

Science and Engineering Doctorate Awards: 2004

Detailed Statistical Tables

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GENERAL NOTES

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

The SED is conducted annually for the National Science Foundation (NSF) and five other federal agencies (NEH, NIH, USDA, USED, NASA). 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*. 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.

Almost 91 percent of doctorate recipients in 2004 responded to the questionnaire. Over the period 1995–2004, 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>.

DETAILED STATISTICAL TABLES

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TABLE 1. Doctorates awarded, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	41,750	42,439	42,541	42,647	41,092	41,365	40,824	39,989	40,770	42,155
Science and engineering	26,536	27,241	27,232	27,278	25,933	25,966	25,548	24,588	25,289	26,275
Science	20,528	20,932	21,117	21,354	20,603	20,645	20,043	19,512	20,011	20,499
Biological/agricultural sciences	6,493	6,842	6,867	6,955	6,647	6,892	6,666	6,699	6,758	6,983
Agricultural sciences	1,117	1,118	1,078	1,110	1,065	1,038	975	1,009	1,061	1,046
Agronomy/crop science	114	110	77	97	106	70	75	74	55	63
Animal breeding/genetics	19	12	24	18	21	22	16	14	21	12
Animal nutrition	50	54	55	45	47	45	45	49	41	47
Animal sciences, other	85	90	62	60	70	73	71	70	88	76
Conservation/renewable natural resources	24	13	17	25	25	19	32	27	47	45
Dairy science ^a	14	9	14	10	12	9	2	7	18	NA
Environmental science	81	83	96	73	99	95	119	112	137	132
Fisheries science/management	49	46	45	30	38	43	44	53	47	37
Food engineering	7	7	11	13	7	10	14	7	11	95
Food sciences, other	135	142	175	153	137	142	130	130	157	74
Forest biology	24	19	22	20	14	22	27	19	16	36
Forest engineering ^a	4	0	13	2	1	3	0	3	3	NA
Forest management	20	22	21	27	17	13	13	16	18	27
Forestry and related sciences, other	71	55	50	69	50	54	48	56	47	34
Horticulture science	67	73	44	60	66	55	37	46	54	45
Plant breeding/genetics	72	63	67	69	44	68	37	59	50	36
Plant pathology	52	90	65	66	66	63	52	53	48	55
Plant sciences, other	30	21	20	37	38	29	26	27	29	36
Poultry science	11	11	9	11	8	9	11	10	18	21
Soil chemistry/microbiology	27	29	32	27	29	26	23	29	24	20
Soil sciences, other	72	78	56	74	67	64	56	55	50	53
Wildlife/range management	50	64	50	56	44	56	41	37	46	40
Wood science and pulp/paper technology	26	18	25	25	21	11	20	29	19	19
Agricultural sciences, general	6	5	10	8	8	10	2	4	2	6
Agricultural sciences, other	7	4	18	35	30	27	34	23	15	37
Biological sciences	5,376	5,724	5,789	5,845	5,582	5,854	5,691	5,690	5,697	5,937
Anatomy	64	47	50	35	33	39	29	20	33	13
Bacteriology	13	16	13	13	13	15	17	12	6	15
Biochemistry	824	794	832	800	760	776	728	781	772	702
Biological immunology	190	238	214	245	223	239	266	278	261	344
Biomedical sciences	93	141	158	182	176	155	155	220	182	184
Biometrics/biostatistics	67	80	84	75	76	92	90	82	84	100
Biophysics	155	142	147	166	173	164	162	151	161	130
Biotechnology research	4	6	11	12	19	14	9	13	24	26
Botany, other	102	105	91	113	67	92	75	84	80	134
Cell biology	236	233	251	300	281	337	315	302	302	292
Developmental biology/embryology	64	96	115	127	108	111	107	93	126	141
Ecology	203	245	255	293	273	296	338	312	348	366
Endocrinology	20	24	17	30	19	20	18	14	21	22
Entomology	121	136	123	138	114	137	90	113	111	108
Human/animal genetics	202	212	217	197	216	228	198	225	226	256
Human/animal pathology	109	135	106	90	120	106	116	115	101	98
Human/animal pharmacology	278	316	300	255	254	267	257	268	275	285
Human/animal physiology	262	275	227	258	244	241	216	208	214	205
Microbiology	426	444	410	383	383	382	396	382	363	391
Molecular biology	617	651	775	736	716	707	709	622	615	724
Neuroscience	308	404	437	413	431	495	485	489	472	584
Nutritional sciences	136	142	124	139	102	150	135	141	127	133
Parasitology	14	22	17	15	13	19	22	17	15	20
Plant genetics	35	41	30	40	31	35	31	57	38	54
Plant pathology	32	38	33	18	36	25	31	24	27	26

TABLE 1. Doctorates awarded, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Plant physiology	55	73	47	61	54	39	45	43	32	25
Toxicology	126	138	180	155	114	123	133	122	122	107
Zoology, other	145	100	97	111	126	133	103	122	127	96
Biological sciences, general	348	292	209	217	182	200	194	184	195	190
Biological sciences, other	127	138	219	228	225	217	221	196	237	166
Earth, atmospheric, and ocean sciences	699	711	782	741	706	663	630	673	646	672
Atmospheric sciences	130	125	149	125	124	143	116	117	139	126
Atmospheric dynamics	16	21	25	24	17	17	17	13	21	33
Atmospheric physics/chemistry	27	22	45	38	43	39	33	39	39	29
Meteorology	25	35	28	25	22	34	20	15	25	22
Atmospheric sciences/meteorology, general	44	33	36	22	32	36	34	27	33	24
Atmospheric sciences/meteorology, other	18	14	15	16	10	17	12	23	21	18
Earth sciences	454	452	489	504	452	386	393	428	374	420
Geochemistry	42	49	49	58	55	49	41	70	53	38
Geology	186	162	165	171	157	123	115	132	119	98
Geomorphology/glacial geology	11	11	26	20	18	14	10	16	20	22
Geophysics/seismology	93	101	108	106	100	70	88	91	75	87
Hydrology/water resources	24	31	43	35	32	43	45	35	26	49
Mineralogy/petrology	19	23	19	14	14	5	15	13	8	17
Paleontology	20	14	23	23	15	31	16	22	18	25
Stratigraphy/sedimentation	16	12	23	24	17	13	13	7	16	19
Geological and related sciences, general	21	27	16	13	9	20	16	12	9	23
Geological and related sciences, other	22	22	17	40	35	18	34	30	30	42
Ocean sciences	115	134	144	112	130	134	121	128	133	126
Marine sciences	32	27	30	18	30	35	36	42	36	59
Oceanography	83	107	114	94	100	99	85	86	97	67
Mathematics/computer sciences	2,187	2,042	2,032	2,104	1,939	1,909	1,833	1,725	1,859	2,024
Computer sciences	997	920	909	927	856	859	826	807	865	949
Computer science	913	836	828	821	741	722	688	673	698	768
Information science/systems	84	84	81	106	114	137	81	79	65	106
Computer and information science, other ^b	NA	NA	NA	NA	1	NA	57	55	102	75
Mathematics	1,190	1,122	1,123	1,177	1,083	1,050	1,007	918	994	1,075
Algebra	82	78	78	75	84	82	68	65	69	97
Analysis/functional analysis	99	100	103	130	86	81	91	74	85	99
Applied mathematics	211	230	242	265	252	238	214	225	223	264
Computing theory	14	18	14	18	14	17	11	11	8	10
Geometry	45	72	70	54	65	59	40	52	48	95
Logic	35	16	23	16	23	19	24	14	18	15
Mathematical statistics	205	178	181	204	174	195	198	167	191	226
Number theory	35	42	46	46	50	40	35	26	46	39
Operations research	36	21	20	17	21	19	14	19	19	23
Topology	51	55	62	65	65	50	54	40	49	52
Mathematics, general	305	233	153	163	116	151	155	133	150	82
Mathematics, other	72	79	131	124	133	99	103	92	88	73
Physical sciences	3,841	3,839	3,769	3,824	3,579	3,407	3,394	3,212	3,325	3,353
Astronomy	173	192	198	206	159	185	186	144	168	165
Astronomy	89	84	71	91	59	78	89	54	70	68
Astrophysics	84	108	127	115	100	107	97	90	98	97
Chemistry	2,162	2,149	2,148	2,216	2,132	1,989	1,981	1,923	2,041	1,987
Analytical chemistry	317	346	350	383	333	326	334	302	338	322
Inorganic chemistry	258	249	279	287	279	221	280	247	264	241
Medicinal/pharmaceutical chemistry	96	96	105	114	131	107	115	99	110	112
Nuclear chemistry ^a	5	5	8	6	10	9	4	9	4	NA
Organic chemistry	483	507	567	598	563	525	522	525	556	539

TABLE 1. Doctorates awarded, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical chemistry	338	300	334	279	310	271	285	302	321	264
Polymer chemistry	116	121	110	122	95	107	107	102	110	115
Theoretical chemistry	40	57	48	41	56	52	40	48	49	54
Chemistry, general	458	396	261	285	196	261	202	203	186	198
Chemistry, other	51	72	86	101	159	110	92	86	103	142
Physics	1,479	1,485	1,401	1,378	1,271	1,204	1,197	1,127	1,080	1,186
Acoustics	18	19	19	18	16	10	10	18	24	17
Chemical and atomic/molecular physics	110	129	106	100	100	110	81	82	73	82
Elementary particle physics	183	176	170	173	169	147	121	156	134	163
Fluids physics ^a	18	21	24	26	23	10	8	15	9	NA
Nuclear physics	91	87	106	92	77	74	80	76	67	74
Optics	98	129	123	105	98	117	107	107	95	119
Plasma/high-temperature physics	46	48	39	55	49	38	39	29	32	37
Polymer physics	23	33	19	24	28	21	18	22	13	18
Solid state/low-temperature physics	371	364	328	314	307	279	295	298	272	276
Physics, general	355	323	255	190	202	224	206	173	171	142
Physics, other	166	156	212	281	202	174	232	151	190	258
Other physical sciences	27	13	22	24	17	29	30	18	36	15
Psychology	3,429	3,495	3,557	3,675	3,668	3,618	3,442	3,199	3,281	3,336
Clinical psychology	1,290	1,327	1,255	1,345	1,441	1,353	1,262	1,218	1,188	1,221
Cognitive psychology/psycholinguistics	104	128	166	113	143	141	141	121	133	144
Comparative psychology	4	3	6	6	11	7	5	2	4	6
Counseling	471	465	488	448	460	475	482	469	437	511
Developmental/child psychology	152	188	215	267	193	203	193	171	178	186
Educational psychology	74	92	61	61	64	97	48	54	52	74
Experimental psychology	151	128	146	149	139	133	134	112	119	88
Family/marriage counseling	57	51	63	51	56	54	45	67	62	31
Human/individual family development	150	151	126	119	135	147	137	139	151	144
Industrial/organizational psychology	155	162	187	189	158	188	173	154	158	158
Personality	16	24	26	25	16	23	11	17	17	18
Physiological/psychobiology	92	80	77	92	87	89	92	88	85	83
Psychometrics ^a	10	11	11	9	15	13	2	9	7	NA
Quantitative psychology	13	19	17	15	14	8	10	13	11	29
School psychology	91	82	84	106	121	99	109	89	102	87
Social psychology	155	170	181	186	176	207	198	179	202	163
Psychology, general	306	281	318	300	235	239	223	146	227	226
Psychology, other	138	133	130	194	204	142	177	151	148	167
Social sciences	3,879	4,003	4,110	4,055	4,064	4,156	4,078	4,004	4,142	4,131
Economics	1,152	1,177	1,163	1,156	1,075	1,086	1,081	1,024	1,051	1,066
Agricultural economics	173	169	133	155	149	138	154	120	119	106
Econometrics	27	29	31	25	15	15	13	14	23	18
Economics	952	979	999	976	911	933	914	890	909	942
Political science	894	928	975	959	1,016	987	984	938	1,026	946
International relations and affairs	73	99	88	96	119	77	91	82	99	99
Political science/government	599	622	665	662	655	669	658	606	660	586
Public administration	128	103	95	104	117	103	96	103	120	116
Public policy analysis	94	104	127	97	125	138	139	147	147	145
Sociology	556	528	601	579	572	637	577	565	612	598
Demography/population studies	15	11	24	30	28	20	12	20	15	19
Sociology	541	517	577	549	544	617	565	545	597	579
Other social sciences	1,277	1,370	1,371	1,361	1,401	1,446	1,436	1,477	1,453	1,521
American studies	94	115	84	100	98	113	127	97	94	115
Anthropology	375	397	434	425	463	446	410	495	472	529
Archaeology	35	21	35	34	26	36	40	26	33	34
Area studies	27	28	10	14	11	14	19	25	12	18

TABLE 1. Doctorates awarded, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Criminology	44	60	49	55	51	66	62	56	76	69
Geography	150	165	149	154	144	197	186	197	168	192
History/philosophy of science and technology	41	37	35	44	50	42	40	46	46	48
Linguistics	201	230	244	220	251	230	230	195	225	253
Statistics	48	48	56	61	72	60	49	54	48	31
Urban affairs and studies	103	108	92	77	57	79	80	92	78	84
Social sciences, general	35	26	26	30	25	37	25	33	28	32
Social sciences, other	124	135	157	147	153	126	168	161	173	116
Engineering	6,008	6,309	6,115	5,924	5,330	5,321	5,505	5,076	5,278	5,776
Aeronautical/astronautical engineering	252	287	273	241	206	214	203	209	200	201
Chemical engineering	708	798	767	776	674	725	729	705	648	723
Chemical engineering	602	681	662	669	576	618	635	607	567	635
Petroleum engineering	48	52	51	48	45	45	37	45	36	34
Polymer/plastics engineering	58	65	54	59	53	62	57	53	45	54
Civil engineering	656	698	655	650	584	556	594	626	674	675
Civil engineering	572	600	592	587	506	480	500	539	552	547
Environmental health	84	98	63	63	78	76	94	87	122	128
Electrical engineering	1,731	1,741	1,720	1,596	1,478	1,544	1,576	1,395	1,466	1,649
Communications	29	32	33	40	39	42	47	22	36	34
Computer engineering	189	208	227	210	203	172	186	164	192	227
Electrical/electronics engineering	1,513	1,501	1,460	1,346	1,236	1,330	1,343	1,209	1,238	1,388
Industrial/manufacturing engineering	284	259	246	229	211	176	206	230	213	217
Materials/metallurgical engineering	588	574	582	565	469	451	497	396	474	509
Ceramic sciences	39	41	39	24	33	22	17	13	18	14
Materials science	476	472	483	482	393	404	448	364	437	473
Metallurgical engineering	73	61	60	59	43	25	32	19	19	22
Mechanical engineering	1,025	1,052	1,022	1,022	855	864	953	827	814	853
Engineering mechanics	108	105	93	86	68	57	75	56	63	98
Mechanical engineering	917	947	929	936	787	807	878	771	751	755
Other engineering	764	900	850	845	853	791	747	688	789	949
Agricultural engineering	73	104	79	74	59	60	52	50	54	60
Bioengineering/biomedical engineering	189	220	211	208	245	252	232	246	280	369
Engineering physics	17	37	24	15	28	26	22	16	28	28
Engineering science	56	52	45	49	49	34	53	31	39	61
Mining/mineral engineering	19	31	33	21	18	10	10	8	14	9
Nuclear engineering	105	113	103	96	76	98	75	64	75	59
Ocean engineering	21	26	34	29	16	18	28	23	12	21
Operations research	48	74	74	62	67	51	55	66	80	72
Systems engineering	47	47	49	68	42	34	47	45	45	58
Engineering, general	60	60	51	29	40	42	25	19	19	29
Engineering, other	129	136	147	194	213	166	148	120	143	183
Non-science and engineering	15,214	15,198	15,309	15,369	15,159	15,399	15,276	15,401	15,481	15,880
Education	6,650	6,785	6,574	6,571	6,546	6,430	6,337	6,487	6,632	6,635
Health	1,329	1,324	1,421	1,500	1,407	1,592	1,622	1,653	1,636	1,730
Humanities	4,691	4,712	5,034	5,116	5,034	5,213	5,161	5,010	5,015	5,017
Professional/other/unknown	2,544	2,377	2,280	2,182	2,172	2,164	2,156	2,251	2,198	2,498

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

^a This subfield dropped in 2004.

^b This subfield introduced in 2001.

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

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

TABLE 2. Doctorates awarded to women, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	% women	
											1995	2004
All fields	16,418	16,956	17,241	17,849	17,480	18,125	17,951	18,124	18,410	19,098	39.3	45.3
Science and engineering	8,287	8,649	8,934	9,349	9,082	9,393	9,331	9,159	9,477	9,819	31.2	37.4
Science	7,591	7,872	8,184	8,575	8,294	8,556	8,402	8,271	8,581	8,805	37.0	43.0
Biological/agricultural sciences	2,473	2,719	2,782	2,864	2,705	2,939	2,888	2,863	2,969	3,145	38.1	45.0
Agricultural sciences	256	304	287	328	311	317	339	318	370	398	22.9	38.0
Agronomy/crop science	13	17	10	18	16	14	21	19	14	11	11.4	17.5
Animal breeding/genetics	1	3	4	6	7	4	4	2	6	7	5.3	58.3
Animal nutrition	9	11	13	13	12	8	6	17	9	7	18.0	14.9
Animal sciences, other	19	26	14	16	23	26	19	22	33	26	22.4	34.2
Conservation/renewable natural resources	5	3	7	11	9	5	18	12	13	26	20.8	57.8
Dairy science ^a	3	2	5	2	5	0	0	2	8	NA	21.4	NA
Environmental science	28	23	27	30	31	43	47	40	57	64	34.6	48.5
Fisheries science/management	9	10	5	8	7	11	9	13	12	11	18.4	29.7
Food engineering	0	0	3	3	2	2	8	4	5	42	0.0	44.2
Food sciences, other	54	69	79	66	67	66	64	56	78	43	40.0	58.1
Forest biology	5	4	1	6	4	8	7	7	3	6	20.8	16.7
Forest engineering ^a	0	0	2	0	0	0	0	0	0	NA	0.0	NA
Forest management	6	2	4	9	3	2	4	2	6	8	30.0	29.6
Forestry and related sciences, other	13	18	15	16	16	17	16	16	15	10	18.3	29.4
Horticulture science	22	22	16	13	16	16	13	13	18	12	32.8	26.7
Plant breeding/genetics	15	13	9	14	13	23	10	12	13	12	20.8	33.3
Plant pathology	9	27	26	24	27	12	16	22	18	24	17.3	43.6
Plant sciences, other	3	3	7	14	12	10	10	11	10	16	10.0	44.4
Poultry science	0	2	2	3	2	3	5	5	5	8	0.0	38.1
Soil chemistry/microbiology	5	9	9	7	8	8	15	8	10	13	18.5	65.0
Soil sciences, other	18	14	8	21	11	15	15	16	13	15	25.0	28.3
Wildlife/range management	8	22	13	15	8	11	15	9	12	14	16.0	35.0
Wood science and pulp/paper technology	6	3	2	4	6	1	4	2	5	8	23.1	42.1
Agricultural sciences, general	3	0	2	1	0	2	0	2	0	1	50.0	16.7
Agricultural sciences, other	2	1	4	8	6	10	13	6	7	14	28.6	37.8
Biological sciences	2,217	2,415	2,495	2,536	2,394	2,622	2,549	2,545	2,599	2,747	41.2	46.3
Anatomy	25	20	19	8	16	17	12	8	11	4	39.1	30.8
Bacteriology	6	8	1	4	6	6	10	7	2	5	46.2	33.3
Biochemistry	341	317	364	351	308	325	309	294	319	295	41.4	42.0
Biological immunology	82	129	93	115	100	116	122	146	121	167	43.2	48.5
Biomedical sciences	42	54	63	80	72	68	81	110	87	97	45.2	52.7
Biometrics/biostatistics	23	34	43	39	36	41	47	47	49	50	34.3	50.0
Biophysics	46	41	41	47	49	49	47	34	53	47	29.7	36.2
Biotechnology research	2	1	3	4	2	6	3	5	7	11	50.0	42.3
Botany, other	34	44	31	55	25	53	33	39	37	65	33.3	48.5
Cell biology	117	107	113	155	134	155	148	160	146	127	49.6	43.5
Developmental biology/embryology	29	49	61	61	54	60	53	34	71	71	45.3	50.4
Ecology	64	84	108	114	121	116	128	135	143	159	31.5	43.4
Endocrinology	6	13	9	14	9	8	7	6	12	11	30.0	50.0
Entomology	27	36	42	38	37	37	31	33	30	30	22.3	27.8
Human/animal genetics	92	101	103	91	105	115	106	109	123	117	45.5	45.7
Human/animal pathology	38	52	42	35	54	45	56	63	46	46	34.9	46.9
Human/animal pharmacology	129	142	143	120	113	123	115	113	126	145	46.4	50.9
Human/animal physiology	103	107	82	100	109	99	91	84	86	85	39.3	41.5
Microbiology	188	185	185	169	164	189	181	177	159	197	44.1	50.4
Molecular biology	265	291	331	322	299	320	323	271	290	359	42.9	49.6
Neuroscience	121	165	190	169	181	195	200	202	202	259	39.3	44.3
Nutritional sciences	92	98	92	96	68	126	99	107	102	102	67.6	76.7
Parasitology	7	12	10	6	6	8	10	6	6	10	50.0	50.0
Plant genetics	12	16	11	18	9	17	15	28	17	21	34.3	38.9
Plant pathology	10	13	8	8	12	8	11	15	12	14	31.3	53.8

