Analysis
686 Sociology
690 Statistics (See also 450)
694 Urban Affairs/Studies
698 Social Sciences, General
699 Social Sciences, Other

HUMANITIES
History
700 History, American
703 History, Asian
705 History, European
706 History, African
707 History, Latin American
710 History/Philosophy of Science & Technolog
718 History, General
719 History, Other

Letters
720 Classics
723 Comparative Literature
724 Folklore
729 Linguistics
732 Literature, American
733 Literature, English
734 English Language
736 Speech & Rhetorical Studies
738 Letters, General
739 Letters, Other

Foreign Languages & Literature
740 French
743 German
746 Italian
749 Spanish
752 Russian
755 Slavic (other than Russian)
758 Chinese
762 Japanese
768 Arabic
769 Other Languages & Literature

Other Humanities
770 American/U.S. Studies
773 Archeology
776 Art History/Criticism/ Conservation
780 Music
785 Philosophy
790 Religion/Religious Studies (See also 984)
795 Drama/Theater Arts
798 Humanities, General
799 Humanities, Other

EDUCATION
800 Curriculum & Instruction
805 Educ. Administration & Supervision
807 Educ. Leadership
810 Educ./Instructional Media Design
815 Educ. Statistics/ Research Methods
820 Educ. Assessment/ Testing/Measure
822 Educ. Psychology (See also 618)
825 School Psychology (See also 636)
830 Social/Philosophical Foundations of Educ.
835 Special Educ.
840 Counseling Educ./ Counseling & Guidanc
845 Higher Educ./ Evaluation & Research

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

Teaching Fields
860 Agricultural Education
861 Art Education
862 Business Education
864 English Education
866 Foreign Languages Education
868 Health Education
870 Family & Consumer Sci./Home Economics
874 Math. Education
876 Music Education
878 Nursing Education
880 Physical Education & Coaching
882 Reading Education
884 Science Education
885 Social Science Education
887 Trade & Ind. Educ.
889 Teach Educ. & Prof Dev.

Other Education
898 Education, General
899 Education, Other

PROFESSIONAL FIELDS
Business Mgmt./Administrative Services
900 Accounting
905 Banking/Financial Support Services
910 Business Admin. & Management
915 Business/Managerial Economics
916 International Business/Trade/ Commerce
917 Mgmt. Information Systems/Business Data
920 Marketing Management & Research
921 Human Resources Development
930 Operations Research (See also 363, 465)
935 Organiz. Behavior (See also 621)
938 Business Mgmt./ Administration Serv., General
939 Business Mgmt./ Administration Serv., Other

Communications
940 Communications Research
947 Mass Communication/ Media Studies
957 Communication Theory
958 Communications, General
959 Communications, Other

Other Professional Fields
960 Architec. Environ. Design
964 Family/Consumer Sci./Human Sci., General
968 Law
972 Library Science
974 Parks/Sports/Rec./ Leisure/Fitness
976 Public Administration
980 Social Work
984 Theo./Religious Education (See also 790)
989 Prof. Fields, Other

Other Fields
999 Other Fields

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 T. Carlson
National Science Foundation

Additions to Questions

A2 (continued)

Name of Field

Number of Field

Name of Field

Number of Field

A9 (continued)

Degree Type	_____	Degree Type	_____
Degree Field	_____	Degree Field	_____
Year Granted	_____	Year Granted	_____
Institution	_____	Institution	_____
Branch or City	_____	Branch or City	_____
State or Country	_____	State or Country	_____

Comments about the Survey

Please return this questionnaire to your GRADUATE SCHOOL 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

Suggested Citation, Acknowledgments

National Science Foundation, Division of Science Resources Statistics. 2006. *Science and Engineering Doctorate Awards: 2005*. NSF 07-305. Susan T. Hill, project officer. Arlington, VA.

QRC division of Macro International Inc. (ORC Macro), Bethesda, MD, prepared the tables and report copy. ORC Macro staff members who worked on this report were Cheryl Lloyd, Laura Williams, Cindy Young-Turner, Gail H. Henry, and Mark Morgan.

Division of Science Resources Statistics

Lynda T. Carlson	Mary J. Frase
Division Director	*Deputy Director*
Ronald S. Fecso	Nancy L. Leach
Chief Statistician	*Program Director, Human Resources Statistics Program*

Division of Science Resources Statistics (SRS)
The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: (703) 292-8780, FIRS: (800) 877-8339 | TDD: (800) 281-8749