TABLE 2. Doctorates awarded to women, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	% women	
											1995	2004
Plant physiology	21	29	18	28	23	15	20	19	13	8	38.2	32.0
Toxicology	50	60	80	60	53	58	62	65	63	48	39.7	44.9
Zoology, other	50	31	34	43	47	55	40	46	56	35	34.5	36.5
Biological sciences, general	148	120	86	82	75	82	86	96	84	87	42.5	45.8
Biological sciences, other	47	56	89	104	107	110	103	86	126	75	37.0	45.2
Earth, atmospheric, and ocean sciences	142	149	182	189	179	187	189	202	202	228	20.3	33.9
Atmospheric sciences	23	22	25	30	22	33	28	31	39	46	17.7	36.5
Atmospheric dynamics	3	4	5	8	5	3	4	3	6	16	18.8	48.5
Atmospheric physics/chemistry	8	7	10	7	11	12	9	15	15	15	29.6	51.7
Meteorology	3	2	3	5	1	6	2	2	4	5	12.0	22.7
Atmospheric sciences/meteorology, general	7	5	5	8	2	7	10	6	5	7	15.9	29.2
Atmospheric sciences/meteorology, other	2	4	2	2	3	5	3	5	9	3	11.1	16.7
Earth sciences	91	88	119	127	112	108	115	121	104	132	20.0	31.4
Geochemistry	10	10	15	22	21	13	11	22	17	18	23.8	47.4
Geology	38	36	39	40	41	28	38	30	38	25	20.4	25.5
Geomorphology/glacial geology	4	1	4	8	9	4	3	6	3	8	36.4	36.4
Geophysics/seismology	19	14	19	21	15	16	22	24	17	26	20.4	29.9
Hydrology/water resources	4	5	8	8	5	16	14	10	4	12	16.7	24.5
Mineralogy/petrology	4	11	6	5	3	1	4	4	4	4	21.1	23.5
Paleontology	3	4	11	7	4	14	4	6	3	12	15.0	48.0
Stratigraphy/sedimentation	1	3	7	4	3	4	3	2	6	5	6.3	26.3
Geological and related sciences, general	4	2	4	5	1	5	6	3	2	6	19.0	26.1
Geological and related sciences, other	4	2	6	7	10	7	10	14	10	16	18.2	38.1
Ocean sciences	28	39	38	32	45	46	46	50	59	50	24.3	39.7
Marine sciences	8	5	8	3	9	17	15	17	21	29	25.0	49.2
Oceanography	20	34	30	29	36	29	31	33	38	21	24.1	31.3
Mathematics/computer sciences	451	370	413	456	434	400	431	431	438	500	20.6	24.7
Computer sciences	186	139	150	159	157	141	155	166	175	195	18.7	20.5
Computer science	160	116	132	120	120	103	111	124	119	134	17.5	17.4
Information science/systems	26	23	18	39	36	38	27	26	24	42	31.0	39.6
Computer and information science, other ^b	NA	NA	NA	NA	1	NA	17	16	32	19	NA	25.3
Mathematics	265	231	263	297	277	259	276	265	263	305	22.3	28.4
Algebra	24	18	20	18	25	21	20	15	23	28	29.3	28.9
Analysis/functional analysis	18	15	13	25	19	15	20	20	15	28	18.2	28.3
Applied mathematics	47	52	55	61	59	59	56	62	56	61	22.3	23.1
Computing theory	2	2	1	3	3	2	2	2	0	3	14.3	30.0
Geometry	8	14	13	15	16	8	7	12	10	29	17.8	30.5
Logic	7	1	5	5	5	2	6	5	5	2	20.0	13.3
Mathematical statistics	54	47	46	62	46	71	63	62	69	78	26.3	34.5
Number theory	9	7	11	7	12	5	8	5	7	5	25.7	12.8
Operations research	5	4	5	6	9	3	2	9	4	6	13.9	26.1
Topology	8	5	14	13	15	10	15	10	13	19	15.7	36.5
Mathematics, general	64	45	44	39	22	34	36	33	32	22	21.0	26.8
Mathematics, other	19	21	36	43	46	29	41	30	29	24	26.4	32.9
Physical sciences	878	842	852	926	831	835	838	861	894	870	22.9	25.9
Astronomy	30	41	37	45	33	40	41	28	41	46	17.3	27.9
Astronomy	18	21	18	22	18	24	21	13	19	24	20.2	35.3
Astrophysics	12	20	19	23	15	16	20	15	22	22	14.3	22.7
Chemistry	661	605	613	695	632	624	628	647	649	629	30.6	31.7
Analytical chemistry	109	111	106	146	108	121	123	114	137	119	34.4	37.0
Inorganic chemistry	92	68	81	84	90	64	91	86	95	80	35.7	33.2
Medicinal/pharmaceutical chemistry	32	32	43	46	50	51	45	39	41	48	33.3	42.9
Nuclear chemistry ^a	3	0	0	1	1	3	0	3	2	NA	60.0	NA
Organic chemistry	134	118	145	160	163	140	132	144	145	141	27.7	26.2

TABLE 2. Doctorates awarded to women, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	% women	
											1995	2004
Physical chemistry	93	85	91	77	75	76	92	102	84	81	27.5	30.7
Polymer chemistry	28	30	25	40	31	31	33	35	25	40	24.1	34.8
Theoretical chemistry	10	14	11	10	9	12	6	17	12	16	25.0	29.6
Chemistry, general	135	119	76	88	52	81	72	61	68	55	29.5	27.8
Chemistry, other	25	28	35	43	53	45	34	46	40	49	49.0	34.5
Physics	182	193	193	177	160	163	160	177	193	184	12.3	15.5
Acoustics	3	2	4	6	1	1	1	1	5	1	16.7	5.9
Chemical and atomic/molecular physics	15	10	11	13	14	21	7	11	14	11	13.6	13.4
Elementary particle physics	7	19	21	11	17	15	9	28	15	20	3.8	12.3
Fluids physics ^a	0	4	0	0	2	0	1	2	0	NA	0.0	NA
Nuclear physics	12	9	11	11	9	9	13	18	10	12	13.2	16.2
Optics	13	20	16	18	12	16	14	19	23	21	13.3	17.6
Plasma/high-temperature physics	5	2	2	2	2	0	3	3	2	4	10.9	10.8
Polymer physics	3	12	7	4	7	6	5	6	1	1	13.0	5.6
Solid state/low-temperature physics	57	54	51	37	42	42	32	48	48	41	15.4	14.9
Physics, general	41	39	36	29	22	31	23	21	25	29	11.5	20.4
Physics, other	26	22	34	46	32	22	52	20	50	44	15.7	17.1
Other physical sciences	5	3	9	9	6	8	9	9	11	11	18.5	73.3
Psychology	2,181	2,330	2,363	2,456	2,449	2,411	2,306	2,133	2,230	2,245	63.6	67.3
Clinical psychology	870	920	894	967	1,033	992	891	852	848	868	67.4	71.1
Cognitive psychology/psycholinguistics	52	60	75	50	70	66	76	67	70	76	50.0	52.8
Comparative psychology	1	2	3	4	7	2	1	1	2	4	25.0	66.7
Counseling	298	303	314	295	295	312	334	321	312	351	63.3	68.7
Developmental/child psychology	121	154	170	207	149	163	159	141	144	160	79.6	86.0
Educational psychology	53	66	45	39	44	63	31	38	42	53	71.6	71.6
Experimental psychology	83	68	70	65	65	59	72	63	65	45	55.0	51.1
Family/marriage counseling	37	28	43	28	38	29	22	35	42	19	64.9	61.3
Human/individual family development	118	121	101	91	112	103	97	95	111	92	78.7	63.9
Industrial/organizational psychology	89	99	103	110	99	113	105	85	86	85	57.4	53.8
Personality	9	11	13	15	11	14	6	12	11	10	56.3	55.6
Physiological/psychobiology	35	41	42	49	49	56	46	51	42	48	38.0	57.8
Psychometrics ^a	4	3	7	5	2	5	2	2	4	NA	40.0	NA
Quantitative psychology	9	7	10	8	7	2	5	6	3	14	69.2	48.3
School psychology	62	71	66	81	89	78	90	68	72	73	68.1	83.9
Social psychology	84	111	116	117	115	135	107	104	129	109	54.2	66.9
Psychology, general	185	181	199	201	132	134	152	86	141	128	60.5	56.6
Psychology, other	71	84	92	124	132	85	110	106	106	110	51.4	65.9
Social sciences	1,466	1,462	1,592	1,684	1,696	1,784	1,750	1,781	1,848	1,817	37.8	44.0
Economics	279	263	266	312	291	293	306	281	302	311	24.2	29.2
Agricultural economics	42	37	34	40	39	38	46	32	40	29	24.3	27.4
Econometrics	4	8	4	4	5	3	2	2	6	3	14.8	16.7
Economics	233	218	228	268	247	252	258	247	256	279	24.5	29.6
Political science	265	305	298	364	356	365	330	394	397	344	29.6	36.4
International relations and affairs	21	32	19	32	38	26	31	34	27	39	28.8	39.4
Political science/government	166	186	197	243	216	235	214	252	251	195	27.7	33.3
Public administration	43	37	30	48	46	42	41	35	48	46	33.6	39.7
Public policy analysis	35	50	52	41	56	62	44	73	71	64	37.2	44.1
Sociology	295	276	334	317	342	376	337	345	361	351	53.1	58.7
Demography/population studies	6	2	16	13	17	10	8	12	9	13	40.0	68.4
Sociology	289	274	318	304	325	366	329	333	352	338	53.4	58.4
Other social sciences	627	618	694	691	707	750	777	761	788	811	49.1	53.3
American studies	53	67	47	52	56	63	87	56	66	67	56.4	58.3
Anthropology	219	214	241	239	263	252	244	289	288	292	58.4	55.2
Archaeology	18	11	20	23	12	24	19	15	20	18	51.4	52.9

TABLE 2. Doctorates awarded to women, by field of study: 1995–2004

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	% women	
											1995	2004
Area studies	12	9	5	11	3	4	10	14	7	10	44.4	55.6
Criminology	23	25	25	22	20	34	29	30	30	40	52.3	58.0
Geography	43	45	54	49	49	70	66	64	65	86	28.7	44.8
History/philosophy of science and technology	17	10	13	20	18	17	8	11	23	12	41.5	25.0
Linguistics	102	113	135	123	148	135	136	114	132	149	50.7	58.9
Statistics	11	7	23	21	21	22	22	23	19	15	22.9	48.4
Urban affairs and studies	37	39	29	26	17	28	33	35	32	33	35.9	39.3
Social sciences, general	23	15	14	17	14	20	20	17	11	20	65.7	62.5
Social sciences, other	69	63	88	88	86	81	103	93	95	69	55.6	59.5
Engineering	696	777	750	774	788	837	929	888	896	1,014	11.6	17.6
Aeronautical/astronautical engineering	14	24	16	15	17	21	28	24	27	24	5.6	11.9
Chemical engineering	109	143	122	140	123	151	180	176	154	173	15.4	23.9
Chemical engineering	96	126	106	119	101	130	156	150	140	150	15.9	23.6
Petroleum engineering	1	3	3	6	5	6	7	10	5	5	2.1	14.7
Polymer/plastics engineering	12	14	13	15	17	15	17	16	9	18	20.7	33.3
Civil engineering	76	79	80	100	89	88	111	120	125	132	11.6	19.6
Civil engineering	55	64	70	83	76	78	82	96	86	85	9.6	15.5
Environmental health	21	15	10	17	13	10	29	24	39	47	25.0	36.7
Electrical engineering	173	169	150	156	155	195	203	163	179	222	10.0	13.5
Communications	5	2	3	6	6	7	12	4	7	3	17.2	8.8
Computer engineering	18	23	21	22	32	31	33	16	27	30	9.5	13.2
Electrical/electronics engineering	150	144	126	128	117	157	158	143	145	189	9.9	13.6
Industrial/manufacturing engineering	50	51	40	40	42	35	45	67	53	42	17.6	19.4
Materials/metallurgical engineering	95	84	106	84	88	83	105	80	101	90	16.2	17.7
Ceramic sciences	5	3	8	2	9	8	3	1	1	1	12.8	7.1
Materials science	84	72	96	75	75	73	99	78	99	84	17.6	17.8
Metallurgical engineering	6	9	2	7	4	2	3	1	1	5	8.2	22.7
Mechanical engineering	64	78	88	93	96	96	91	96	84	95	6.2	11.1
Engineering mechanics	8	10	6	13	11	7	5	8	9	11	7.4	11.2
Mechanical engineering	56	68	82	80	85	89	86	88	75	84	6.1	11.1
Other engineering	115	149	148	146	178	168	166	162	173	236	15.1	24.9
Agricultural engineering	7	17	12	5	12	7	8	9	6	14	9.6	23.3
Bioengineering/biomedical engineering	48	49	54	51	63	71	69	69	78	111	25.4	30.1
Engineering physics	1	3	4	3	4	1	2	3	9	7	5.9	25.0
Engineering science	6	4	7	8	4	6	9	8	2	15	10.7	24.6
Mining/mineral engineering	0	3	3	4	2	0	2	0	1	2	0.0	22.2
Nuclear engineering	9	9	8	10	8	9	6	13	11	11	8.6	18.6
Ocean engineering	3	3	5	0	1	3	3	3	1	3	14.3	14.3
Operations research	8	16	15	15	16	11	17	13	19	11	16.7	15.3
Systems engineering	5	9	10	9	7	6	8	9	8	11	10.6	19.0
Engineering, general	9	11	3	3	4	10	4	6	4	6	15.0	20.7
Engineering, other	19	25	27	38	57	44	38	29	34	45	14.7	24.6
Non-science and engineering	8,131	8,307	8,307	8,500	8,398	8,732	8,620	8,965	8,933	9,279	53.4	58.4
Education	4,093	4,187	4,120	4,130	4,195	4,173	4,095	4,290	4,364	4,361	61.5	65.7
Health	843	860	936	1,006	899	1,066	1,033	1,123	1,087	1,180	63.4	68.2
Humanities	2,256	2,343	2,381	2,469	2,418	2,593	2,578	2,506	2,505	2,588	48.1	51.6
Professional/other/unknown	939	917	870	895	886	900	914	1,046	977	1,150	36.9	46.0

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

^a This subfield dropped in 2004.

^b This subfield introduced in 2001.

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

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: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	41,750	42,439	42,541	42,647	41,092	41,365	40,824	39,989	40,770	42,155
Science and engineering	26,536	27,241	27,232	27,278	25,933	25,966	25,548	24,588	25,289	26,275
Science	20,528	20,932	21,117	21,354	20,603	20,645	20,043	19,512	20,011	20,499
Agricultural sciences	1,117	1,118	1,078	1,110	1,065	1,038	975	1,009	1,061	1,046
Biological sciences	5,376	5,724	5,789	5,845	5,582	5,854	5,691	5,690	5,697	5,937
Computer sciences	997	920	909	927	856	859	826	807	865	949
Earth, atmospheric, and ocean sciences	699	711	782	741	706	663	630	673	646	672
Mathematics	1,190	1,122	1,123	1,177	1,083	1,050	1,007	918	994	1,075
Physical sciences	3,841	3,839	3,769	3,824	3,579	3,407	3,394	3,212	3,325	3,353
Astronomy	173	192	198	206	159	185	186	144	168	165
Chemistry	2,162	2,149	2,148	2,216	2,132	1,989	1,981	1,923	2,041	1,987
Physics	1,479	1,485	1,401	1,378	1,271	1,204	1,197	1,127	1,080	1,186
Other physical sciences	27	13	22	24	17	29	30	18	36	15
Psychology	3,429	3,495	3,557	3,675	3,668	3,618	3,442	3,199	3,281	3,336
Social sciences	3,879	4,003	4,110	4,055	4,064	4,156	4,078	4,004	4,142	4,131
Engineering	6,008	6,309	6,115	5,924	5,330	5,321	5,505	5,076	5,278	5,776
Aeronautical/astronautical engineering	252	287	273	241	206	214	203	209	200	201
Chemical engineering	708	798	767	776	674	725	729	705	648	723
Civil engineering	656	698	655	650	584	556	594	626	674	675
Electrical engineering	1,731	1,741	1,720	1,596	1,478	1,544	1,576	1,395	1,466	1,649
Industrial engineering	284	259	246	229	211	176	206	230	213	217
Materials/metallurgical engineering	588	574	582	565	469	451	497	396	474	509
Mechanical engineering	1,025	1,052	1,022	1,022	855	864	953	827	814	853
Other engineering	764	900	850	845	853	791	747	688	789	949
Non-science and engineering	15,214	15,198	15,309	15,369	15,159	15,399	15,276	15,401	15,481	15,880
Education	6,650	6,785	6,574	6,571	6,546	6,430	6,337	6,487	6,632	6,635
Health	1,329	1,324	1,421	1,500	1,407	1,592	1,622	1,653	1,636	1,730
Humanities	4,691	4,712	5,034	5,116	5,034	5,213	5,161	5,010	5,015	5,017
Professional/other/unknown	2,544	2,377	2,280	2,182	2,172	2,164	2,156	2,251	2,198	2,498
Male, all fields	25,161	25,286	24,943	24,633	23,434	23,166	22,793	21,771	22,201	22,976
Science and engineering	18,117	18,454	18,083	17,810	16,735	16,521	16,174	15,374	15,728	16,405
Science	12,847	12,966	12,767	12,699	12,231	12,062	11,607	11,203	11,375	11,655
Agricultural sciences	857	813	783	781	749	719	629	683	685	644
Biological sciences	3,132	3,287	3,262	3,294	3,171	3,226	3,133	3,143	3,085	3,181
Computer sciences	808	775	743	765	692	716	669	638	690	749
Earth, atmospheric, and ocean sciences	555	555	595	549	524	473	440	471	443	444
Mathematics	919	881	851	872	803	790	731	650	729	770
Physical sciences	2,944	2,970	2,893	2,879	2,733	2,567	2,551	2,346	2,420	2,476
Astronomy	143	151	161	161	126	145	145	116	127	119
Chemistry	1,488	1,526	1,523	1,509	1,493	1,361	1,349	1,275	1,386	1,352
Physics	1,291	1,283	1,196	1,195	1,103	1,040	1,036	946	882	1,001
Other physical sciences	22	10	13	14	11	21	21	9	25	4
Psychology	1,245	1,162	1,162	1,206	1,209	1,204	1,132	1,061	1,042	1,086
Social sciences	2,387	2,523	2,478	2,353	2,350	2,367	2,322	2,211	2,281	2,305
Engineering	5,270	5,488	5,316	5,111	4,504	4,459	4,567	4,171	4,353	4,750
Aeronautical/astronautical engineering	237	262	254	225	188	191	174	184	172	177
Chemical engineering	597	653	641	630	550	571	547	527	492	549
Civil engineering	575	616	571	544	495	466	482	504	545	541
Electrical engineering	1,545	1,556	1,560	1,429	1,310	1,339	1,372	1,224	1,279	1,421
Industrial engineering	231	208	205	188	169	140	160	162	156	174
Materials/metallurgical engineering	489	483	470	477	376	367	392	315	373	419
Mechanical engineering	954	963	928	922	751	767	860	729	726	758
Other engineering	642	747	687	696	665	618	580	526	610	711
Non-science and engineering	7,044	6,832	6,860	6,823	6,699	6,645	6,619	6,397	6,473	6,571
Education	2,547	2,579	2,394	2,424	2,334	2,254	2,237	2,186	2,240	2,266
Health	477	456	469	489	499	523	576	529	540	544

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Humanities	2,429	2,352	2,618	2,638	2,590	2,616	2,575	2,497	2,500	2,423
Professional/other/unknown	1,591	1,445	1,379	1,272	1,276	1,252	1,231	1,185	1,193	1,338
Female, all fields	16,418	16,956	17,241	17,849	17,480	18,125	17,951	18,124	18,410	19,098
Science and engineering	8,287	8,649	8,934	9,349	9,082	9,393	9,331	9,159	9,477	9,819
Science	7,591	7,872	8,184	8,575	8,294	8,556	8,402	8,271	8,581	8,805
Agricultural sciences	256	304	287	328	311	317	339	318	370	398
Biological sciences	2,217	2,415	2,495	2,536	2,394	2,622	2,549	2,545	2,599	2,747
Computer sciences	186	139	150	159	157	141	155	166	175	195
Earth, atmospheric, and ocean sciences	142	149	182	189	179	187	189	202	202	228
Mathematics	265	231	263	297	277	259	276	265	263	305
Physical sciences	878	842	852	926	831	835	838	861	894	870
Astronomy	30	41	37	45	33	40	41	28	41	46
Chemistry	661	605	613	695	632	624	628	647	649	629
Physics	182	193	193	177	160	163	160	177	193	184
Other physical sciences	5	3	9	9	6	8	9	9	11	11
Psychology	2,181	2,330	2,363	2,456	2,449	2,411	2,306	2,133	2,230	2,245
Social sciences	1,466	1,462	1,592	1,684	1,696	1,784	1,750	1,781	1,848	1,817
Engineering	696	777	750	774	788	837	929	888	896	1,014
Aeronautical/astronautical engineering	14	24	16	15	17	21	28	24	27	24
Chemical engineering	109	143	122	140	123	151	180	176	154	173
Civil engineering	76	79	80	100	89	88	111	120	125	132
Electrical engineering	173	169	150	156	155	195	203	163	179	222
Industrial engineering	50	51	40	40	42	35	45	67	53	42
Materials/metallurgical engineering	95	84	106	84	88	83	105	80	101	90
Mechanical engineering	64	78	88	93	96	96	91	96	84	95
Other engineering	115	149	148	146	178	168	166	162	173	236
Non-science and engineering	8,131	8,307	8,307	8,500	8,398	8,732	8,620	8,965	8,933	9,279
Education	4,093	4,187	4,120	4,130	4,195	4,173	4,095	4,290	4,364	4,361
Health	843	860	936	1,006	899	1,066	1,033	1,123	1,087	1,180
Humanities	2,256	2,343	2,381	2,469	2,418	2,593	2,578	2,506	2,505	2,588
Professional/other/unknown	939	917	870	895	886	900	914	1,046	977	1,150
U.S. citizen or permanent resident, all fields	32,060	31,540	31,082	31,159	30,294	29,929	28,878	27,661	28,119	27,959
Science and engineering	18,997	18,647	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
Science	15,655	15,258	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
Agricultural sciences	666	628	619	591	561	559	504	491	561	563
Biological sciences	4,329	4,364	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
Computer sciences	616	514	520	561	493	457	423	419	443	448
Earth, atmospheric, and ocean sciences	526	505	538	514	459	453	395	424	429	426
Mathematics	771	648	629	669	605	574	524	442	517	510
Physical sciences	2,841	2,571	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
Astronomy	141	149	158	147	117	139	123	109	131	115
Chemistry	1,624	1,463	1,439	1,467	1,406	1,241	1,230	1,230	1,265	1,180
Physics	1,059	949	883	823	742	692	677	589	552	559
Other physical sciences	17	10	17	18	12	20	15	12	22	12
Psychology	3,184	3,233	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
Social sciences	2,722	2,795	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
Engineering	3,342	3,389	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
Aeronautical/astronautical engineering	153	184	168	152	112	127	102	91	80	77
Chemical engineering	381	391	409	374	371	382	361	336	292	312
Civil engineering	309	305	327	297	312	261	269	247	269	224
Electrical engineering	971	929	940	804	766	648	560	507	498	498
Industrial engineering	149	136	119	101	99	77	89	81	70	77
Materials/metallurgical engineering	352	337	315	313	260	244	225	175	200	210
Mechanical engineering	563	588	538	515	464	396	428	342	332	299
Other engineering	464	519	516	488	505	436	412	385	429	485

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Non-science and engineering	13,063	12,893	12,689	12,902	12,727	12,815	12,532	12,149	12,404	12,238
Education	5,995	6,075	5,747	5,745	5,814	5,681	5,450	5,398	5,643	5,417
Health	1,043	1,016	1,028	1,154	1,049	1,195	1,158	1,194	1,229	1,271
Humanities	4,056	4,047	4,235	4,327	4,292	4,391	4,379	4,115	4,134	4,051
Professional/other/unknown	1,969	1,755	1,679	1,676	1,572	1,548	1,545	1,442	1,398	1,499
Male U.S. citizen or permanent resident, all fields	17,872	17,203	16,881	16,537	15,893	15,290	14,642	13,725	13,892	13,734
Science and engineering	12,081	11,682	11,391	11,067	10,495	9,980	9,433	8,810	8,890	8,875
Science	9,259	8,819	8,572	8,481	8,097	7,900	7,466	7,088	7,160	7,163
Agricultural sciences	506	443	443	387	376	364	310	309	361	337
Biological sciences	2,469	2,423	2,333	2,385	2,260	2,281	2,272	2,194	2,138	2,188
Computer sciences	473	423	419	437	387	371	325	322	346	345
Earth, atmospheric, and ocean sciences	407	386	393	364	330	314	260	266	284	260
Mathematics	588	503	452	470	413	409	370	308	365	356
Physical sciences	2,132	1,961	1,909	1,849	1,724	1,546	1,518	1,399	1,401	1,356
Astronomy	116	114	132	120	91	104	94	87	100	82
Chemistry	1,087	1,024	1,007	1,003	980	819	822	809	848	798
Physics	915	815	759	715	647	609	590	497	439	473
Other physical sciences	14	8	11	11	6	14	12	6	14	3
Psychology	1,127	1,048	1,014	1,058	1,063	1,052	983	916	894	895
Social sciences	1,557	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,371	1,426
Engineering	2,822	2,863	2,819	2,586	2,398	2,080	1,967	1,722	1,730	1,712
Aeronautical/astronautical engineering	141	166	156	140	102	113	83	80	69	67
Chemical engineering	293	293	332	297	296	282	268	248	220	232
Civil engineering	257	258	269	239	251	213	203	190	200	159
Electrical engineering	851	823	834	712	685	555	493	441	433	430
Industrial engineering	115	100	91	77	68	59	61	49	48	57
Materials/metallurgical engineering	273	273	244	262	206	190	171	129	155	173
Mechanical engineering	514	528	482	461	404	340	390	298	292	255
Other engineering	378	422	411	398	386	328	298	287	313	339
Non-science and engineering	5,791	5,521	5,490	5,470	5,398	5,310	5,209	4,915	5,002	4,859
Education	2,243	2,243	2,051	2,049	2,013	1,925	1,889	1,796	1,858	1,792
Health	324	293	287	310	329	341	340	340	354	346
Humanities	2,076	2,001	2,197	2,217	2,209	2,215	2,153	2,073	2,082	1,992
Professional/other/unknown	1,148	984	955	894	847	829	827	706	708	729
Female U.S. citizen or permanent resident, all fields	14,185	14,337	14,168	14,592	14,401	14,634	14,236	13,935	14,223	14,221
Science and engineering	6,914	6,965	6,988	7,172	7,072	7,132	6,913	6,701	6,823	6,842
Science	6,394	6,439	6,476	6,720	6,581	6,641	6,434	6,259	6,383	6,372
Agricultural sciences	160	185	175	204	185	195	194	181	200	226
Biological sciences	1,859	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,916	1,997
Computer sciences	143	91	100	123	106	86	98	97	97	102
Earth, atmospheric, and ocean sciences	119	119	144	150	129	139	135	158	145	166
Mathematics	183	145	177	198	192	164	154	134	152	154
Physical sciences	708	610	587	604	553	546	527	541	569	510
Astronomy	25	35	26	27	26	35	29	22	31	33
Chemistry	537	439	431	463	426	422	408	421	417	382
Physics	143	134	124	107	95	83	87	92	113	86
Other physical sciences	3	2	6	7	6	6	3	6	8	9
Psychology	2,057	2,185	2,106	2,212	2,229	2,178	2,050	1,879	1,963	1,893
Social sciences	1,165	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,341	1,324
Engineering	520	526	512	452	491	491	479	442	440	470
Aeronautical/astronautical engineering	12	18	12	12	10	14	19	11	11	10
Chemical engineering	88	98	77	76	75	100	93	88	72	80
Civil engineering	52	47	58	58	61	48	66	57	69	65
Electrical engineering	120	106	106	91	81	93	67	66	65	68
Industrial engineering	34	36	28	24	31	18	28	32	22	20
Materials/metallurgical engineering	79	64	71	51	54	54	54	46	45	37

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical engineering	49	60	55	50	60	56	38	44	40	44
Other engineering	86	97	105	90	119	108	114	98	116	146
Non-science and engineering	7,271	7,372	7,180	7,420	7,329	7,502	7,323	7,234	7,400	7,379
Education	3,752	3,832	3,687	3,690	3,801	3,755	3,561	3,602	3,783	3,625
Health	719	723	740	844	720	854	818	854	875	925
Humanities	1,980	2,046	2,033	2,106	2,083	2,175	2,226	2,042	2,052	2,059
Professional/other/unknown	820	771	720	780	725	718	718	736	690	770
U.S. citizen, all fields	27,743	27,775	28,151	28,457	27,986	27,979	27,040	26,011	26,485	26,431
Science and engineering	15,488	15,638	16,112	16,238	15,914	15,705	15,068	14,345	14,615	14,722
Science	13,102	13,042	13,373	13,673	13,428	13,484	12,921	12,453	12,711	12,781
Agricultural sciences	554	517	531	505	506	498	467	459	520	527
Biological sciences	3,494	3,546	3,670	3,756	3,660	3,904	3,899	3,797	3,791	3,955
Computer sciences	484	422	430	476	421	388	367	355	387	398
Earth, atmospheric, and ocean sciences	416	417	473	459	412	424	367	389	398	405
Mathematics	554	490	530	576	539	518	469	411	471	455
Physical sciences	2,137	2,078	2,131	2,141	2,035	1,890	1,861	1,779	1,818	1,748
Astronomy	120	137	151	132	111	127	119	104	126	113
Chemistry	1,238	1,170	1,234	1,288	1,256	1,119	1,127	1,137	1,171	1,110
Physics	764	762	731	705	657	625	602	527	500	515
Other physical sciences	15	9	15	16	11	19	13	11	21	10
Psychology	3,083	3,129	3,036	3,182	3,222	3,156	2,958	2,724	2,787	2,725
Social sciences	2,380	2,443	2,572	2,578	2,633	2,706	2,533	2,539	2,539	2,568
Engineering	2,386	2,596	2,739	2,565	2,486	2,221	2,147	1,892	1,904	1,941
Aeronautical/astronautical engineering	140	166	155	139	103	117	94	81	70	71
Chemical engineering	291	318	321	328	333	339	332	302	272	290
Civil engineering	206	212	249	246	261	221	222	210	239	190
Electrical engineering	683	708	753	638	639	532	465	424	406	419
Industrial engineering	108	107	102	84	86	67	74	71	54	63
Materials/metallurgical engineering	238	245	271	265	225	221	202	164	176	192
Mechanical engineering	383	436	456	433	399	341	386	285	287	271
Other engineering	337	404	432	432	440	383	372	355	400	445
Non-science and engineering	12,255	12,137	12,039	12,219	12,072	12,274	11,972	11,666	11,870	11,709
Education	5,777	5,879	5,582	5,573	5,636	5,555	5,334	5,286	5,513	5,305
Health	938	933	959	1,072	972	1,120	1,089	1,126	1,170	1,198
Humanities	3,748	3,728	3,946	4,023	4,008	4,159	4,113	3,914	3,896	3,808
Professional/other/unknown	1,792	1,597	1,552	1,551	1,456	1,440	1,436	1,340	1,291	1,398
Male U.S. citizen, all fields	14,965	14,720	15,047	14,872	14,514	14,155	13,642	12,855	13,077	12,986
Science and engineering	9,596	9,581	9,884	9,736	9,443	9,081	8,689	8,148	8,299	8,323
Science	7,584	7,403	7,560	7,547	7,383	7,280	6,953	6,622	6,768	6,794
Agricultural sciences	419	363	377	334	338	324	291	290	345	321
Biological sciences	2,006	1,961	2,031	2,075	2,011	2,097	2,115	2,063	2,025	2,084
Computer sciences	368	345	347	373	330	315	283	277	309	309
Earth, atmospheric, and ocean sciences	327	313	345	328	298	295	242	243	263	249
Mathematics	422	385	387	405	374	373	332	289	340	323
Physical sciences	1,617	1,611	1,658	1,629	1,564	1,408	1,394	1,288	1,316	1,289
Astronomy	99	106	126	109	87	95	92	82	97	81
Chemistry	829	837	882	895	894	744	762	752	804	765
Physics	676	661	639	616	578	556	529	449	402	440
Other physical sciences	13	7	11	9	5	13	11	5	13	3
Psychology	1,092	1,022	987	1,026	1,042	1,022	960	890	872	877
Social sciences	1,333	1,403	1,428	1,377	1,426	1,446	1,336	1,282	1,298	1,342
Engineering	2,012	2,178	2,324	2,189	2,060	1,801	1,736	1,526	1,531	1,529
Aeronautical/astronautical engineering	128	150	143	127	93	103	77	71	61	61
Chemical engineering	221	235	260	263	268	248	250	229	204	219
Civil engineering	170	175	204	196	207	179	163	161	176	135
Electrical engineering	604	625	679	572	577	463	422	379	360	366

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Industrial engineering	82	76	77	62	58	50	51	43	37	45
Materials/metallurgical engineering	185	198	213	228	176	174	155	122	141	160
Mechanical engineering	355	391	409	392	347	294	352	251	256	229
Other engineering	267	328	339	349	334	290	266	270	296	314
Non-science and engineering	5,369	5,139	5,163	5,136	5,071	5,074	4,953	4,707	4,778	4,663
Education	2,149	2,154	1,976	1,979	1,946	1,882	1,836	1,759	1,812	1,757
Health	263	248	254	273	285	309	312	315	329	325
Humanities	1,938	1,855	2,065	2,072	2,065	2,116	2,050	1,984	1,985	1,899
Professional/other/unknown	1,019	882	868	812	775	767	755	649	652	682
Female U.S. citizen, all fields	12,776	13,055	13,072	13,571	13,472	13,821	13,398	13,155	13,405	13,442
Science and engineering	5,890	6,057	6,215	6,495	6,471	6,623	6,379	6,196	6,315	6,396
Science	5,516	5,639	5,801	6,120	6,045	6,203	5,968	5,830	5,942	5,984
Agricultural sciences	135	154	153	171	168	174	176	168	175	206
Biological sciences	1,487	1,585	1,637	1,681	1,649	1,807	1,784	1,734	1,765	1,869
Computer sciences	116	77	82	103	91	73	84	78	78	89
Earth, atmospheric, and ocean sciences	89	104	127	131	114	129	125	146	135	156
Mathematics	132	105	143	171	165	145	137	122	131	132
Physical sciences	519	467	472	512	471	482	467	491	502	459
Astronomy	21	31	25	23	24	32	27	22	29	32
Chemistry	409	333	351	393	362	375	365	385	367	345
Physics	87	101	92	89	79	69	73	78	98	75
Other physical sciences	2	2	4	7	6	6	2	6	8	7
Psychology	1,991	2,107	2,044	2,151	2,180	2,133	1,998	1,834	1,915	1,847
Social sciences	1,047	1,040	1,143	1,200	1,207	1,260	1,197	1,257	1,241	1,226
Engineering	374	418	414	375	426	420	411	366	373	412
Aeronautical/astronautical engineering	12	16	12	12	10	14	17	10	9	10
Chemical engineering	70	83	61	64	65	91	82	73	68	71
Civil engineering	36	37	45	50	54	42	59	49	63	55
Electrical engineering	79	83	74	66	62	69	43	45	46	53
Industrial engineering	26	31	25	22	28	17	23	28	17	18
Materials/metallurgical engineering	53	47	58	37	49	47	47	42	35	32
Mechanical engineering	28	45	46	41	52	47	34	34	31	42
Other engineering	70	76	93	83	106	93	106	85	104	131
Non-science and engineering	6,886	6,998	6,857	7,076	7,001	7,198	7,019	6,959	7,090	7,046
Education	3,628	3,725	3,597	3,590	3,690	3,672	3,498	3,527	3,699	3,548
Health	675	685	704	799	687	811	777	811	841	873
Humanities	1,810	1,873	1,876	1,950	1,943	2,043	2,063	1,930	1,911	1,909
Professional/other/unknown	773	715	680	737	681	672	681	691	639	716
Non-U.S. citizen with permanent visa, all fields	4,317	3,765	2,931	2,702	2,308	1,950	1,838	1,650	1,634	1,528
Science and engineering	3,509	3,009	2,281	2,019	1,653	1,409	1,278	1,167	1,100	999
Science	2,553	2,216	1,688	1,540	1,250	1,059	979	895	834	758
Agricultural sciences	112	111	88	86	55	61	37	32	41	36
Biological sciences	835	818	586	552	464	364	344	315	265	232
Computer sciences	132	92	90	85	72	69	56	64	56	50
Earth, atmospheric, and ocean sciences	110	88	65	55	47	29	28	35	31	21
Mathematics	217	158	99	93	66	56	55	31	46	55
Physical sciences	704	493	366	314	242	202	184	161	152	118
Astronomy	21	12	7	15	6	12	4	5	5	2
Chemistry	386	293	205	179	150	122	103	93	94	70
Physics	295	187	152	118	85	67	75	62	52	44
Other physical sciences	2	1	2	2	1	1	2	1	1	2
Psychology	101	104	89	93	70	75	75	71	70	64
Social sciences	342	352	305	262	234	203	200	186	173	182
Engineering	956	793	593	479	403	350	299	272	266	241
Aeronautical/astronautical engineering	13	18	13	13	9	10	8	10	10	6
Chemical engineering	90	73	88	46	38	43	29	34	20	22

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Civil engineering	103	93	78	51	51	40	47	37	30	34
Electrical engineering	288	221	187	166	127	116	95	83	92	79
Industrial engineering	41	29	17	17	13	10	15	10	16	14
Materials/metallurgical engineering	114	92	44	48	35	23	23	11	24	18
Mechanical engineering	180	152	82	82	65	55	42	57	45	28
Other engineering	127	115	84	56	65	53	40	30	29	40
Non-science and engineering	808	756	650	683	655	541	560	483	534	529
Education	218	196	165	172	178	126	116	112	130	112
Health	105	83	69	82	77	75	69	68	59	73
Humanities	308	319	289	304	284	232	266	201	238	243
Professional/other/unknown	177	158	127	125	116	108	109	102	107	101
Male non-U.S. citizen with permanent visa, all fields	2,907	2,483	1,834	1,665	1,379	1,135	1,000	870	815	748
Science and engineering	2,485	2,101	1,507	1,331	1,052	899	744	662	591	552
Science	1,675	1,416	1,012	934	714	620	513	466	392	369
Agricultural sciences	87	80	66	53	38	40	19	19	16	16
Biological sciences	463	462	302	310	249	184	157	131	113	104
Computer sciences	105	78	72	64	57	56	42	45	37	36
Earth, atmospheric, and ocean sciences	80	73	48	36	32	19	18	23	21	11
Mathematics	166	118	65	65	39	36	38	19	25	33
Physical sciences	515	350	251	220	160	138	124	111	85	67
Astronomy	17	8	6	11	4	9	2	5	3	1
Chemistry	258	187	125	108	86	75	60	57	44	33
Physics	239	154	120	99	69	53	61	48	37	33
Other physical sciences	1	1	0	2	1	1	1	1	1	0
Psychology	35	26	27	32	21	30	23	26	22	18
Social sciences	224	229	181	154	118	117	92	92	73	84
Engineering	810	685	495	397	338	279	231	196	199	183
Aeronautical/astronautical engineering	13	16	13	13	9	10	6	9	8	6
Chemical engineering	72	58	72	34	28	34	18	19	16	13
Civil engineering	87	83	65	43	44	34	40	29	24	24
Electrical engineering	247	198	155	140	108	92	71	62	73	64
Industrial engineering	33	24	14	15	10	9	10	6	11	12
Materials/metallurgical engineering	88	75	31	34	30	16	16	7	14	13
Mechanical engineering	159	137	73	69	57	46	38	47	36	26
Other engineering	111	94	72	49	52	38	32	17	17	25
Non-science and engineering	422	382	327	334	327	236	256	208	224	196
Education	94	89	75	70	67	43	53	37	46	35
Health	61	45	33	37	44	32	28	25	25	21
Humanities	138	146	132	145	144	99	103	89	97	93
Professional/other/unknown	129	102	87	82	72	62	72	57	56	47
Female non-U.S. citizen with permanent visa, all fields	1,409	1,282	1,096	1,021	929	813	838	780	818	779
Science and engineering	1,024	908	773	677	601	509	534	505	508	446
Science	878	800	675	600	536	438	466	429	441	388
Agricultural sciences	25	31	22	33	17	21	18	13	25	20
Biological sciences	372	356	283	240	215	180	187	184	151	128
Computer sciences	27	14	18	20	15	13	14	19	19	13
Earth, atmospheric, and ocean sciences	30	15	17	19	15	10	10	12	10	10
Mathematics	51	40	34	27	27	19	17	12	21	22
Physical sciences	189	143	115	92	82	64	60	50	67	51
Astronomy	4	4	1	4	2	3	2	0	2	1
Chemistry	128	106	80	70	64	47	43	36	50	37
Physics	56	33	32	18	16	14	14	14	15	11
Other physical sciences	1	0	2	0	0	0	1	0	0	2
Psychology	66	78	62	61	49	45	52	45	48	46
Social sciences	118	123	124	108	116	86	108	94	100	98

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	146	108	98	77	65	71	68	76	67	58
Aeronautical/astronautical engineering	0	2	0	0	0	0	2	1	2	0
Chemical engineering	18	15	16	12	10	9	11	15	4	9
Civil engineering	16	10	13	8	7	6	7	8	6	10
Electrical engineering	41	23	32	25	19	24	24	21	19	15
Industrial engineering	8	5	3	2	3	1	5	4	5	2
Materials/metallurgical engineering	26	17	13	14	5	7	7	4	10	5
Mechanical engineering	21	15	9	9	8	9	4	10	9	2
Other engineering	16	21	12	7	13	15	8	13	12	15
Non-science and engineering	385	374	323	344	328	304	304	275	310	333
Education	124	107	90	100	111	83	63	75	84	77
Health	44	38	36	45	33	43	41	43	34	52
Humanities	170	173	157	156	140	132	163	112	141	150
Professional/other/unknown	47	56	40	43	44	46	37	45	51	54
Non-U.S. citizen with temporary visa, all fields	8,831	9,650	9,193	9,496	9,057	9,663	9,833	9,727	10,612	11,585
Science and engineering	7,007	7,836	7,509	7,776	7,238	7,660	7,964	7,690	8,407	9,122
Science	4,480	5,102	4,954	5,194	5,046	5,208	5,173	5,042	5,491	5,820
Agricultural sciences	442	470	412	480	486	444	402	433	428	413
Biological sciences	971	1,244	1,322	1,334	1,287	1,385	1,242	1,292	1,404	1,462
Computer sciences	365	377	330	328	330	363	360	349	380	459
Earth, atmospheric, and ocean sciences	160	178	211	198	215	174	210	218	193	221
Mathematics	384	443	441	447	444	443	436	440	441	526
Physical sciences	931	1,141	1,084	1,203	1,127	1,156	1,219	1,113	1,225	1,347
Astronomy	28	42	37	52	37	42	53	31	34	47
Chemistry	493	613	599	658	622	648	675	596	690	720
Physics	400	483	446	488	463	458	482	481	494	577
Other physical sciences	10	3	2	5	5	8	9	5	7	3
Psychology	165	180	137	169	153	164	153	156	197	188
Social sciences	1,062	1,069	1,017	1,035	1,004	1,079	1,151	1,041	1,223	1,204
Engineering	2,527	2,734	2,555	2,582	2,192	2,452	2,791	2,648	2,916	3,302
Aeronautical/astronautical engineering	94	93	97	71	82	74	87	106	111	116
Chemical engineering	318	401	343	373	282	307	336	326	341	365
Civil engineering	337	372	310	316	253	280	300	348	389	421
Electrical engineering	712	750	712	709	637	785	933	824	920	1,054
Industrial engineering	131	117	118	120	108	94	110	134	137	134
Materials/metallurgical engineering	224	222	244	228	194	181	250	196	260	279
Mechanical engineering	439	436	449	454	354	433	494	447	447	524
Other engineering	272	343	282	311	282	298	281	267	311	409
Non-science and engineering	1,824	1,814	1,684	1,720	1,819	2,003	1,869	2,037	2,205	2,463
Education	506	482	411	489	517	539	503	474	588	627
Health	246	268	273	286	286	306	320	323	328	366
Humanities	548	522	530	534	536	630	554	648	659	714
Professional/other/unknown	524	542	470	411	480	528	492	592	630	756
Male non-U.S. citizen with temporary visa, all fields	6,855	7,416	6,974	7,007	6,630	6,854	7,030	6,752	7,265	7,882
Science and engineering	5,748	6,329	5,976	6,006	5,588	5,796	5,999	5,724	6,159	6,677
Science	3,383	3,825	3,636	3,705	3,657	3,647	3,614	3,462	3,689	3,867
Agricultural sciences	349	357	313	366	364	327	275	316	285	261
Biological sciences	631	801	818	795	819	832	744	776	806	822
Computer sciences	322	335	292	305	283	315	313	287	312	377
Earth, atmospheric, and ocean sciences	141	152	179	163	174	129	166	179	142	163
Mathematics	305	360	366	362	366	359	326	318	336	383
Physical sciences	770	931	858	923	879	905	946	826	935	1,014
Astronomy	24	36	27	34	30	37	45	27	24	34
Chemistry	377	464	445	454	442	475	478	396	489	486
Physics	361	429	386	432	402	387	417	401	417	493
Other physical sciences	8	2	0	3	5	6	6	2	5	1

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Psychology	80	86	58	68	70	68	68	61	75	71
Social sciences	785	803	752	723	702	712	776	699	798	776
Engineering	2,365	2,504	2,340	2,301	1,931	2,149	2,385	2,262	2,470	2,810
Aeronautical/astronautical engineering	93	88	93	69	77	70	80	96	95	104
Chemical engineering	296	355	300	312	238	259	258	252	260	285
Civil engineering	314	341	288	276	227	243	258	293	332	361
Electrical engineering	668	698	674	656	575	696	806	735	808	914
Industrial engineering	115	104	107	105	97	79	95	107	106	113
Materials/metallurgical engineering	208	203	210	197	161	155	201	167	206	229
Mechanical engineering	425	419	420	424	322	398	445	400	404	475
Other engineering	246	296	248	262	234	249	242	212	259	329
Non-science and engineering	1,107	1,087	998	1,001	1,042	1,058	1,031	1,028	1,106	1,205
Education	246	244	205	249	244	244	216	193	238	259
Health	140	147	135	156	139	143	170	140	164	167
Humanities	308	280	294	272	296	296	298	305	305	314
Professional/other/unknown	413	416	364	324	363	375	347	390	399	465
Female non-U.S. citizen with temporary visa, all fields	1,959	2,221	2,204	2,469	2,423	2,808	2,802	2,969	3,333	3,697
Science and engineering	1,248	1,500	1,521	1,755	1,648	1,863	1,965	1,962	2,238	2,441
Science	1,089	1,272	1,310	1,481	1,388	1,561	1,559	1,577	1,796	1,949
Agricultural sciences	92	113	98	114	122	117	127	117	143	152
Biological sciences	335	441	504	538	468	553	498	516	595	639
Computer sciences	43	42	38	23	47	48	47	62	68	82
Earth, atmospheric, and ocean sciences	19	25	31	34	41	45	44	39	51	58
Mathematics	79	83	75	85	77	84	110	121	104	143
Physical sciences	160	209	223	279	248	251	273	286	288	332
Astronomy	4	6	10	18	7	5	8	4	10	13
Chemistry	115	148	153	203	180	173	197	200	200	233
Physics	39	54	58	56	61	71	65	79	76	84
Other physical sciences	2	1	2	2	0	2	3	3	2	2
Psychology	85	94	79	101	83	96	85	95	122	116
Social sciences	276	265	262	307	302	367	375	341	425	427
Engineering	159	228	211	274	260	302	406	385	442	492
Aeronautical/astronautical engineering	1	5	4	2	5	4	7	10	16	12
Chemical engineering	21	45	43	60	44	48	78	74	81	80
Civil engineering	23	31	21	39	26	37	42	55	55	60
Electrical engineering	44	52	36	52	62	88	127	88	111	140
Industrial engineering	16	13	11	14	11	15	15	27	31	21
Materials/metallurgical engineering	15	19	34	30	33	26	49	29	54	50
Mechanical engineering	13	16	29	29	31	35	49	47	43	49
Other engineering	26	47	33	48	48	49	39	55	51	80
Non-science and engineering	711	721	683	714	775	945	837	1,007	1,095	1,256
Education	260	237	206	239	273	295	286	280	350	367
Health	104	117	138	129	147	163	150	183	163	199
Humanities	239	242	234	260	239	334	256	342	351	399
Professional/other/unknown	108	125	105	86	116	153	145	202	231	291
Non-U.S. citizen, all fields	13,148	13,415	12,124	12,198	11,365	11,613	11,671	11,377	12,246	13,113
Science and engineering	10,516	10,845	9,790	9,795	8,891	9,069	9,242	8,857	9,507	10,121
Science	7,033	7,318	6,642	6,734	6,296	6,267	6,152	5,937	6,325	6,578
Agricultural sciences	554	581	500	566	541	505	439	465	469	449
Biological sciences	1,806	2,062	1,908	1,886	1,751	1,749	1,586	1,607	1,669	1,694
Computer sciences	497	469	420	413	402	432	416	413	436	509
Earth, atmospheric, and ocean sciences	270	266	276	253	262	203	238	253	224	242
Mathematics	601	601	540	540	510	499	491	471	487	581
Physical sciences	1,635	1,634	1,450	1,517	1,369	1,358	1,403	1,274	1,377	1,465
Astronomy	49	54	44	67	43	54	57	36	39	49
Chemistry	879	906	804	837	772	770	778	689	784	790

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	695	670	598	606	548	525	557	543	546	621
Other physical sciences	12	4	4	7	6	9	11	6	8	5
Psychology	266	284	226	262	223	239	228	227	267	252
Social sciences	1,404	1,421	1,322	1,297	1,238	1,282	1,351	1,227	1,396	1,386
Engineering	3,483	3,527	3,148	3,061	2,595	2,802	3,090	2,920	3,182	3,543
Aeronautical/astronautical engineering	107	111	110	84	91	84	95	116	121	122
Chemical engineering	408	474	431	419	320	350	365	360	361	387
Civil engineering	440	465	388	367	304	320	347	385	419	455
Electrical engineering	1,000	971	899	875	764	901	1,028	907	1,012	1,133
Industrial engineering	172	146	135	137	121	104	125	144	153	148
Materials/metallurgical engineering	338	314	288	276	229	204	273	207	284	297
Mechanical engineering	619	588	531	536	419	488	536	504	492	552
Other engineering	399	458	366	367	347	351	321	297	340	449
Non-science and engineering	2,632	2,570	2,334	2,403	2,474	2,544	2,429	2,520	2,739	2,992
Education	724	678	576	661	695	665	619	586	718	739
Health	351	351	342	368	363	381	389	391	387	439
Humanities	856	841	819	838	820	862	820	849	897	957
Professional/other/unknown	701	700	597	536	596	636	601	694	737	857
Male non-U.S. citizen, all fields	9,762	9,899	8,808	8,672	8,009	7,989	8,030	7,622	8,080	8,630
Science and engineering	8,233	8,430	7,483	7,337	6,640	6,695	6,743	6,386	6,750	7,229
Science	5,058	5,241	4,648	4,639	4,371	4,267	4,127	3,928	4,081	4,236
Agricultural sciences	436	437	379	419	402	367	294	335	301	277
Biological sciences	1,094	1,263	1,120	1,105	1,068	1,016	901	907	919	926
Computer sciences	427	413	364	369	340	371	355	332	349	413
Earth, atmospheric, and ocean sciences	221	225	227	199	206	148	184	202	163	174
Mathematics	471	478	431	427	405	395	364	337	361	416
Physical sciences	1,285	1,281	1,109	1,143	1,039	1,043	1,070	937	1,020	1,081
Astronomy	41	44	33	45	34	46	47	32	27	35
Chemistry	635	651	570	562	528	550	538	453	533	519
Physics	600	583	506	531	471	440	478	449	454	526
Other physical sciences	9	3	0	5	6	7	7	3	6	1
Psychology	115	112	85	100	91	98	91	87	97	89
Social sciences	1,009	1,032	933	877	820	829	868	791	871	860
Engineering	3,175	3,189	2,835	2,698	2,269	2,428	2,616	2,458	2,669	2,993
Aeronautical/astronautical engineering	106	104	106	82	86	80	86	105	103	110
Chemical engineering	368	413	372	346	266	293	276	271	276	298
Civil engineering	401	424	353	319	271	277	298	322	356	385
Electrical engineering	915	896	829	796	683	788	877	797	881	978
Industrial engineering	148	128	121	120	107	88	105	113	117	125
Materials/metallurgical engineering	296	278	241	231	191	171	217	174	220	242
Mechanical engineering	584	556	493	493	379	444	483	447	440	501
Other engineering	357	390	320	311	286	287	274	229	276	354
Non-science and engineering	1,529	1,469	1,325	1,335	1,369	1,294	1,287	1,236	1,330	1,401
Education	340	333	280	319	311	287	269	230	284	294
Health	201	192	168	193	183	175	198	165	189	188
Humanities	446	426	426	417	440	395	401	394	402	407
Professional/other/unknown	542	518	451	406	435	437	419	447	455	512
Female non-U.S. citizen, all fields	3,368	3,503	3,300	3,490	3,352	3,621	3,640	3,749	4,151	4,476
Science and engineering	2,272	2,408	2,294	2,432	2,249	2,372	2,499	2,467	2,746	2,887
Science	1,967	2,072	1,985	2,081	1,924	1,999	2,025	2,006	2,237	2,337
Agricultural sciences	117	144	120	147	139	138	145	130	168	172
Biological sciences	707	797	787	778	683	733	685	700	746	767
Computer sciences	70	56	56	43	62	61	61	81	87	95
Earth, atmospheric, and ocean sciences	49	40	48	53	56	55	54	51	61	68
Mathematics	130	123	109	112	104	103	127	133	125	165

TABLE 3. Doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	349	352	338	371	330	315	333	336	355	383
Astronomy	8	10	11	22	9	8	10	4	12	14
Chemistry	243	254	233	273	244	220	240	236	250	270
Physics	95	87	90	74	77	85	79	93	91	95
Other physical sciences	3	1	4	2	0	2	4	3	2	4
Psychology	151	172	141	162	132	141	137	140	170	162
Social sciences	394	388	386	415	418	453	483	435	525	525
Engineering	305	336	309	351	325	373	474	461	509	550
Aeronautical/astronautical engineering	1	7	4	2	5	4	9	11	18	12
Chemical engineering	39	60	59	72	54	57	89	89	85	89
Civil engineering	39	41	34	47	33	43	49	63	61	70
Electrical engineering	85	75	68	77	81	112	151	109	130	155
Industrial engineering	24	18	14	16	14	16	20	31	36	23
Materials/metallurgical engineering	41	36	47	44	38	33	56	33	64	55
Mechanical engineering	34	31	38	38	39	44	53	57	52	51
Other engineering	42	68	45	55	61	64	47	68	63	95
Non-science and engineering	1,096	1,095	1,006	1,058	1,103	1,249	1,141	1,282	1,405	1,589
Education	384	344	296	339	384	378	349	355	434	444
Health	148	155	174	174	180	206	191	226	197	251
Humanities	409	415	391	416	379	466	419	454	492	549
Professional/other/unknown	155	181	145	129	160	199	182	247	282	345
Citizenship unknown, all fields	859	1,249	2,266	1,992	1,741	1,773	2,113	2,601	2,039	2,611
Science and engineering	532	758	1,330	1,245	1,128	1,192	1,238	1,386	1,167	1,432
Science	393	572	1,102	947	879	894	970	1,122	975	1,140
Agricultural sciences	9	20	47	39	18	35	69	85	72	70
Biological sciences	76	116	211	203	171	201	206	286	237	288
Computer sciences	16	29	59	38	33	39	43	39	42	42
Earth, atmospheric, and ocean sciences	13	28	33	29	32	36	25	31	24	25
Mathematics	35	31	53	61	34	33	47	36	36	39
Physical sciences	69	127	188	166	175	159	130	159	130	140
Astronomy	4	1	3	7	5	4	10	4	3	3
Chemistry	45	73	110	91	104	100	76	97	86	87
Physics	20	53	72	67	66	54	38	57	34	50
Other physical sciences	0	0	3	1	0	1	6	1	7	0
Psychology	80	82	295	231	223	223	256	248	227	359
Social sciences	95	139	216	180	193	168	194	238	207	177
Engineering	139	186	228	298	249	298	268	264	192	292
Aeronautical/astronautical engineering	5	10	8	18	12	13	14	12	9	8
Chemical engineering	9	6	15	29	21	36	32	43	15	46
Civil engineering	10	21	18	37	19	15	25	31	16	30
Electrical engineering	48	62	68	83	75	111	83	64	48	97
Industrial engineering	4	6	9	8	4	5	7	15	6	6
Materials/metallurgical engineering	12	15	23	24	15	26	22	25	14	20
Mechanical engineering	23	28	35	53	37	35	31	38	35	30
Other engineering	28	38	52	46	66	57	54	36	49	55
Non-science and engineering	327	491	936	747	613	581	875	1,215	872	1,179
Education	149	228	416	337	215	210	384	615	401	591
Health	40	40	120	60	72	91	144	136	79	93
Humanities	87	143	269	255	206	192	228	247	222	252
Professional/other/unknown	51	80	131	95	120	88	119	217	170	243
Male, citizenship unknown, all fields	434	667	1,088	1,089	911	1,022	1,121	1,294	1,044	1,360
Science and engineering	288	443	716	737	652	745	742	840	679	853
Science	205	322	559	513	477	515	527	653	526	625
Agricultural sciences	2	13	27	28	9	28	44	58	39	46
Biological sciences	32	63	111	114	92	113	117	173	141	171
Computer sciences	13	17	32	23	22	30	31	29	32	27

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Science and engineering	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	77.4	76.8	77.5	78.3	79.4	79.5	78.5	79.4	79.1	78.0
Agricultural sciences	4.2	4.1	4.0	4.1	4.1	4.0	3.8	4.1	4.2	4.0
Biological sciences	20.3	21.0	21.3	21.4	21.5	22.5	22.3	23.1	22.5	22.6
Computer sciences	3.8	3.4	3.3	3.4	3.3	3.3	3.2	3.3	3.4	3.6
Earth, atmospheric, and ocean sciences	2.6	2.6	2.9	2.7	2.7	2.6	2.5	2.7	2.6	2.6
Mathematics	4.5	4.1	4.1	4.3	4.2	4.0	3.9	3.7	3.9	4.1
Physical sciences	14.5	14.1	13.8	14.0	13.8	13.1	13.3	13.1	13.1	12.8
Astronomy	0.7	0.7	0.7	0.8	0.6	0.7	0.7	0.6	0.7	0.6
Chemistry	8.1	7.9	7.9	8.1	8.2	7.7	7.8	7.8	8.1	7.6
Physics	5.6	5.5	5.1	5.1	4.9	4.6	4.7	4.6	4.3	4.5
Other physical sciences	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	12.9	12.8	13.1	13.5	14.1	13.9	13.5	13.0	13.0	12.7
Social sciences	14.6	14.7	15.1	14.9	15.7	16.0	16.0	16.3	16.4	15.7
Engineering	22.6	23.2	22.5	21.7	20.6	20.5	21.5	20.6	20.9	22.0
Aeronautical/astronautical engineering	0.9	1.1	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.8
Chemical engineering	2.7	2.9	2.8	2.8	2.6	2.8	2.9	2.9	2.6	2.8
Civil engineering	2.5	2.6	2.4	2.4	2.3	2.1	2.3	2.5	2.7	2.6
Electrical engineering	6.5	6.4	6.3	5.9	5.7	5.9	6.2	5.7	5.8	6.3
Industrial engineering	1.1	1.0	0.9	0.8	0.8	0.7	0.8	0.9	0.8	0.8
Materials/metallurgical engineering	2.2	2.1	2.1	2.1	1.8	1.7	1.9	1.6	1.9	1.9
Mechanical engineering	3.9	3.9	3.8	3.7	3.3	3.3	3.7	3.4	3.2	3.2
Other engineering	2.9	3.3	3.1	3.1	3.3	3.0	2.9	2.8	3.1	3.6
Male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	70.9	70.3	70.6	71.3	73.1	73.0	71.8	72.9	72.3	71.0
Agricultural sciences	4.7	4.4	4.3	4.4	4.5	4.4	3.9	4.4	4.4	3.9
Biological sciences	17.3	17.8	18.0	18.5	18.9	19.5	19.4	20.4	19.6	19.4
Computer sciences	4.5	4.2	4.1	4.3	4.1	4.3	4.1	4.1	4.4	4.6
Earth, atmospheric, and ocean sciences	3.1	3.0	3.3	3.1	3.1	2.9	2.7	3.1	2.8	2.7
Mathematics	5.1	4.8	4.7	4.9	4.8	4.8	4.5	4.2	4.6	4.7
Physical sciences	16.2	16.1	16.0	16.2	16.3	15.5	15.8	15.3	15.4	15.1
Astronomy	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.7
Chemistry	8.2	8.3	8.4	8.5	8.9	8.2	8.3	8.3	8.8	8.2
Physics	7.1	7.0	6.6	6.7	6.6	6.3	6.4	6.2	5.6	6.1
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
Psychology	6.9	6.3	6.4	6.8	7.2	7.3	7.0	6.9	6.6	6.6
Social sciences	13.2	13.7	13.7	13.2	14.0	14.3	14.4	14.4	14.5	14.1
Engineering	29.1	29.7	29.4	28.7	26.9	27.0	28.2	27.1	27.7	29.0
Aeronautical/astronautical engineering	1.3	1.4	1.4	1.3	1.1	1.2	1.1	1.2	1.1	1.1
Chemical engineering	3.3	3.5	3.5	3.5	3.3	3.5	3.4	3.4	3.1	3.3
Civil engineering	3.2	3.3	3.2	3.1	3.0	2.8	3.0	3.3	3.5	3.3
Electrical engineering	8.5	8.4	8.6	8.0	7.8	8.1	8.5	8.0	8.1	8.7
Industrial engineering	1.3	1.1	1.1	1.1	1.0	0.8	1.0	1.1	1.0	1.1
Materials/metallurgical engineering	2.7	2.6	2.6	2.7	2.2	2.2	2.4	2.0	2.4	2.6
Mechanical engineering	5.3	5.2	5.1	5.2	4.5	4.6	5.3	4.7	4.6	4.6
Other engineering	3.5	4.0	3.8	3.9	4.0	3.7	3.6	3.4	3.9	4.3
Female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	91.6	91.0	91.6	91.7	91.3	91.1	90.0	90.3	90.5	89.7
Agricultural sciences	3.1	3.5	3.2	3.5	3.4	3.4	3.6	3.5	3.9	4.1
Biological sciences	26.8	27.9	27.9	27.1	26.4	27.9	27.3	27.8	27.4	28.0
Computer sciences	2.2	1.6	1.7	1.7	1.7	1.5	1.7	1.8	1.8	2.0
Earth, atmospheric, and ocean sciences	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.3
Mathematics	3.2	2.7	2.9	3.2	3.0	2.8	3.0	2.9	2.8	3.1
Physical sciences	10.6	9.7	9.5	9.9	9.1	8.9	9.0	9.4	9.4	8.9
Astronomy	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.5
Chemistry	8.0	7.0	6.9	7.4	7.0	6.6	6.7	7.1	6.8	6.4

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	2.2	2.2	2.2	1.9	1.8	1.7	1.7	1.9	2.0	1.9
Other physical sciences	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	26.3	26.9	26.4	26.3	27.0	25.7	24.7	23.3	23.5	22.9
Social sciences	17.7	16.9	17.8	18.0	18.7	19.0	18.8	19.4	19.5	18.5
Engineering	8.4	9.0	8.4	8.3	8.7	8.9	10.0	9.7	9.5	10.3
Aeronautical/astronautical engineering	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2
Chemical engineering	1.3	1.7	1.4	1.5	1.4	1.6	1.9	1.9	1.6	1.8
Civil engineering	0.9	0.9	0.9	1.1	1.0	0.9	1.2	1.3	1.3	1.3
Electrical engineering	2.1	2.0	1.7	1.7	1.7	2.1	2.2	1.8	1.9	2.3
Industrial engineering	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.7	0.6	0.4
Materials/metallurgical engineering	1.1	1.0	1.2	0.9	1.0	0.9	1.1	0.9	1.1	0.9
Mechanical engineering	0.8	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9	1.0
Other engineering	1.4	1.7	1.7	1.6	2.0	1.8	1.8	1.8	1.8	2.4
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	82.4	81.8	81.9	83.3	83.6	85.0	85.0	86.0	86.2	86.1
Agricultural sciences	3.5	3.4	3.4	3.2	3.2	3.3	3.1	3.2	3.6	3.6
Biological sciences	22.8	23.4	23.1	23.6	23.5	24.9	26.0	26.5	25.8	26.6
Computer sciences	3.2	2.8	2.8	3.1	2.8	2.7	2.6	2.7	2.8	2.8
Earth, atmospheric, and ocean sciences	2.8	2.7	2.9	2.8	2.6	2.6	2.4	2.7	2.7	2.7
Mathematics	4.1	3.5	3.4	3.7	3.4	3.4	3.2	2.8	3.3	3.2
Physical sciences	15.0	13.8	13.6	13.4	13.0	12.2	12.5	12.5	12.5	11.9
Astronomy	0.7	0.8	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7
Chemistry	8.5	7.8	7.8	8.0	8.0	7.3	7.5	7.9	8.0	7.5
Physics	5.6	5.1	4.8	4.5	4.2	4.0	4.1	3.8	3.5	3.6
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	16.8	17.3	17.0	17.9	18.7	18.9	18.6	18.0	18.2	17.7
Social sciences	14.3	15.0	15.6	15.6	16.3	17.0	16.7	17.6	17.3	17.5
Engineering	17.6	18.2	18.1	16.7	16.4	15.0	15.0	14.0	13.8	13.9
Aeronautical/astronautical engineering	0.8	1.0	0.9	0.8	0.6	0.7	0.6	0.6	0.5	0.5
Chemical engineering	2.0	2.1	2.2	2.0	2.1	2.2	2.2	2.2	1.9	2.0
Civil engineering	1.6	1.6	1.8	1.6	1.8	1.5	1.6	1.6	1.7	1.4
Electrical engineering	5.1	5.0	5.1	4.4	4.4	3.8	3.4	3.3	3.2	3.2
Industrial engineering	0.8	0.7	0.6	0.6	0.6	0.4	0.5	0.5	0.4	0.5
Materials/metallurgical engineering	1.9	1.8	1.7	1.7	1.5	1.4	1.4	1.1	1.3	1.3
Mechanical engineering	3.0	3.2	2.9	2.8	2.6	2.3	2.6	2.2	2.1	1.9
Other engineering	2.4	2.8	2.8	2.7	2.9	2.5	2.5	2.5	2.7	3.1
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	76.6	75.5	75.3	76.6	77.2	79.2	79.1	80.5	80.5	80.7
Agricultural sciences	4.2	3.8	3.9	3.5	3.6	3.6	3.3	3.5	4.1	3.8
Biological sciences	20.4	20.7	20.5	21.6	21.5	22.9	24.1	24.9	24.0	24.7
Computer sciences	3.9	3.6	3.7	3.9	3.7	3.7	3.4	3.7	3.9	3.9
Earth, atmospheric, and ocean sciences	3.4	3.3	3.5	3.3	3.1	3.1	2.8	3.0	3.2	2.9
Mathematics	4.9	4.3	4.0	4.2	3.9	4.1	3.9	3.5	4.1	4.0
Physical sciences	17.6	16.8	16.8	16.7	16.4	15.5	16.1	15.9	15.8	15.3
Astronomy	1.0	1.0	1.2	1.1	0.9	1.0	1.0	1.0	1.1	0.9
Chemistry	9.0	8.8	8.8	9.1	9.3	8.2	8.7	9.2	9.5	9.0
Physics	7.6	7.0	6.7	6.5	6.2	6.1	6.3	5.6	4.9	5.3
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
Psychology	9.3	9.0	8.9	9.6	10.1	10.5	10.4	10.4	10.1	10.1
Social sciences	12.9	14.0	14.1	13.8	14.7	15.7	15.1	15.6	15.4	16.1
Engineering	23.4	24.5	24.7	23.4	22.8	20.8	20.9	19.5	19.5	19.3
Aeronautical/astronautical engineering	1.2	1.4	1.4	1.3	1.0	1.1	0.9	0.9	0.8	0.8
Chemical engineering	2.4	2.5	2.9	2.7	2.8	2.8	2.8	2.8	2.5	2.6
Civil engineering	2.1	2.2	2.4	2.2	2.4	2.1	2.2	2.2	2.2	1.8
Electrical engineering	7.0	7.0	7.3	6.4	6.5	5.6	5.2	5.0	4.9	4.8

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Industrial engineering	1.0	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.6
Materials/metallurgical engineering	2.3	2.3	2.1	2.4	2.0	1.9	1.8	1.5	1.7	1.9
Mechanical engineering	4.3	4.5	4.2	4.2	3.8	3.4	4.1	3.4	3.3	2.9
Other engineering	3.1	3.6	3.6	3.6	3.7	3.3	3.2	3.3	3.5	3.8
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	92.5	92.4	92.7	93.7	93.1	93.1	93.1	93.4	93.6	93.1
Agricultural sciences	2.3	2.7	2.5	2.8	2.6	2.7	2.8	2.7	2.9	3.3
Biological sciences	26.9	27.9	27.5	26.8	26.4	27.9	28.5	28.6	28.1	29.2
Computer sciences	2.1	1.3	1.4	1.7	1.5	1.2	1.4	1.4	1.4	1.5
Earth, atmospheric, and ocean sciences	1.7	1.7	2.1	2.1	1.8	1.9	2.0	2.4	2.1	2.4
Mathematics	2.6	2.1	2.5	2.8	2.7	2.3	2.2	2.0	2.2	2.3
Physical sciences	10.2	8.8	8.4	8.4	7.8	7.7	7.6	8.1	8.3	7.5
Astronomy	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.5	0.5
Chemistry	7.8	6.3	6.2	6.5	6.0	5.9	5.9	6.3	6.1	5.6
Physics	2.1	1.9	1.8	1.5	1.3	1.2	1.3	1.4	1.7	1.3
Other physical sciences	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
Psychology	29.8	31.4	30.1	30.8	31.5	30.5	29.7	28.0	28.8	27.7
Social sciences	16.8	16.7	18.1	18.2	18.7	18.9	18.9	20.2	19.7	19.4
Engineering	7.5	7.6	7.3	6.3	6.9	6.9	6.9	6.6	6.4	6.9
Aeronautical/astronautical engineering	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.1
Chemical engineering	1.3	1.4	1.1	1.1	1.1	1.4	1.3	1.3	1.1	1.2
Civil engineering	0.8	0.7	0.8	0.8	0.9	0.7	1.0	0.9	1.0	1.0
Electrical engineering	1.7	1.5	1.5	1.3	1.1	1.3	1.0	1.0	1.0	1.0
Industrial engineering	0.5	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.3	0.3
Materials/metallurgical engineering	1.1	0.9	1.0	0.7	0.8	0.8	0.8	0.7	0.7	0.5
Mechanical engineering	0.7	0.9	0.8	0.7	0.8	0.8	0.5	0.7	0.6	0.6
Other engineering	1.2	1.4	1.5	1.3	1.7	1.5	1.6	1.5	1.7	2.1
U.S. citizen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	84.6	83.4	83.0	84.2	84.4	85.9	85.8	86.8	87.0	86.8
Agricultural sciences	3.6	3.3	3.3	3.1	3.2	3.2	3.1	3.2	3.6	3.6
Biological sciences	22.6	22.7	22.8	23.1	23.0	24.9	25.9	26.5	25.9	26.9
Computer sciences	3.1	2.7	2.7	2.9	2.6	2.5	2.4	2.5	2.6	2.7
Earth, atmospheric, and ocean sciences	2.7	2.7	2.9	2.8	2.6	2.7	2.4	2.7	2.7	2.8
Mathematics	3.6	3.1	3.3	3.5	3.4	3.3	3.1	2.9	3.2	3.1
Physical sciences	13.8	13.3	13.2	13.2	12.8	12.0	12.4	12.4	12.4	11.9
Astronomy	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.9	0.8
Chemistry	8.0	7.5	7.7	7.9	7.9	7.1	7.5	7.9	8.0	7.5
Physics	4.9	4.9	4.5	4.3	4.1	4.0	4.0	3.7	3.4	3.5
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Psychology	19.9	20.0	18.8	19.6	20.2	20.1	19.6	19.0	19.1	18.5
Social sciences	15.4	15.6	16.0	15.9	16.5	17.2	16.8	17.7	17.4	17.4
Engineering	15.4	16.6	17.0	15.8	15.6	14.1	14.2	13.2	13.0	13.2
Aeronautical/astronautical engineering	0.9	1.1	1.0	0.9	0.6	0.7	0.6	0.6	0.5	0.5
Chemical engineering	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.1	1.9	2.0
Civil engineering	1.3	1.4	1.5	1.5	1.6	1.4	1.5	1.5	1.6	1.3
Electrical engineering	4.4	4.5	4.7	3.9	4.0	3.4	3.1	3.0	2.8	2.8
Industrial engineering	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.4
Materials/metallurgical engineering	1.5	1.6	1.7	1.6	1.4	1.4	1.3	1.1	1.2	1.3
Mechanical engineering	2.5	2.8	2.8	2.7	2.5	2.2	2.6	2.0	2.0	1.8
Other engineering	2.2	2.6	2.7	2.7	2.8	2.4	2.5	2.5	2.7	3.0
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	79.0	77.3	76.5	77.5	78.2	80.2	80.0	81.3	81.6	81.6
Agricultural sciences	4.4	3.8	3.8	3.4	3.6	3.6	3.3	3.6	4.2	3.9
Biological sciences	20.9	20.5	20.5	21.3	21.3	23.1	24.3	25.3	24.4	25.0
Computer sciences	3.8	3.6	3.5	3.8	3.5	3.5	3.3	3.4	3.7	3.7

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Earth, atmospheric, and ocean sciences	3.4	3.3	3.5	3.4	3.2	3.2	2.8	3.0	3.2	3.0
Mathematics	4.4	4.0	3.9	4.2	4.0	4.1	3.8	3.5	4.1	3.9
Physical sciences	16.9	16.8	16.8	16.7	16.6	15.5	16.0	15.8	15.9	15.5
Astronomy	1.0	1.1	1.3	1.1	0.9	1.0	1.1	1.0	1.2	1.0
Chemistry	8.6	8.7	8.9	9.2	9.5	8.2	8.8	9.2	9.7	9.2
Physics	7.0	6.9	6.5	6.3	6.1	6.1	6.1	5.5	4.8	5.3
Other physical sciences	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
Psychology	11.4	10.7	10.0	10.5	11.0	11.3	11.0	10.9	10.5	10.5
Social sciences	13.9	14.6	14.4	14.1	15.1	15.9	15.4	15.7	15.6	16.1
Engineering	21.0	22.7	23.5	22.5	21.8	19.8	20.0	18.7	18.4	18.4
Aeronautical/astronautical engineering	1.3	1.6	1.4	1.3	1.0	1.1	0.9	0.9	0.7	0.7
Chemical engineering	2.3	2.5	2.6	2.7	2.8	2.7	2.9	2.8	2.5	2.6
Civil engineering	1.8	1.8	2.1	2.0	2.2	2.0	1.9	2.0	2.1	1.6
Electrical engineering	6.3	6.5	6.9	5.9	6.1	5.1	4.9	4.7	4.3	4.4
Industrial engineering	0.9	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.4	0.5
Materials/metallurgical engineering	1.9	2.1	2.2	2.3	1.9	1.9	1.8	1.5	1.7	1.9
Mechanical engineering	3.7	4.1	4.1	4.0	3.7	3.2	4.1	3.1	3.1	2.8
Other engineering	2.8	3.4	3.4	3.6	3.5	3.2	3.1	3.3	3.6	3.8
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	93.7	93.1	93.3	94.2	93.4	93.7	93.6	94.1	94.1	93.6
Agricultural sciences	2.3	2.5	2.5	2.6	2.6	2.6	2.8	2.7	2.8	3.2
Biological sciences	25.2	26.2	26.3	25.9	25.5	27.3	28.0	28.0	27.9	29.2
Computer sciences	2.0	1.3	1.3	1.6	1.4	1.1	1.3	1.3	1.2	1.4
Earth, atmospheric, and ocean sciences	1.5	1.7	2.0	2.0	1.8	1.9	2.0	2.4	2.1	2.4
Mathematics	2.2	1.7	2.3	2.6	2.5	2.2	2.1	2.0	2.1	2.1
Physical sciences	8.8	7.7	7.6	7.9	7.3	7.3	7.3	7.9	7.9	7.2
Astronomy	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5
Chemistry	6.9	5.5	5.6	6.1	5.6	5.7	5.7	6.2	5.8	5.4
Physics	1.5	1.7	1.5	1.4	1.2	1.0	1.1	1.3	1.6	1.2
Other physical sciences	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
Psychology	33.8	34.8	32.9	33.1	33.7	32.2	31.3	29.6	30.3	28.9
Social sciences	17.8	17.2	18.4	18.5	18.7	19.0	18.8	20.3	19.7	19.2
Engineering	6.3	6.9	6.7	5.8	6.6	6.3	6.4	5.9	5.9	6.4
Aeronautical/astronautical engineering	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2
Chemical engineering	1.2	1.4	1.0	1.0	1.0	1.4	1.3	1.2	1.1	1.1
Civil engineering	0.6	0.6	0.7	0.8	0.8	0.6	0.9	0.8	1.0	0.9
Electrical engineering	1.3	1.4	1.2	1.0	1.0	1.0	0.7	0.7	0.7	0.8
Industrial engineering	0.4	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.3	0.3
Materials/metallurgical engineering	0.9	0.8	0.9	0.6	0.8	0.7	0.7	0.7	0.6	0.5
Mechanical engineering	0.5	0.7	0.7	0.6	0.8	0.7	0.5	0.5	0.5	0.7
Other engineering	1.2	1.3	1.5	1.3	1.6	1.4	1.7	1.4	1.6	2.0
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	72.8	73.6	74.0	76.3	75.6	75.2	76.6	76.7	75.8	75.9
Agricultural sciences	3.2	3.7	3.9	4.3	3.3	4.3	2.9	2.7	3.7	3.6
Biological sciences	23.8	27.2	25.7	27.3	28.1	25.8	26.9	27.0	24.1	23.2
Computer sciences	3.8	3.1	3.9	4.2	4.4	4.9	4.4	5.5	5.1	5.0
Earth, atmospheric, and ocean sciences	3.1	2.9	2.8	2.7	2.8	2.1	2.2	3.0	2.8	2.1
Mathematics	6.2	5.3	4.3	4.6	4.0	4.0	4.3	2.7	4.2	5.5
Physical sciences	20.1	16.4	16.0	15.6	14.6	14.3	14.4	13.8	13.8	11.8
Astronomy	0.6	0.4	0.3	0.7	0.4	0.9	0.3	0.4	0.5	0.2
Chemistry	11.0	9.7	9.0	8.9	9.1	8.7	8.1	8.0	8.5	7.0
Physics	8.4	6.2	6.7	5.8	5.1	4.8	5.9	5.3	4.7	4.4
Other physical sciences	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
Psychology	2.9	3.5	3.9	4.6	4.2	5.3	5.9	6.1	6.4	6.4
Social sciences	9.7	11.7	13.4	13.0	14.2	14.4	15.6	15.9	15.7	18.2

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	27.2	26.4	26.0	23.7	24.4	24.8	23.4	23.3	24.2	24.1
Aeronautical/astronautical engineering	0.4	0.6	0.6	0.6	0.5	0.7	0.6	0.9	0.9	0.6
Chemical engineering	2.6	2.4	3.9	2.3	2.3	3.1	2.3	2.9	1.8	2.2
Civil engineering	2.9	3.1	3.4	2.5	3.1	2.8	3.7	3.2	2.7	3.4
Electrical engineering	8.2	7.3	8.2	8.2	7.7	8.2	7.4	7.1	8.4	7.9
Industrial engineering	1.2	1.0	0.7	0.8	0.8	0.7	1.2	0.9	1.5	1.4
Materials/metallurgical engineering	3.2	3.1	1.9	2.4	2.1	1.6	1.8	0.9	2.2	1.8
Mechanical engineering	5.1	5.1	3.6	4.1	3.9	3.9	3.3	4.9	4.1	2.8
Other engineering	3.6	3.8	3.7	2.8	3.9	3.8	3.1	2.6	2.6	4.0
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	67.4	67.2	70.2	67.9	69.0	69.0	70.4	66.3	66.8
Agricultural sciences	3.5	3.8	4.4	4.0	3.6	4.4	2.6	2.9	2.7	2.9
Biological sciences	18.6	22.0	20.0	23.3	23.7	20.5	21.1	19.8	19.1	18.8
Computer sciences	4.2	3.7	4.8	4.8	5.4	6.2	5.6	6.8	6.3	6.5
Earth, atmospheric, and ocean sciences	3.2	3.5	3.2	2.7	3.0	2.1	2.4	3.5	3.6	2.0
Mathematics	6.7	5.6	4.3	4.9	3.7	4.0	5.1	2.9	4.2	6.0
Physical sciences	20.7	16.7	16.7	16.5	15.2	15.4	16.7	16.8	14.4	12.1
Astronomy	0.7	0.4	0.4	0.8	0.4	1.0	0.3	0.8	0.5	0.2
Chemistry	10.4	8.9	8.3	8.1	8.2	8.3	8.1	8.6	7.4	6.0
Physics	9.6	7.3	8.0	7.4	6.6	5.9	8.2	7.3	6.3	6.0
Other physical sciences	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.0
Psychology	1.4	1.2	1.8	2.4	2.0	3.3	3.1	3.9	3.7	3.3
Social sciences	9.0	10.9	12.0	11.6	11.2	13.0	12.4	13.9	12.4	15.2
Engineering	32.6	32.6	32.8	29.8	32.1	31.0	31.0	29.6	33.7	33.2
Aeronautical/astronautical engineering	0.5	0.8	0.9	1.0	0.9	1.1	0.8	1.4	1.4	1.1
Chemical engineering	2.9	2.8	4.8	2.6	2.7	3.8	2.4	2.9	2.7	2.4
Civil engineering	3.5	4.0	4.3	3.2	4.2	3.8	5.4	4.4	4.1	4.3
Electrical engineering	9.9	9.4	10.3	10.5	10.3	10.2	9.5	9.4	12.4	11.6
Industrial engineering	1.3	1.1	0.9	1.1	1.0	1.0	1.3	0.9	1.9	2.2
Materials/metallurgical engineering	3.5	3.6	2.1	2.6	2.9	1.8	2.2	1.1	2.4	2.4
Mechanical engineering	6.4	6.5	4.8	5.2	5.4	5.1	5.1	7.1	6.1	4.7
Other engineering	4.5	4.5	4.8	3.7	4.9	4.2	4.3	2.6	2.9	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	85.7	88.1	87.3	88.6	89.2	86.1	87.3	85.0	86.8	87.0
Agricultural sciences	2.4	3.4	2.8	4.9	2.8	4.1	3.4	2.6	4.9	4.5
Biological sciences	36.3	39.2	36.6	35.5	35.8	35.4	35.0	36.4	29.7	28.7
Computer sciences	2.6	1.5	2.3	3.0	2.5	2.6	2.6	3.8	3.7	2.9
Earth, atmospheric, and ocean sciences	2.9	1.7	2.2	2.8	2.5	2.0	1.9	2.4	2.0	2.2
Mathematics	5.0	4.4	4.4	4.0	4.5	3.7	3.2	2.4	4.1	4.9
Physical sciences	18.5	15.7	14.9	13.6	13.6	12.6	11.2	9.9	13.2	11.4
Astronomy	0.4	0.4	0.1	0.6	0.3	0.6	0.4	0.0	0.4	0.2
Chemistry	12.5	11.7	10.3	10.3	10.6	9.2	8.1	7.1	9.8	8.3
Physics	5.5	3.6	4.1	2.7	2.7	2.8	2.6	2.8	3.0	2.5
Other physical sciences	0.1	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.4
Psychology	6.4	8.6	8.0	9.0	8.2	8.8	9.7	8.9	9.4	10.3
Social sciences	11.5	13.5	16.0	16.0	19.3	16.9	20.2	18.6	19.7	22.0
Engineering	14.3	11.9	12.7	11.4	10.8	13.9	12.7	15.0	13.2	13.0
Aeronautical/astronautical engineering	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.4	0.0
Chemical engineering	1.8	1.7	2.1	1.8	1.7	1.8	2.1	3.0	0.8	2.0
Civil engineering	1.6	1.1	1.7	1.2	1.2	1.2	1.3	1.6	1.2	2.2
Electrical engineering	4.0	2.5	4.1	3.7	3.2	4.7	4.5	4.2	3.7	3.4
Industrial engineering	0.8	0.6	0.4	0.3	0.5	0.2	0.9	0.8	1.0	0.4
Materials/metallurgical engineering	2.5	1.9	1.7	2.1	0.8	1.4	1.3	0.8	2.0	1.1
Mechanical engineering	2.1	1.7	1.2	1.3	1.3	1.8	0.7	2.0	1.8	0.4
Other engineering	1.6	2.3	1.6	1.0	2.2	2.9	1.5	2.6	2.4	3.4

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
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	63.9	65.1	66.0	66.8	69.7	68.0	65.0	65.6	65.3	63.8
Agricultural sciences	6.3	6.0	5.5	6.2	6.7	5.8	5.0	5.6	5.1	4.5
Biological sciences	13.9	15.9	17.6	17.2	17.8	18.1	15.6	16.8	16.7	16.0
Computer sciences	5.2	4.8	4.4	4.2	4.6	4.7	4.5	4.5	4.5	5.0
Earth, atmospheric, and ocean sciences	2.3	2.3	2.8	2.5	3.0	2.3	2.6	2.8	2.3	2.4
Mathematics	5.5	5.7	5.9	5.7	6.1	5.8	5.5	5.7	5.2	5.8
Physical sciences	13.3	14.6	14.4	15.5	15.6	15.1	15.3	14.5	14.6	14.8
Astronomy	0.4	0.5	0.5	0.7	0.5	0.5	0.7	0.4	0.4	0.5
Chemistry	7.0	7.8	8.0	8.5	8.6	8.5	8.5	7.8	8.2	7.9
Physics	5.7	6.2	5.9	6.3	6.4	6.0	6.1	6.3	5.9	6.3
Other physical sciences	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Psychology	2.4	2.3	1.8	2.2	2.1	2.1	1.9	2.0	2.3	2.1
Social sciences	15.2	13.6	13.5	13.3	13.9	14.1	14.5	13.5	14.5	13.2
Engineering	36.1	34.9	34.0	33.2	30.3	32.0	35.0	34.4	34.7	36.2
Aeronautical/astronautical engineering	1.3	1.2	1.3	0.9	1.1	1.0	1.1	1.4	1.3	1.3
Chemical engineering	4.5	5.1	4.6	4.8	3.9	4.0	4.2	4.2	4.1	4.0
Civil engineering	4.8	4.7	4.1	4.1	3.5	3.7	3.8	4.5	4.6	4.6
Electrical engineering	10.2	9.6	9.5	9.1	8.8	10.2	11.7	10.7	10.9	11.6
Industrial engineering	1.9	1.5	1.6	1.5	1.5	1.2	1.4	1.7	1.6	1.5
Materials/metallurgical engineering	3.2	2.8	3.2	2.9	2.7	2.4	3.1	2.5	3.1	3.1
Mechanical engineering	6.3	5.6	6.0	5.8	4.9	5.7	6.2	5.8	5.3	5.7
Other engineering	3.9	4.4	3.8	4.0	3.9	3.9	3.5	3.5	3.7	4.5
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	58.9	60.4	60.8	61.7	65.4	62.9	60.2	60.5	59.9	57.9
Agricultural sciences	6.1	5.6	5.2	6.1	6.5	5.6	4.6	5.5	4.6	3.9
Biological sciences	11.0	12.7	13.7	13.2	14.7	14.4	12.4	13.6	13.1	12.3
Computer sciences	5.6	5.3	4.9	5.1	5.1	5.4	5.2	5.0	5.1	5.6
Earth, atmospheric, and ocean sciences	2.5	2.4	3.0	2.7	3.1	2.2	2.8	3.1	2.3	2.4
Mathematics	5.3	5.7	6.1	6.0	6.5	6.2	5.4	5.6	5.5	5.7
Physical sciences	13.4	14.7	14.4	15.4	15.7	15.6	15.8	14.4	15.2	15.2
Astronomy	0.4	0.6	0.5	0.6	0.5	0.6	0.8	0.5	0.4	0.5
Chemistry	6.6	7.3	7.4	7.6	7.9	8.2	8.0	6.9	7.9	7.3
Physics	6.3	6.8	6.5	7.2	7.2	6.7	7.0	7.0	6.8	7.4
Other physical sciences	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
Psychology	1.4	1.4	1.0	1.1	1.3	1.2	1.1	1.1	1.2	1.1
Social sciences	13.7	12.7	12.6	12.0	12.6	12.3	12.9	12.2	13.0	11.6
Engineering	41.1	39.6	39.2	38.3	34.6	37.1	39.8	39.5	40.1	42.1
Aeronautical/astronautical engineering	1.6	1.4	1.6	1.1	1.4	1.2	1.3	1.7	1.5	1.6
Chemical engineering	5.1	5.6	5.0	5.2	4.3	4.5	4.3	4.4	4.2	4.3
Civil engineering	5.5	5.4	4.8	4.6	4.1	4.2	4.3	5.1	5.4	5.4
Electrical engineering	11.6	11.0	11.3	10.9	10.3	12.0	13.4	12.8	13.1	13.7
Industrial engineering	2.0	1.6	1.8	1.7	1.7	1.4	1.6	1.9	1.7	1.7
Materials/metallurgical engineering	3.6	3.2	3.5	3.3	2.9	2.7	3.4	2.9	3.3	3.4
Mechanical engineering	7.4	6.6	7.0	7.1	5.8	6.9	7.4	7.0	6.6	7.1
Other engineering	4.3	4.7	4.1	4.4	4.2	4.3	4.0	3.7	4.2	4.9
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	87.3	84.8	86.1	84.4	84.2	83.8	79.3	80.4	80.3	79.8
Agricultural sciences	7.4	7.5	6.4	6.5	7.4	6.3	6.5	6.0	6.4	6.2
Biological sciences	26.8	29.4	33.1	30.7	28.4	29.7	25.3	26.3	26.6	26.2
Computer sciences	3.4	2.8	2.5	1.3	2.9	2.6	2.4	3.2	3.0	3.4
Earth, atmospheric, and ocean sciences	1.5	1.7	2.0	1.9	2.5	2.4	2.2	2.0	2.3	2.4
Mathematics	6.3	5.5	4.9	4.8	4.7	4.5	5.6	6.2	4.6	5.9
Physical sciences	12.8	13.9	14.7	15.9	15.0	13.5	13.9	14.6	12.9	13.6
Astronomy	0.3	0.4	0.7	1.0	0.4	0.3	0.4	0.2	0.4	0.5

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Chemistry	9.2	9.9	10.1	11.6	10.9	9.3	10.0	10.2	8.9	9.5
Physics	3.1	3.6	3.8	3.2	3.7	3.8	3.3	4.0	3.4	3.4
Other physical sciences	0.2	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.1
Psychology	6.8	6.3	5.2	5.8	5.0	5.2	4.3	4.8	5.5	4.8
Social sciences	22.1	17.7	17.2	17.5	18.3	19.7	19.1	17.4	19.0	17.5
Engineering	12.7	15.2	13.9	15.6	15.8	16.2	20.7	19.6	19.7	20.2
Aeronautical/astronautical engineering	0.1	0.3	0.3	0.1	0.3	0.2	0.4	0.5	0.7	0.5
Chemical engineering	1.7	3.0	2.8	3.4	2.7	2.6	4.0	3.8	3.6	3.3
Civil engineering	1.8	2.1	1.4	2.2	1.6	2.0	2.1	2.8	2.5	2.5
Electrical engineering	3.5	3.5	2.4	3.0	3.8	4.7	6.5	4.5	5.0	5.7
Industrial engineering	1.3	0.9	0.7	0.8	0.7	0.8	0.8	1.4	1.4	0.9
Materials/metallurgical engineering	1.2	1.3	2.2	1.7	2.0	1.4	2.5	1.5	2.4	2.0
Mechanical engineering	1.0	1.1	1.9	1.7	1.9	1.9	2.5	2.4	1.9	2.0
Other engineering	2.1	3.1	2.2	2.7	2.9	2.6	2.0	2.8	2.3	3.3
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	66.9	67.5	67.8	68.7	70.8	69.1	66.6	67.0	66.5	65.0
Agricultural sciences	5.3	5.4	5.1	5.8	6.1	5.6	4.8	5.3	4.9	4.4
Biological sciences	17.2	19.0	19.5	19.3	19.7	19.3	17.2	18.1	17.6	16.7
Computer sciences	4.7	4.3	4.3	4.2	4.5	4.8	4.5	4.7	4.6	5.0
Earth, atmospheric, and ocean sciences	2.6	2.5	2.8	2.6	2.9	2.2	2.6	2.9	2.4	2.4
Mathematics	5.7	5.5	5.5	5.5	5.7	5.5	5.3	5.3	5.1	5.7
Physical sciences	15.5	15.1	14.8	15.5	15.4	15.0	15.2	14.4	14.5	14.5
Astronomy	0.5	0.5	0.4	0.7	0.5	0.6	0.6	0.4	0.4	0.5
Chemistry	8.4	8.4	8.2	8.5	8.7	8.5	8.4	7.8	8.2	7.8
Physics	6.6	6.2	6.1	6.2	6.2	5.8	6.0	6.1	5.7	6.1
Other physical sciences	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Psychology	2.5	2.6	2.3	2.7	2.5	2.6	2.5	2.6	2.8	2.5
Social sciences	13.4	13.1	13.5	13.2	13.9	14.1	14.6	13.9	14.7	13.7
Engineering	33.1	32.5	32.2	31.3	29.2	30.9	33.4	33.0	33.5	35.0
Aeronautical/astronautical engineering	1.0	1.0	1.1	0.9	1.0	0.9	1.0	1.3	1.3	1.2
Chemical engineering	3.9	4.4	4.4	4.3	3.6	3.9	3.9	4.1	3.8	3.8
Civil engineering	4.2	4.3	4.0	3.7	3.4	3.5	3.8	4.3	4.4	4.5
Electrical engineering	9.5	9.0	9.2	8.9	8.6	9.9	11.1	10.2	10.6	11.2
Industrial engineering	1.6	1.3	1.4	1.4	1.4	1.1	1.4	1.6	1.6	1.5
Materials/metallurgical engineering	3.2	2.9	2.9	2.8	2.6	2.2	3.0	2.3	3.0	2.9
Mechanical engineering	5.9	5.4	5.4	5.5	4.7	5.4	5.8	5.7	5.2	5.5
Other engineering	3.8	4.2	3.7	3.7	3.9	3.9	3.5	3.4	3.6	4.4
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	61.4	62.2	62.1	63.2	65.8	63.7	61.2	61.5	60.5	58.6
Agricultural sciences	5.3	5.2	5.1	5.7	6.1	5.5	4.4	5.2	4.5	3.8
Biological sciences	13.3	15.0	15.0	15.1	16.1	15.2	13.4	14.2	13.6	12.8
Computer sciences	5.2	4.9	4.9	5.0	5.1	5.5	5.3	5.2	5.2	5.7
Earth, atmospheric, and ocean sciences	2.7	2.7	3.0	2.7	3.1	2.2	2.7	3.2	2.4	2.4
Mathematics	5.7	5.7	5.8	5.8	6.1	5.9	5.4	5.3	5.3	5.8
Physical sciences	15.6	15.2	14.8	15.6	15.6	15.6	15.9	14.7	15.1	15.0
Astronomy	0.5	0.5	0.4	0.6	0.5	0.7	0.7	0.5	0.4	0.5
Chemistry	7.7	7.7	7.6	7.7	8.0	8.2	8.0	7.1	7.9	7.2
Physics	7.3	6.9	6.8	7.2	7.1	6.6	7.1	7.0	6.7	7.3
Other physical sciences	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0
Psychology	1.4	1.3	1.1	1.4	1.4	1.5	1.3	1.4	1.4	1.2
Social sciences	12.3	12.2	12.5	12.0	12.3	12.4	12.9	12.4	12.9	11.9
Engineering	38.6	37.8	37.9	36.8	34.2	36.3	38.8	38.5	39.5	41.4
Aeronautical/astronautical engineering	1.3	1.2	1.4	1.1	1.3	1.2	1.3	1.6	1.5	1.5
Chemical engineering	4.5	4.9	5.0	4.7	4.0	4.4	4.1	4.2	4.1	4.1
Civil engineering	4.9	5.0	4.7	4.3	4.1	4.1	4.4	5.0	5.3	5.3

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Electrical engineering	11.1	10.6	11.1	10.8	10.3	11.8	13.0	12.5	13.1	13.5
Industrial engineering	1.8	1.5	1.6	1.6	1.6	1.3	1.6	1.8	1.7	1.7
Materials/metallurgical engineering	3.6	3.3	3.2	3.1	2.9	2.6	3.2	2.7	3.3	3.3
Mechanical engineering	7.1	6.6	6.6	6.7	5.7	6.6	7.2	7.0	6.5	6.9
Other engineering	4.3	4.6	4.3	4.2	4.3	4.3	4.1	3.6	4.1	4.9
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	86.6	86.0	86.5	85.6	85.5	84.3	81.0	81.3	81.5	80.9
Agricultural sciences	5.1	6.0	5.2	6.0	6.2	5.8	5.8	5.3	6.1	6.0
Biological sciences	31.1	33.1	34.3	32.0	30.4	30.9	27.4	28.4	27.2	26.6
Computer sciences	3.1	2.3	2.4	1.8	2.8	2.6	2.4	3.3	3.2	3.3
Earth, atmospheric, and ocean sciences	2.2	1.7	2.1	2.2	2.5	2.3	2.2	2.1	2.2	2.4
Mathematics	5.7	5.1	4.8	4.6	4.6	4.3	5.1	5.4	4.6	5.7
Physical sciences	15.4	14.6	14.7	15.3	14.7	13.3	13.3	13.6	12.9	13.3
Astronomy	0.4	0.4	0.5	0.9	0.4	0.3	0.4	0.2	0.4	0.5
Chemistry	10.7	10.5	10.2	11.2	10.8	9.3	9.6	9.6	9.1	9.4
Physics	4.2	3.6	3.9	3.0	3.4	3.6	3.2	3.8	3.3	3.3
Other physical sciences	0.1	0.0	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.1
Psychology	6.6	7.1	6.1	6.7	5.9	5.9	5.5	5.7	6.2	5.6
Social sciences	17.3	16.1	16.8	17.1	18.6	19.1	19.3	17.6	19.1	18.2
Engineering	13.4	14.0	13.5	14.4	14.5	15.7	19.0	18.7	18.5	19.1
Aeronautical/astronautical engineering	0.0	0.3	0.2	0.1	0.2	0.2	0.4	0.4	0.7	0.4
Chemical engineering	1.7	2.5	2.6	3.0	2.4	2.4	3.6	3.6	3.1	3.1
Civil engineering	1.7	1.7	1.5	1.9	1.5	1.8	2.0	2.6	2.2	2.4
Electrical engineering	3.7	3.1	3.0	3.2	3.6	4.7	6.0	4.4	4.7	5.4
Industrial engineering	1.1	0.7	0.6	0.7	0.6	0.7	0.8	1.3	1.3	0.8
Materials/metallurgical engineering	1.8	1.5	2.0	1.8	1.7	1.4	2.2	1.3	2.3	1.9
Mechanical engineering	1.5	1.3	1.7	1.6	1.7	1.9	2.1	2.3	1.9	1.8
Other engineering	1.8	2.8	2.0	2.3	2.7	2.7	1.9	2.8	2.3	3.3
Citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	73.9	75.5	82.9	76.1	77.9	75.0	78.4	81.0	83.5	79.6
Agricultural sciences	1.7	2.6	3.5	3.1	1.6	2.9	5.6	6.1	6.2	4.9
Biological sciences	14.3	15.3	15.9	16.3	15.2	16.9	16.6	20.6	20.3	20.1
Computer sciences	3.0	3.8	4.4	3.1	2.9	3.3	3.5	2.8	3.6	2.9
Earth, atmospheric, and ocean sciences	2.4	3.7	2.5	2.3	2.8	3.0	2.0	2.2	2.1	1.7
Mathematics	6.6	4.1	4.0	4.9	3.0	2.8	3.8	2.6	3.1	2.7
Physical sciences	13.0	16.8	14.1	13.3	15.5	13.3	10.5	11.5	11.1	9.8
Astronomy	0.8	0.1	0.2	0.6	0.4	0.3	0.8	0.3	0.3	0.2
Chemistry	8.5	9.6	8.3	7.3	9.2	8.4	6.1	7.0	7.4	6.1
Physics	3.8	7.0	5.4	5.4	5.9	4.5	3.1	4.1	2.9	3.5
Other physical sciences	0.0	0.0	0.2	0.1	0.0	0.1	0.5	0.1	0.6	0.0
Psychology	15.0	10.8	22.2	18.6	19.8	18.7	20.7	17.9	19.5	25.1
Social sciences	17.9	18.3	16.2	14.5	17.1	14.1	15.7	17.2	17.7	12.4
Engineering	26.1	24.5	17.1	23.9	22.1	25.0	21.6	19.0	16.5	20.4
Aeronautical/astronautical engineering	0.9	1.3	0.6	1.4	1.1	1.1	1.1	0.9	0.8	0.6
Chemical engineering	1.7	0.8	1.1	2.3	1.9	3.0	2.6	3.1	1.3	3.2
Civil engineering	1.9	2.8	1.4	3.0	1.7	1.3	2.0	2.2	1.4	2.1
Electrical engineering	9.0	8.2	5.1	6.7	6.6	9.3	6.7	4.6	4.1	6.8
Industrial engineering	0.8	0.8	0.7	0.6	0.4	0.4	0.6	1.1	0.5	0.4
Materials/metallurgical engineering	2.3	2.0	1.7	1.9	1.3	2.2	1.8	1.8	1.2	1.4
Mechanical engineering	4.3	3.7	2.6	4.3	3.3	2.9	2.5	2.7	3.0	2.1
Other engineering	5.3	5.0	3.9	3.7	5.9	4.8	4.4	2.6	4.2	3.8
Male, citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	71.2	72.7	78.1	69.6	73.2	69.1	71.0	77.7	77.5	73.3
Agricultural sciences	0.7	2.9	3.8	3.8	1.4	3.8	5.9	6.9	5.7	5.4
Biological sciences	11.1	14.2	15.5	15.5	14.1	15.2	15.8	20.6	20.8	20.0

TABLE 4. Percentage distribution of science and engineering doctorates awarded, by sex, citizenship status, and major field of study of recipients: 1995–2004

Characteristic and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	4.5	3.8	4.5	3.1	3.4	4.0	4.2	3.5	4.7	3.2
Earth, atmospheric, and ocean sciences	2.4	3.8	3.2	3.0	3.1	4.0	1.9	3.1	2.5	2.5
Mathematics	9.0	4.1	4.6	5.4	3.7	3.0	4.7	2.9	4.1	3.6
Physical sciences	14.6	17.6	17.6	14.5	19.9	15.6	11.7	14.4	12.4	12.4
Astronomy	1.0	0.2	0.3	0.9	0.8	0.5	0.8	0.2	0.4	0.4
Chemistry	8.3	8.6	9.9	7.1	10.9	9.0	6.6	8.3	7.2	8.0
Physics	5.2	8.8	7.1	6.5	8.3	5.9	3.9	5.7	3.8	4.1
Other physical sciences	0.0	0.0	0.3	0.0	0.0	0.1	0.4	0.1	0.9	0.0
Psychology	13.2	6.3	12.6	10.9	11.7	11.3	10.9	10.0	10.8	14.1
Social sciences	15.6	19.9	16.3	13.4	16.0	12.3	15.9	16.4	16.5	12.1
Engineering	28.8	27.3	21.9	30.4	26.8	30.9	29.0	22.3	22.5	26.7
Aeronautical/astronautical engineering	1.0	1.8	0.7	2.2	1.4	1.1	1.5	1.0	1.2	0.7
Chemical engineering	2.8	1.1	1.3	2.8	2.5	4.0	2.8	3.2	1.8	3.8
Civil engineering	1.4	3.8	2.0	3.9	2.6	1.3	2.8	2.5	1.9	2.5
Electrical engineering	9.0	7.9	7.3	8.3	7.7	11.8	9.8	5.7	5.6	9.0
Industrial engineering	0.3	0.9	1.0	0.8	0.6	0.3	0.5	0.7	0.3	0.5
Materials/metallurgical engineering	2.8	1.6	2.2	2.4	1.4	3.0	2.7	2.3	1.8	2.0
Mechanical engineering	5.2	3.6	3.6	5.0	3.8	3.9	3.4	3.7	4.4	3.3
Other engineering	6.3	6.5	3.9	4.9	6.9	5.5	5.4	3.2	5.6	5.0
Female, citizenship unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	86.4	87.5	93.6	88.6	89.8	88.9	90.3	87.7	96.6	90.3
Agricultural sciences	3.2	3.3	3.3	2.4	1.1	1.3	4.0	4.0	6.5	3.7
Biological sciences	18.4	17.9	16.7	18.2	17.1	20.6	17.7	22.4	21.2	20.7
Computer sciences	0.0	3.3	2.8	3.1	1.1	1.8	2.2	1.4	2.4	2.1
Earth, atmospheric, and ocean sciences	3.2	2.7	1.6	1.2	2.5	0.8	2.2	1.0	1.4	0.7
Mathematics	2.4	1.6	2.6	3.3	2.2	2.8	2.6	2.0	1.7	1.5
Physical sciences	8.0	12.5	9.9	10.2	8.3	9.5	8.4	6.9	8.9	5.2
Astronomy	0.8	0.0	0.2	0.0	0.0	0.0	0.9	0.4	0.0	0.0
Chemistry	7.2	9.8	6.8	6.9	7.2	7.3	5.1	5.2	7.7	2.6
Physics	0.0	2.7	2.6	3.3	1.1	2.3	1.8	1.2	1.0	2.6
Other physical sciences	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.2	0.0
Psychology	31.2	27.7	41.9	33.9	37.8	34.4	37.7	32.1	34.9	44.0
Social sciences	20.0	18.5	14.8	16.4	19.6	17.8	15.5	17.9	19.7	12.3
Engineering	13.6	12.5	6.4	11.4	10.2	11.1	9.7	12.3	3.4	9.7
Aeronautical/astronautical engineering	0.8	0.5	0.0	0.2	0.6	0.8	0.4	0.6	0.0	0.4
Chemical engineering	0.0	0.0	0.5	0.9	1.1	0.8	2.0	2.8	0.2	2.4
Civil engineering	0.8	0.5	0.2	0.7	0.6	0.8	0.7	1.6	0.2	1.3
Electrical engineering	7.2	6.0	1.9	3.1	3.3	3.5	2.0	1.8	0.7	2.6
Industrial engineering	0.0	1.1	0.2	0.5	0.0	0.5	0.4	1.6	0.0	0.2
Materials/metallurgical engineering	0.8	0.5	0.2	0.7	0.3	0.8	0.4	1.0	0.5	0.6
Mechanical engineering	1.6	1.1	0.9	3.3	1.4	1.3	0.9	1.0	0.2	0.4
Other engineering	2.4	2.7	2.4	1.9	3.0	2.8	2.9	1.8	1.4	1.9

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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	32,060	31,540	31,082	31,159	30,294	29,929	28,878	27,661	28,119	27,959
Science and engineering	18,997	18,647	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
Science	15,655	15,258	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
Agricultural sciences	666	628	619	591	561	559	504	491	561	563
Biological sciences	4,329	4,364	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
Computer sciences	616	514	520	561	493	457	423	419	443	448
Earth, atmospheric, and ocean sciences	526	505	538	514	459	453	395	424	429	426
Mathematics	771	648	629	669	605	574	524	442	517	510
Physical sciences	2,841	2,571	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
Astronomy	141	149	158	147	117	139	123	109	131	115
Chemistry	1,624	1,463	1,439	1,467	1,406	1,241	1,230	1,230	1,265	1,180
Physics	1,059	949	883	823	742	692	677	589	552	559
Other physical sciences	17	10	17	18	12	20	15	12	22	12
Psychology	3,184	3,233	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
Social sciences	2,722	2,795	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
Engineering	3,342	3,389	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
Chemical engineering	381	391	409	374	371	382	361	336	292	312
Civil engineering	309	305	327	297	312	261	269	247	269	224
Electrical engineering	971	929	940	804	766	648	560	507	498	498
Mechanical engineering	563	588	538	515	464	396	428	342	332	299
Other engineering	1,118	1,176	1,118	1,054	976	884	828	732	779	849
Non-science and engineering	13,063	12,893	12,689	12,902	12,727	12,815	12,532	12,149	12,404	12,238
Education	5,995	6,075	5,747	5,745	5,814	5,681	5,450	5,398	5,643	5,417
Health	1,043	1,016	1,028	1,154	1,049	1,195	1,158	1,194	1,229	1,271
Humanities	4,056	4,047	4,235	4,327	4,292	4,391	4,379	4,115	4,134	4,051
Professional/other/unknown	1,969	1,755	1,679	1,676	1,572	1,548	1,545	1,442	1,398	1,499
American Indian/Alaska Native, all fields	148	186	167	189	214	169	150	150	137	131
Science and engineering	68	95	79	96	114	88	73	70	73	61
Science	59	81	62	83	102	80	67	63	61	55
Agricultural sciences	2	7	5	9	1	5	0	2	4	4
Biological sciences	15	20	7	12	20	17	15	12	11	14
Computer sciences	0	4	1	4	1	1	1	2	2	2
Earth, atmospheric, and ocean sciences	0	1	2	3	6	4	0	0	2	4
Mathematics	2	1	1	3	1	2	2	3	2	0
Physical sciences	8	6	10	9	9	9	12	7	2	5
Astronomy	0	0	1	1	1	1	1	0	0	0
Chemistry	6	4	6	7	5	7	11	5	2	4
Physics	2	2	2	1	3	1	0	2	0	1
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Psychology	14	17	18	31	35	22	17	15	22	13
Social sciences	18	25	18	12	29	20	20	22	16	13
Engineering	9	14	17	13	12	8	6	7	12	6
Chemical engineering	2	1	4	3	2	1	1	2	1	2
Civil engineering	0	2	2	0	2	1	0	0	1	3
Electrical engineering	1	2	5	3	1	0	1	0	5	1
Mechanical engineering	2	3	6	2	2	3	1	1	1	0
Other engineering	4	6	0	5	5	3	3	4	4	0
Non-science and engineering	80	91	88	93	100	81	77	80	64	70
Education	41	60	51	50	58	51	42	46	40	46
Health	9	4	6	4	6	4	6	3	2	3
Humanities	18	18	19	21	21	20	21	20	15	13
Professional/other/unknown	12	9	12	18	15	6	8	11	7	8
Asian, all fields ^a	4,297	3,674	3,109	2,707	2,495	2,272	2,173	2,109	2,025	2,054
Science and engineering	3,659	3,079	2,529	2,135	1,932	1,706	1,617	1,616	1,511	1,491
Science	2,627	2,183	1,822	1,581	1,420	1,267	1,195	1,208	1,171	1,137
Agricultural sciences	84	87	73	54	50	36	23	29	25	31

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	920	885	721	657	608	539	546	561	526	488
Computer sciences	137	111	107	90	87	76	61	86	80	72
Earth, atmospheric, and ocean sciences	98	70	60	44	35	22	27	24	21	11
Mathematics	207	140	97	71	56	70	48	28	51	54
Physical sciences	749	501	400	331	252	203	197	194	183	162
Astronomy	22	12	8	13	3	13	6	13	8	8
Chemistry	415	295	234	206	183	121	123	122	112	110
Physics	311	193	157	111	66	68	68	59	62	44
Other physical sciences	1	1	1	1	0	1	0	0	1	0
Psychology	121	121	126	113	132	145	116	119	118	153
Social sciences	311	268	238	221	200	176	177	167	167	166
Engineering	1,032	896	707	554	512	439	422	408	340	354
Chemical engineering	101	80	73	65	58	69	53	70	46	58
Civil engineering	91	89	72	38	46	43	37	29	20	35
Electrical engineering	322	276	256	205	172	141	133	130	130	109
Mechanical engineering	188	166	113	89	88	72	75	70	50	47
Other engineering	330	285	193	157	148	114	124	109	94	105
Non-science and engineering	638	595	580	572	563	566	556	493	514	563
Education	179	180	180	177	166	173	146	138	150	155
Health	93	87	87	83	87	99	107	91	86	94
Humanities	192	187	179	192	193	176	181	168	181	204
Professional/other/unknown	174	141	134	120	117	118	122	96	97	110
Black/African American, all fields	1,461	1,446	1,474	1,604	1,763	1,748	1,732	1,750	1,799	1,971
Science and engineering	550	572	615	644	715	710	703	685	664	746
Science	480	498	517	563	617	629	611	600	587	652
Agricultural sciences	19	26	26	22	27	22	14	13	22	20
Biological sciences	107	98	112	111	116	118	139	124	108	148
Computer sciences	11	12	4	14	19	18	15	17	17	17
Earth, atmospheric, and ocean sciences	1	2	6	5	11	3	5	5	11	7
Mathematics	5	8	7	16	12	14	19	14	16	10
Physical sciences	42	59	51	56	66	62	55	67	57	59
Astronomy	1	0	2	1	2	1	1	1	1	0
Chemistry	33	45	35	45	56	44	42	44	42	46
Physics	8	14	14	10	8	16	12	22	12	13
Other physical sciences	0	0	0	0	0	1	0	0	2	0
Psychology	149	152	152	158	172	189	174	171	169	204
Social sciences	146	141	159	181	194	203	190	189	187	187
Engineering	70	74	98	81	98	81	92	85	77	94
Chemical engineering	3	12	16	3	11	8	17	12	9	10
Civil engineering	11	8	10	9	6	6	11	13	9	7
Electrical engineering	24	22	31	23	30	21	22	16	21	33
Mechanical engineering	13	10	12	13	12	18	17	17	9	18
Other engineering	19	22	29	33	39	28	25	27	29	26
Non-science and engineering	911	874	859	960	1,048	1,038	1,029	1,065	1,135	1,225
Education	623	607	553	655	689	693	670	692	758	787
Health	60	48	55	65	57	75	64	72	79	107
Humanities	115	116	141	139	164	158	168	160	154	169
Professional/other/unknown	113	103	110	101	138	112	127	141	144	162
Hispanic, all fields ^b	1,064	1,113	1,198	1,327	1,324	1,308	1,272	1,369	1,426	1,297
Science and engineering	573	626	658	754	722	729	674	724	741	715
Science	496	527	562	644	639	647	583	627	638	627
Agricultural sciences	24	13	27	35	16	29	26	21	25	16
Biological sciences	127	131	146	168	175	173	165	182	176	191
Computer sciences	6	16	16	15	14	14	8	14	10	13
Earth, atmospheric, and ocean sciences	10	19	15	16	20	15	9	14	15	11
Mathematics	15	11	20	27	15	15	15	12	16	26

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	73	67	69	54	63	78	65	64	72	62
Astronomy	4	2	3	2	1	3	7	4	3	6
Chemistry	43	36	44	34	46	51	43	38	45	43
Physics	26	29	22	18	16	23	15	22	24	13
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	146	173	171	208	215	211	175	185	170	170
Social sciences	95	97	98	121	121	112	120	135	154	138
Engineering	77	99	96	110	83	82	91	97	103	88
Chemical engineering	13	19	7	13	7	18	7	16	16	12
Civil engineering	11	6	12	16	12	9	9	8	13	20
Electrical engineering	15	27	26	31	30	22	22	31	23	15
Mechanical engineering	8	13	14	19	9	12	21	12	13	10
Other engineering	30	34	37	31	25	21	32	30	38	31
Non-science and engineering	491	487	540	573	602	579	598	645	685	582
Education	258	218	257	290	303	284	275	320	338	271
Health	30	38	32	37	46	34	30	33	44	47
Humanities	154	178	208	198	197	208	230	241	247	207
Professional/other/unknown	49	53	43	48	56	53	63	51	56	57
Mexican American, all fields	291	293	306	424	350	415	403	414	481	455
Science and engineering	151	149	161	223	164	214	187	188	223	231
Science	132	121	143	193	151	188	169	171	204	207
Agricultural sciences	5	2	2	10	3	7	5	7	8	6
Biological sciences	28	28	44	54	41	46	47	53	54	58
Computer sciences	3	1	2	3	1	4	2	3	3	3
Earth, atmospheric, and ocean sciences	3	5	3	5	5	4	4	4	0	3
Mathematics	6	2	3	6	7	8	6	2	5	8
Physical sciences	13	23	15	21	16	23	16	16	26	21
Astronomy	1	1	0	1	0	1	3	1	1	2
Chemistry	8	15	9	15	9	17	7	7	19	14
Physics	4	7	6	5	7	5	6	8	6	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	48	38	49	53	43	61	56	51	52	52
Social sciences	26	22	25	41	35	35	33	35	56	56
Engineering	19	28	18	30	13	26	18	17	19	24
Chemical engineering	3	4	3	1	0	4	0	3	4	3
Civil engineering	7	2	2	5	3	4	1	1	1	5
Electrical engineering	3	9	5	7	4	4	8	4	3	5
Mechanical engineering	2	4	2	3	1	6	4	3	2	0
Other engineering	4	9	6	14	5	8	5	6	9	11
Non-science and engineering	140	144	145	201	186	201	216	226	258	224
Education	93	79	90	116	103	115	116	140	159	129
Health	8	6	7	15	16	11	7	9	13	9
Humanities	34	41	38	59	49	62	70	65	66	70
Professional/other/unknown	5	18	10	11	18	13	23	12	20	16
Puerto Rican, all fields	269	252	313	308	335	329	303	345	261	258
Science and engineering	137	142	171	173	184	185	155	196	148	139
Science	124	120	148	156	161	165	142	170	129	120
Agricultural sciences	4	4	4	3	1	6	6	9	3	4
Biological sciences	30	32	36	43	47	33	48	56	35	50
Computer sciences	0	5	6	2	6	5	1	4	2	4
Earth, atmospheric, and ocean sciences	1	3	6	5	5	5	1	3	4	5
Mathematics	1	3	4	7	2	2	2	3	3	2
Physical sciences	21	12	20	11	22	20	14	20	17	16
Astronomy	1	0	0	1	0	0	0	1	1	0
Chemistry	17	9	13	9	18	19	11	11	14	15

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	3	3	7	1	4	1	3	8	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	44	48	56	71	57	74	45	50	47	19
Social sciences	23	13	16	14	21	20	25	25	18	20
Engineering	13	22	23	17	23	20	13	26	19	19
Chemical engineering	4	4	1	3	2	5	2	8	4	1
Civil engineering	1	1	5	1	2	2	2	1	4	7
Electrical engineering	3	4	4	3	11	6	2	7	4	4
Mechanical engineering	1	3	6	5	2	2	1	3	2	3
Other engineering	4	10	7	5	6	5	6	7	5	4
Non-science and engineering	132	110	142	135	151	144	148	149	113	119
Education	69	52	72	77	90	75	88	79	52	56
Health	12	7	10	7	11	9	5	9	4	16
Humanities	30	38	49	37	31	44	41	51	42	35
Professional/other/unknown	21	13	11	14	19	16	14	10	15	12
Other Hispanic, all fields	504	568	579	595	639	564	566	610	684	584
Science and engineering	285	335	326	358	374	330	332	340	370	345
Science	240	286	271	295	327	294	272	286	305	300
Agricultural sciences	15	7	21	22	12	16	15	5	14	6
Biological sciences	69	71	66	71	87	94	70	73	87	83
Computer sciences	3	10	8	10	7	5	5	7	5	6
Earth, atmospheric, and ocean sciences	6	11	6	6	10	6	4	7	11	3
Mathematics	8	6	13	14	6	5	7	7	8	16
Physical sciences	39	32	34	22	25	35	35	28	29	25
Astronomy	2	1	3	0	1	2	4	2	1	4
Chemistry	18	12	22	10	19	15	25	20	12	14
Physics	19	19	9	12	5	17	6	6	16	7
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	54	87	66	84	115	76	74	84	71	99
Social sciences	46	62	57	66	65	57	62	75	80	62
Engineering	45	49	55	63	47	36	60	54	65	45
Chemical engineering	6	11	3	9	5	9	5	5	8	8
Civil engineering	3	3	5	10	7	3	6	6	8	8
Electrical engineering	9	14	17	21	15	12	12	20	16	6
Mechanical engineering	5	6	6	11	6	4	16	6	9	7
Other engineering	22	15	24	12	14	8	21	17	24	16
Non-science and engineering	219	233	253	237	265	234	234	270	314	239
Education	96	87	95	97	110	94	71	101	127	86
Health	10	25	15	15	19	14	18	15	27	22
Humanities	90	99	121	102	117	102	119	125	139	102
Professional/other/unknown	23	22	22	23	19	24	26	29	21	29
White, all fields	24,686	24,670	23,962	24,274	23,894	23,710	22,688	21,396	21,542	21,395
Science and engineering	13,887	13,996	13,828	14,004	13,719	13,443	12,760	11,913	12,024	12,018
Science	11,795	11,733	11,540	11,834	11,609	11,554	11,008	10,436	10,464	10,476
Agricultural sciences	528	485	465	454	456	452	430	416	465	465
Biological sciences	3,115	3,170	3,158	3,246	3,128	3,308	3,255	3,118	3,059	3,184
Computer sciences	450	356	361	412	356	336	322	290	307	321
Earth, atmospheric, and ocean sciences	409	406	434	427	376	393	338	365	361	367
Mathematics	535	478	479	526	506	464	428	369	408	398
Physical sciences	1,923	1,886	1,884	1,916	1,840	1,691	1,649	1,548	1,554	1,479
Astronomy	111	131	132	120	109	115	103	87	105	93
Chemistry	1,111	1,062	1,078	1,129	1,090	988	974	988	1,002	921
Physics	687	684	659	651	630	571	557	461	429	453
Other physical sciences	14	9	15	16	11	17	15	12	18	12
Psychology	2,722	2,744	2,523	2,646	2,701	2,607	2,454	2,229	2,263	2,141
Social sciences	2,113	2,208	2,236	2,207	2,246	2,303	2,132	2,101	2,047	2,121

TABLE 5. Doctorates awarded to U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	2,092	2,263	2,288	2,170	2,110	1,889	1,752	1,477	1,560	1,542
Chemical engineering	256	274	293	275	286	280	272	223	210	216
Civil engineering	194	199	220	217	241	194	194	185	217	155
Electrical engineering	590	589	579	523	510	443	368	306	296	312
Mechanical engineering	339	392	377	371	336	279	302	226	246	210
Other engineering	713	809	819	784	737	693	616	537	591	649
Non-science and engineering	10,799	10,674	10,134	10,270	10,175	10,267	9,928	9,483	9,518	9,377
Education	4,848	4,940	4,458	4,406	4,505	4,374	4,200	4,039	4,158	4,006
Health	832	822	828	929	837	961	922	969	970	974
Humanities	3,514	3,483	3,523	3,604	3,616	3,703	3,624	3,374	3,348	3,299
Professional/other/unknown	1,605	1,429	1,325	1,331	1,217	1,229	1,182	1,101	1,042	1,098
Other/unknown, all fields ^c	404	451	1,172	1,058	604	722	863	887	1,190	1,111
Science and engineering	260	279	684	624	365	438	519	504	702	690
Science	198	236	558	508	291	366	436	414	624	592
Agricultural sciences	9	10	23	17	11	15	11	10	20	27
Biological sciences	45	60	112	114	77	113	123	115	176	162
Computer sciences	12	15	31	26	16	12	16	10	27	23
Earth, atmospheric, and ocean sciences	8	7	21	19	11	16	16	16	19	26
Mathematics	7	10	25	26	15	9	12	16	24	22
Physical sciences	46	52	83	89	47	49	67	60	102	99
Astronomy	3	4	12	10	1	6	5	4	14	8
Chemistry	16	21	42	46	26	30	37	33	62	56
Physics	25	27	29	32	19	13	25	23	25	35
Other physical sciences	2	0	0	1	1	0	0	0	1	0
Psychology	32	26	135	119	37	57	97	76	115	108
Social sciences	39	56	128	98	77	95	94	111	141	125
Engineering	62	43	126	116	74	72	83	90	78	98
Chemical engineering	6	5	16	15	7	6	11	13	10	14
Civil engineering	2	1	11	17	5	8	18	12	9	4
Electrical engineering	19	13	43	19	23	21	14	24	23	28
Mechanical engineering	13	4	16	21	17	12	12	16	13	14
Other engineering	22	20	40	44	22	25	28	25	23	38
Non-science and engineering	144	172	488	434	239	284	344	383	488	421
Education	46	70	248	167	93	106	117	163	199	152
Health	19	17	20	36	16	22	29	26	48	46
Humanities	63	65	165	173	101	126	155	152	189	159
Professional/other/unknown	16	20	55	58	29	30	43	42	52	64

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	17,872	17,203	16,881	16,537	15,893	15,290	14,642	13,725	13,892	13,734
Science and engineering	12,081	11,682	11,391	11,067	10,495	9,980	9,433	8,810	8,890	8,875
Science	9,259	8,819	8,572	8,481	8,097	7,900	7,466	7,088	7,160	7,163
Agricultural sciences	506	443	443	387	376	364	310	309	361	337
Biological sciences	2,469	2,423	2,333	2,385	2,260	2,281	2,272	2,194	2,138	2,188
Computer sciences	473	423	419	437	387	371	325	322	346	345
Earth, atmospheric, and ocean sciences	407	386	393	364	330	314	260	266	284	260
Mathematics	588	503	452	470	413	409	370	308	365	356
Physical sciences	2,132	1,961	1,909	1,849	1,724	1,546	1,518	1,399	1,401	1,356
Astronomy	116	114	132	120	91	104	94	87	100	82
Chemistry	1,087	1,024	1,007	1,003	980	819	822	809	848	798
Physics	915	815	759	715	647	609	590	497	439	473
Other physical sciences	14	8	11	11	6	14	12	6	14	3
Psychology	1,127	1,048	1,014	1,058	1,063	1,052	983	916	894	895
Social sciences	1,557	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,371	1,426
Engineering	2,822	2,863	2,819	2,586	2,398	2,080	1,967	1,722	1,730	1,712
Chemical engineering	293	293	332	297	296	282	268	248	220	232
Civil engineering	257	258	269	239	251	213	203	190	200	159
Electrical engineering	851	823	834	712	685	555	493	441	433	430
Mechanical engineering	514	528	482	461	404	340	390	298	292	255
Other engineering	907	961	902	877	762	690	613	545	585	636
Non-science and engineering	5,791	5,521	5,490	5,470	5,398	5,310	5,209	4,915	5,002	4,859
Education	2,243	2,243	2,051	2,049	2,013	1,925	1,889	1,796	1,858	1,792
Health	324	293	287	310	329	341	340	340	354	346
Humanities	2,076	2,001	2,197	2,217	2,209	2,215	2,153	2,073	2,082	1,992
Professional/other/unknown	1,148	984	955	894	847	829	827	706	708	729
American Indian/Alaska Native, all fields	80	101	79	104	96	76	68	69	53	59
Science and engineering	42	60	45	54	59	43	41	37	34	34
Science	33	48	31	45	49	39	37	30	25	30
Agricultural sciences	2	3	5	7	1	4	0	2	3	2
Biological sciences	10	11	4	6	10	10	8	6	3	10
Computer sciences	0	2	0	4	0	1	1	2	2	2
Earth, atmospheric, and ocean sciences	0	1	1	2	3	3	0	0	1	4
Mathematics	1	1	1	1	1	1	1	2	1	0
Physical sciences	5	5	10	8	6	7	10	7	1	4
Astronomy	0	0	1	1	0	0	1	0	0	0
Chemistry	3	3	6	6	3	6	9	5	1	4
Physics	2	2	2	1	3	1	0	2	0	0
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Psychology	6	8	6	13	12	3	5	7	8	4
Social sciences	9	17	4	4	16	10	12	4	6	4
Engineering	9	12	14	9	10	4	4	7	9	4
Chemical engineering	2	1	3	0	1	0	1	2	0	1
Civil engineering	0	1	1	0	1	0	0	0	1	2
Electrical engineering	1	1	5	3	1	0	1	0	5	1
Mechanical engineering	2	3	5	2	2	2	1	1	0	0
Other engineering	4	6	0	4	5	2	1	4	3	0
Non-science and engineering	38	41	34	50	37	33	27	32	19	25
Education	17	22	18	26	19	17	12	16	9	14
Health	2	1	2	1	0	1	2	0	1	0
Humanities	10	10	8	14	11	11	9	12	7	8
Professional/other/unknown	9	8	6	9	7	4	4	4	2	3
Asian, all fields ^a	2,859	2,390	1,884	1,626	1,475	1,241	1,171	1,121	1,066	1,000
Science and engineering	2,548	2,105	1,639	1,369	1,217	1,027	936	939	871	816
Science	1,686	1,343	1,051	915	789	697	612	629	611	545
Agricultural sciences	66	58	53	30	31	24	11	14	9	8

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	511	482	373	365	332	276	280	271	275	230
Computer sciences	107	95	81	67	68	61	41	60	63	53
Earth, atmospheric, and ocean sciences	72	58	43	31	25	14	20	14	14	7
Mathematics	158	104	69	44	36	49	32	23	27	37
Physical sciences	539	356	267	228	159	132	124	132	111	109
Astronomy	18	8	7	10	3	9	6	12	5	5
Chemistry	269	187	141	133	103	67	62	72	62	68
Physics	251	160	119	84	53	56	56	48	44	36
Other physical sciences	1	1	0	1	0	0	0	0	0	0
Psychology	43	31	31	29	34	46	25	39	37	26
Social sciences	190	159	134	121	104	95	79	76	75	75
Engineering	862	762	588	454	428	330	324	310	260	271
Chemical engineering	76	62	61	46	44	48	34	49	36	40
Civil engineering	77	75	58	32	41	33	28	22	17	24
Electrical engineering	276	246	217	173	146	108	105	104	100	89
Mechanical engineering	165	149	97	77	77	56	67	55	41	41
Other engineering	268	230	155	126	120	85	90	80	66	77
Non-science and engineering	311	285	245	257	258	214	235	182	195	184
Education	59	69	52	69	63	53	43	39	41	36
Health	52	47	37	35	39	36	38	20	37	30
Humanities	83	83	72	79	82	63	77	68	66	75
Professional/other/unknown	117	86	84	74	74	62	77	55	51	43
Black/African American, all fields	612	638	636	610	700	642	676	673	653	714
Science and engineering	287	321	329	293	347	319	328	315	286	327
Science	232	266	254	234	273	262	261	258	228	266
Agricultural sciences	13	25	20	17	18	11	8	8	14	9
Biological sciences	64	58	52	41	50	44	55	57	44	59
Computer sciences	7	9	3	6	9	13	5	10	12	12
Earth, atmospheric, and ocean sciences	1	1	5	4	7	2	3	5	6	6
Mathematics	4	6	5	9	6	7	12	6	11	7
Physical sciences	24	46	40	25	37	41	35	39	36	34
Astronomy	1	0	1	1	0	0	1	0	1	0
Chemistry	16	35	26	17	33	25	23	22	28	26
Physics	7	11	13	7	4	15	11	17	7	8
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	39	38	41	43	37	45	50	42	43	50
Social sciences	80	83	88	89	109	99	93	91	62	89
Engineering	55	55	75	59	74	57	67	57	58	61
Chemical engineering	2	7	10	2	7	3	7	6	6	3
Civil engineering	8	7	10	7	4	5	11	9	7	4
Electrical engineering	20	17	27	19	25	19	21	12	17	24
Mechanical engineering	12	7	11	13	11	13	16	13	8	15
Other engineering	13	17	17	18	27	17	12	17	20	15
Non-science and engineering	325	317	307	317	353	323	348	358	367	387
Education	203	202	171	192	202	186	210	210	233	233
Health	18	13	15	14	12	14	12	16	17	26
Humanities	54	53	68	67	70	70	65	73	61	71
Professional/other/unknown	50	49	53	44	69	53	61	59	56	57
Hispanic, all fields ^b	542	567	624	682	579	609	569	601	664	597
Science and engineering	341	353	392	428	360	379	336	345	376	354
Science	275	269	319	331	300	310	268	273	296	287
Agricultural sciences	16	9	20	22	9	18	12	13	14	5
Biological sciences	80	65	83	89	99	82	88	68	96	84
Computer sciences	2	9	14	14	11	11	4	12	6	10
Earth, atmospheric, and ocean sciences	7	13	10	10	16	12	4	12	9	6
Mathematics	11	11	14	20	10	8	10	8	9	19

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	52	55	54	43	41	53	43	42	49	38
Astronomy	2	1	2	2	1	2	6	3	2	4
Chemistry	29	29	32	25	25	30	26	20	27	22
Physics	21	25	20	16	15	20	11	19	20	12
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	49	53	64	56	57	59	46	56	54	55
Social sciences	58	54	60	77	57	67	61	62	59	70
Engineering	66	84	73	97	60	69	68	72	80	67
Chemical engineering	11	13	4	13	3	14	2	9	12	8
Civil engineering	10	6	11	13	6	8	7	8	8	16
Electrical engineering	14	23	20	29	26	21	19	27	19	13
Mechanical engineering	8	13	11	18	8	11	21	7	12	8
Other engineering	23	29	27	24	17	15	19	21	29	22
Non-science and engineering	201	214	232	254	219	230	233	256	288	243
Education	91	87	93	111	91	99	91	104	119	97
Health	15	16	8	12	15	10	9	9	11	10
Humanities	72	85	107	103	90	98	98	117	132	104
Professional/other/unknown	23	26	24	28	23	23	35	26	26	32
Mexican American, all fields	160	166	161	220	163	209	198	180	213	220
Science and engineering	90	95	91	136	91	127	103	84	110	114
Science	72	70	80	109	82	104	90	73	96	95
Agricultural sciences	3	1	2	7	3	5	3	3	6	2
Biological sciences	17	16	22	32	25	27	30	22	32	30
Computer sciences	1	1	2	3	1	3	2	3	1	3
Earth, atmospheric, and ocean sciences	3	3	2	4	4	3	1	4	0	2
Mathematics	4	2	2	3	5	4	3	1	2	7
Physical sciences	9	20	13	18	11	20	14	10	16	11
Astronomy	0	1	0	1	0	1	3	0	1	1
Chemistry	6	13	7	12	5	14	5	4	10	6
Physics	3	6	6	5	6	5	6	6	5	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	15	18	20	18	16	22	20	15	17	13
Social sciences	20	9	17	24	17	20	17	15	22	27
Engineering	18	25	11	27	9	23	13	11	14	19
Chemical engineering	2	3	2	1	0	3	0	1	3	3
Civil engineering	7	2	1	4	1	4	0	1	1	4
Electrical engineering	3	8	2	7	3	4	6	4	2	4
Mechanical engineering	2	4	2	3	1	6	4	1	2	0
Other engineering	4	8	4	12	4	6	3	4	6	8
Non-science and engineering	70	71	70	84	72	82	95	96	103	106
Education	42	38	42	45	35	46	50	51	58	55
Health	3	2	0	1	5	2	2	4	2	3
Humanities	21	21	22	33	27	27	30	35	36	39
Professional/other/unknown	4	10	6	5	5	7	13	6	7	9
Puerto Rican, all fields	120	114	153	128	141	130	122	149	126	107
Science and engineering	74	74	98	69	88	78	68	92	75	65
Science	63	57	79	53	73	62	59	77	58	48
Agricultural sciences	3	3	3	2	0	3	2	6	0	0
Biological sciences	21	14	20	20	24	11	18	18	21	21
Computer sciences	0	4	6	1	5	5	1	4	2	2
Earth, atmospheric, and ocean sciences	1	3	4	2	4	5	1	3	4	2
Mathematics	0	3	3	4	2	1	2	3	1	1
Physical sciences	12	8	18	6	13	10	10	16	11	7
Astronomy	0	0	0	1	0	0	0	1	0	0
Chemistry	9	6	11	4	9	9	8	7	9	6

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	3	2	7	1	4	1	2	8	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	13	15	20	12	16	14	9	14	10	4
Social sciences	13	7	5	6	9	13	16	13	9	11
Engineering	11	17	19	16	15	16	9	15	17	17
Chemical engineering	3	2	1	3	1	3	0	3	4	0
Civil engineering	1	1	5	1	1	2	2	1	3	7
Electrical engineering	3	4	3	3	9	6	2	6	4	3
Mechanical engineering	1	3	6	5	2	2	1	1	1	3
Other engineering	3	7	4	4	2	3	4	4	5	4
Non-science and engineering	46	40	55	59	53	52	54	57	51	42
Education	19	17	21	28	24	24	26	26	17	17
Health	7	2	3	3	5	3	2	2	0	2
Humanities	14	16	26	20	14	19	18	26	29	17
Professional/other/unknown	6	5	5	8	10	6	8	3	5	6
Other Hispanic, all fields	262	287	310	334	275	270	249	272	325	270
Science and engineering	177	184	203	223	181	174	165	169	191	175
Science	140	142	160	169	145	144	119	123	142	144
Agricultural sciences	10	5	15	13	6	10	7	4	8	3
Biological sciences	42	35	41	37	50	44	40	28	43	33
Computer sciences	1	4	6	10	5	3	1	5	3	5
Earth, atmospheric, and ocean sciences	3	7	4	4	8	4	2	5	5	2
Mathematics	7	6	9	13	3	3	5	4	6	11
Physical sciences	31	27	23	19	17	23	19	16	22	20
Astronomy	2	0	2	0	1	1	3	2	1	3
Chemistry	14	10	14	9	11	7	13	9	8	10
Physics	15	17	7	10	5	14	3	5	13	7
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	21	20	24	26	25	23	17	27	27	38
Social sciences	25	38	38	47	31	34	28	34	28	32
Engineering	37	42	43	54	36	30	46	46	49	31
Chemical engineering	6	8	1	9	2	8	2	5	5	5
Civil engineering	2	3	5	8	4	2	5	6	4	5
Electrical engineering	8	11	15	19	14	11	11	17	13	6
Mechanical engineering	5	6	3	10	5	3	16	5	9	5
Other engineering	16	14	19	8	11	6	12	13	18	10
Non-science and engineering	85	103	107	111	94	96	84	103	134	95
Education	30	32	30	38	32	29	15	27	44	25
Health	5	12	5	8	5	5	5	3	9	5
Humanities	37	48	59	50	49	52	50	56	67	48
Professional/other/unknown	13	11	13	15	8	10	14	17	14	17
White, all fields	13,516	13,224	12,996	12,884	12,678	12,308	11,686	10,793	10,820	10,764
Science and engineering	8,673	8,647	8,560	8,510	8,262	7,932	7,476	6,873	6,894	6,919
Science	6,902	6,732	6,604	6,647	6,503	6,377	6,042	5,672	5,635	5,694
Agricultural sciences	405	340	331	300	309	294	273	265	308	295
Biological sciences	1,770	1,771	1,759	1,810	1,726	1,798	1,768	1,726	1,609	1,720
Computer sciences	347	295	295	328	285	274	262	231	243	250
Earth, atmospheric, and ocean sciences	320	307	320	301	271	274	219	230	242	224
Mathematics	409	373	344	376	347	338	308	258	298	273
Physical sciences	1,476	1,456	1,472	1,467	1,444	1,272	1,254	1,129	1,128	1,089
Astronomy	92	101	110	96	86	89	76	69	80	67
Chemistry	760	754	773	785	797	665	677	665	687	635
Physics	613	594	579	577	555	506	489	389	347	384
Other physical sciences	11	7	10	9	6	12	12	6	14	3
Psychology	980	909	833	882	912	882	826	748	714	730
Social sciences	1,195	1,281	1,250	1,183	1,209	1,245	1,132	1,085	1,093	1,113

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	1,771	1,915	1,956	1,863	1,759	1,555	1,434	1,201	1,259	1,225
Chemical engineering	196	205	241	223	236	213	213	171	160	168
Civil engineering	160	168	180	172	194	160	143	144	159	110
Electrical engineering	523	523	525	470	466	388	334	276	272	276
Mechanical engineering	314	353	344	334	291	246	275	206	219	179
Other engineering	578	666	666	664	572	548	469	404	449	492
Non-science and engineering	4,843	4,577	4,436	4,374	4,416	4,376	4,210	3,920	3,926	3,845
Education	1,855	1,830	1,622	1,584	1,602	1,536	1,493	1,364	1,384	1,366
Health	232	212	219	234	257	271	271	286	271	265
Humanities	1,817	1,735	1,846	1,854	1,904	1,898	1,820	1,724	1,725	1,660
Professional/other/unknown	939	800	749	702	653	671	626	546	546	554
Other/unknown, all fields ^c	263	283	662	631	365	414	472	468	636	600
Science and engineering	190	196	426	413	250	280	316	301	429	425
Science	131	161	313	309	183	215	246	226	365	341
Agricultural sciences	4	8	14	11	8	13	6	7	13	18
Biological sciences	34	36	62	74	43	71	73	66	111	85
Computer sciences	10	13	26	18	14	11	12	7	20	18
Earth, atmospheric, and ocean sciences	7	6	14	16	8	9	14	5	12	13
Mathematics	5	8	19	20	13	6	7	11	19	20
Physical sciences	36	43	66	78	37	41	52	50	76	82
Astronomy	3	4	11	10	1	4	4	3	12	6
Chemistry	10	16	29	37	19	26	25	25	43	43
Physics	21	23	26	30	17	11	23	22	21	33
Other physical sciences	2	0	0	1	0	0	0	0	0	0
Psychology	10	9	39	35	11	17	31	24	38	30
Social sciences	25	38	73	57	49	47	51	56	76	75
Engineering	59	35	113	104	67	65	70	75	64	84
Chemical engineering	6	5	13	13	5	4	11	11	6	12
Civil engineering	2	1	9	15	5	7	14	7	8	3
Electrical engineering	17	13	40	18	21	19	13	22	20	27
Mechanical engineering	13	3	14	17	15	12	10	16	12	12
Other engineering	21	13	37	41	21	23	22	19	18	30
Non-science and engineering	73	87	236	218	115	134	156	167	207	175
Education	18	33	95	67	36	34	40	63	72	46
Health	5	4	6	14	6	9	8	9	17	15
Humanities	40	35	96	100	52	75	84	79	91	74
Professional/other/unknown	10	15	39	37	21	16	24	16	27	40

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	14,185	14,337	14,168	14,592	14,401	14,634	14,236	13,935	14,223	14,221
Science and engineering	6,914	6,965	6,988	7,172	7,072	7,132	6,913	6,701	6,823	6,842
Science	6,394	6,439	6,476	6,720	6,581	6,641	6,434	6,259	6,383	6,372
Agricultural sciences	160	185	175	204	185	195	194	181	200	226
Biological sciences	1,859	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,916	1,997
Computer sciences	143	91	100	123	106	86	98	97	97	102
Earth, atmospheric, and ocean sciences	119	119	144	150	129	139	135	158	145	166
Mathematics	183	145	177	198	192	164	154	134	152	154
Physical sciences	708	610	587	604	553	546	527	541	569	510
Astronomy	25	35	26	27	26	35	29	22	31	33
Chemistry	537	439	431	463	426	422	408	421	417	382
Physics	143	134	124	107	95	83	87	92	113	86
Other physical sciences	3	2	6	7	6	6	3	6	8	9
Psychology	2,057	2,185	2,106	2,212	2,229	2,178	2,050	1,879	1,963	1,893
Social sciences	1,165	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,341	1,324
Engineering	520	526	512	452	491	491	479	442	440	470
Chemical engineering	88	98	77	76	75	100	93	88	72	80
Civil engineering	52	47	58	58	61	48	66	57	69	65
Electrical engineering	120	106	106	91	81	93	67	66	65	68
Mechanical engineering	49	60	55	50	60	56	38	44	40	44
Other engineering	211	215	216	177	214	194	215	187	194	213
Non-science and engineering	7,271	7,372	7,180	7,420	7,329	7,502	7,323	7,234	7,400	7,379
Education	3,752	3,832	3,687	3,690	3,801	3,755	3,561	3,602	3,783	3,625
Health	719	723	740	844	720	854	818	854	875	925
Humanities	1,980	2,046	2,033	2,106	2,083	2,175	2,226	2,042	2,052	2,059
Professional/other/unknown	820	771	720	780	725	718	718	736	690	770
American Indian/Alaska Native, all fields	68	85	88	85	118	93	82	81	84	72
Science and engineering	26	35	34	42	55	45	32	33	39	27
Science	26	33	31	38	53	41	30	33	36	25
Agricultural sciences	0	4	0	2	0	1	0	0	1	2
Biological sciences	5	9	3	6	10	7	7	6	8	4
Computer sciences	0	2	1	0	1	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	1	1	3	1	0	0	1	0
Mathematics	1	0	0	2	0	1	1	1	1	0
Physical sciences	3	1	0	1	3	2	2	0	1	1
Astronomy	0	0	0	0	1	1	0	0	0	0
Chemistry	3	1	0	1	2	1	2	0	1	0
Physics	0	0	0	0	0	0	0	0	0	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	8	9	12	18	23	19	12	8	14	9
Social sciences	9	8	14	8	13	10	8	18	10	9
Engineering	0	2	3	4	2	4	2	0	3	2
Chemical engineering	0	0	1	3	1	1	0	0	1	1
Civil engineering	0	1	1	0	1	1	0	0	0	1
Electrical engineering	0	1	0	0	0	0	0	0	0	0
Mechanical engineering	0	0	1	0	0	1	0	0	1	0
Other engineering	0	0	0	1	0	1	2	0	1	0
Non-science and engineering	42	50	54	43	63	48	50	48	45	45
Education	24	38	33	24	39	34	30	30	31	32
Health	7	3	4	3	6	3	4	3	1	3
Humanities	8	8	11	7	10	9	12	8	8	5
Professional/other/unknown	3	1	6	9	8	2	4	7	5	5
Asian, all fields ^a	1,437	1,284	1,224	1,073	1,020	1,031	1,002	988	958	1,054
Science and engineering	1,111	974	889	760	715	679	681	677	639	675
Science	941	840	770	663	631	570	583	579	559	592
Agricultural sciences	18	29	20	24	19	12	12	15	16	23

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	409	403	348	291	276	263	266	290	250	258
Computer sciences	30	16	26	23	19	15	20	26	17	19
Earth, atmospheric, and ocean sciences	26	12	17	13	10	8	7	10	7	4
Mathematics	49	36	28	27	20	21	16	5	24	17
Physical sciences	210	145	132	101	93	71	73	62	72	53
Astronomy	4	4	1	3	0	4	0	1	3	3
Chemistry	146	108	92	72	80	54	61	50	50	42
Physics	60	33	38	26	13	12	12	11	18	8
Other physical sciences	0	0	1	0	0	1	0	0	1	0
Psychology	78	90	95	84	98	99	91	80	81	127
Social sciences	121	109	104	100	96	81	98	91	92	91
Engineering	170	134	119	97	84	109	98	98	80	83
Chemical engineering	25	18	12	19	14	21	19	21	10	18
Civil engineering	14	14	14	6	5	10	9	7	3	11
Electrical engineering	46	30	39	31	26	33	28	26	30	20
Mechanical engineering	23	17	16	10	11	16	8	15	9	6
Other engineering	62	55	38	31	28	29	34	29	28	28
Non-science and engineering	326	310	335	313	305	352	321	311	319	379
Education	120	111	128	106	103	120	103	99	109	119
Health	41	40	50	48	48	63	69	71	49	64
Humanities	109	104	107	113	111	113	104	100	115	129
Professional/other/unknown	56	55	50	46	43	56	45	41	46	67
Black/African American, all fields	849	808	838	993	1,063	1,106	1,056	1,077	1,144	1,257
Science and engineering	263	251	286	351	368	391	375	370	378	419
Science	248	232	263	329	344	367	350	342	359	386
Agricultural sciences	6	1	6	5	9	11	6	5	8	11
Biological sciences	43	40	60	70	66	74	84	67	64	89
Computer sciences	4	3	1	8	10	5	10	7	5	5
Earth, atmospheric, and ocean sciences	0	1	1	1	4	1	2	0	5	1
Mathematics	1	2	2	7	6	7	7	8	5	3
Physical sciences	18	13	11	31	29	21	20	28	21	25
Astronomy	0	0	1	0	2	1	0	1	0	0
Chemistry	17	10	9	28	23	19	19	22	14	20
Physics	1	3	1	3	4	1	1	5	5	5
Other physical sciences	0	0	0	0	0	0	0	0	2	0
Psychology	110	114	111	115	135	144	124	129	126	154
Social sciences	66	58	71	92	85	104	97	98	125	98
Engineering	15	19	23	22	24	24	25	28	19	33
Chemical engineering	1	5	6	1	4	5	10	6	3	7
Civil engineering	3	1	0	2	2	1	0	4	2	3
Electrical engineering	4	5	4	4	5	2	1	4	4	9
Mechanical engineering	1	3	1	0	1	5	1	4	1	3
Other engineering	6	5	12	15	12	11	13	10	9	11
Non-science and engineering	586	557	552	642	695	715	681	707	766	838
Education	420	405	382	462	487	507	460	482	523	554
Health	42	35	40	51	45	61	52	56	62	81
Humanities	61	63	73	72	94	88	103	87	93	98
Professional/other/unknown	63	54	57	57	69	59	66	82	88	105
Hispanic, all fields ^b	522	546	574	644	745	698	703	768	762	700
Science and engineering	232	273	266	326	362	349	338	379	365	361
Science	221	258	243	313	339	336	315	354	342	340
Agricultural sciences	8	4	7	13	7	11	14	8	11	11
Biological sciences	47	66	63	79	76	91	77	114	80	107
Computer sciences	4	7	2	1	3	3	4	2	4	3
Earth, atmospheric, and ocean sciences	3	6	5	6	4	3	5	2	6	5
Mathematics	4	0	6	7	5	7	5	4	7	7

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	21	12	15	11	22	25	22	22	23	24
Astronomy	2	1	1	0	0	1	1	1	1	2
Chemistry	14	7	12	9	21	21	17	18	18	21
Physics	5	4	2	2	1	3	4	3	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	97	120	107	152	158	151	129	129	116	115
Social sciences	37	43	38	44	64	45	59	73	95	68
Engineering	11	15	23	13	23	13	23	25	23	21
Chemical engineering	2	6	3	0	4	4	5	7	4	4
Civil engineering	1	0	1	3	6	1	2	0	5	4
Electrical engineering	1	4	6	2	4	1	3	4	4	2
Mechanical engineering	0	0	3	1	1	1	0	5	1	2
Other engineering	7	5	10	7	8	6	13	9	9	9
Non-science and engineering	290	273	308	318	383	349	365	389	397	339
Education	167	131	164	178	212	185	184	216	219	174
Health	15	22	24	25	31	24	21	24	33	37
Humanities	82	93	101	95	107	110	132	124	115	103
Professional/other/unknown	26	27	19	20	33	30	28	25	30	25
Mexican American, all fields	131	127	145	204	187	206	205	234	268	235
Science and engineering	61	54	70	87	73	87	84	104	113	117
Science	60	51	63	84	69	84	79	98	108	112
Agricultural sciences	2	1	0	3	0	2	2	4	2	4
Biological sciences	11	12	22	22	16	19	17	31	22	28
Computer sciences	2	0	0	0	0	1	0	0	2	0
Earth, atmospheric, and ocean sciences	0	2	1	1	1	1	3	0	0	1
Mathematics	2	0	1	3	2	4	3	1	3	1
Physical sciences	4	3	2	3	5	3	2	6	10	10
Astronomy	1	0	0	0	0	0	0	1	0	1
Chemistry	2	2	2	3	4	3	2	3	9	8
Physics	1	1	0	0	1	0	0	2	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	33	20	29	35	27	39	36	36	35	39
Social sciences	6	13	8	17	18	15	16	20	34	29
Engineering	1	3	7	3	4	3	5	6	5	5
Chemical engineering	1	1	1	0	0	1	0	2	1	0
Civil engineering	0	0	1	1	2	0	1	0	0	1
Electrical engineering	0	1	3	0	1	0	2	0	1	1
Mechanical engineering	0	0	0	0	0	0	0	2	0	0
Other engineering	0	1	2	2	1	2	2	2	3	3
Non-science and engineering	70	73	75	117	114	119	121	130	155	118
Education	51	41	48	71	68	69	66	89	101	74
Health	5	4	7	14	11	9	5	5	11	6
Humanities	13	20	16	26	22	35	40	30	30	31
Professional/other/unknown	1	8	4	6	13	6	10	6	13	7
Puerto Rican, all fields	149	138	160	180	194	198	181	196	135	151
Science and engineering	63	68	73	104	96	106	87	104	73	74
Science	61	63	69	103	88	102	83	93	71	72
Agricultural sciences	1	1	1	1	1	3	4	3	3	4
Biological sciences	9	18	16	23	23	22	30	38	14	29
Computer sciences	0	1	0	1	1	0	0	0	0	2
Earth, atmospheric, and ocean sciences	0	0	2	3	1	0	0	0	0	3
Mathematics	1	0	1	3	0	1	0	0	2	1
Physical sciences	9	4	2	5	9	10	4	4	6	9
Astronomy	1	0	0	0	0	0	0	0	1	0
Chemistry	8	3	2	5	9	10	3	4	5	9

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	0	1	0	0	0	0	1	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	31	33	36	59	41	59	36	36	37	15
Social sciences	10	6	11	8	12	7	9	12	9	9
Engineering	2	5	4	1	8	4	4	11	2	2
Chemical engineering	1	2	0	0	1	2	2	5	0	1
Civil engineering	0	0	0	0	1	0	0	0	1	0
Electrical engineering	0	0	1	0	2	0	0	1	0	1
Mechanical engineering	0	0	0	0	0	0	0	2	1	0
Other engineering	1	3	3	1	4	2	2	3	0	0
Non-science and engineering	86	70	87	76	98	92	94	92	62	77
Education	50	35	51	49	66	51	62	53	35	39
Health	5	5	7	4	6	6	3	7	4	14
Humanities	16	22	23	17	17	25	23	25	13	18
Professional/other/unknown	15	8	6	6	9	10	6	7	10	6
Other Hispanic, all fields	242	281	269	260	364	294	317	338	359	314
Science and engineering	108	151	123	135	193	156	167	171	179	170
Science	100	144	111	126	182	150	153	163	163	156
Agricultural sciences	5	2	6	9	6	6	8	1	6	3
Biological sciences	27	36	25	34	37	50	30	45	44	50
Computer sciences	2	6	2	0	2	2	4	2	2	1
Earth, atmospheric, and ocean sciences	3	4	2	2	2	2	2	2	6	1
Mathematics	1	0	4	1	3	2	2	3	2	5
Physical sciences	8	5	11	3	8	12	16	12	7	5
Astronomy	0	1	1	0	0	1	1	0	0	1
Chemistry	4	2	8	1	8	8	12	11	4	4
Physics	4	2	2	2	0	3	3	1	3	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	33	67	42	58	90	53	57	57	44	61
Social sciences	21	24	19	19	34	23	34	41	52	30
Engineering	8	7	12	9	11	6	14	8	16	14
Chemical engineering	0	3	2	0	3	1	3	0	3	3
Civil engineering	1	0	0	2	3	1	1	0	4	3
Electrical engineering	1	3	2	2	1	1	1	3	3	0
Mechanical engineering	0	0	3	1	1	1	0	1	0	2
Other engineering	6	1	5	4	3	2	9	4	6	6
Non-science and engineering	134	130	146	125	171	138	150	167	180	144
Education	66	55	65	58	78	65	56	74	83	61
Health	5	13	10	7	14	9	13	12	18	17
Humanities	53	51	62	52	68	50	69	69	72	54
Professional/other/unknown	10	11	9	8	11	14	12	12	7	12
White, all fields	11,170	11,446	10,963	11,389	11,216	11,402	11,002	10,602	10,722	10,631
Science and engineering	5,214	5,349	5,266	5,494	5,457	5,511	5,284	5,039	5,130	5,099
Science	4,893	5,001	4,934	5,187	5,106	5,177	4,966	4,763	4,829	4,782
Agricultural sciences	123	145	134	154	147	158	157	150	157	170
Biological sciences	1,345	1,399	1,398	1,436	1,402	1,510	1,487	1,392	1,450	1,464
Computer sciences	103	61	66	84	71	62	60	59	64	71
Earth, atmospheric, and ocean sciences	89	99	113	126	105	119	119	135	119	143
Mathematics	126	105	135	150	159	126	120	111	110	125
Physical sciences	447	430	412	449	396	419	395	419	426	390
Astronomy	19	30	22	24	23	26	27	18	25	26
Chemistry	351	308	305	344	293	323	297	323	315	286
Physics	74	90	80	74	75	65	68	72	82	69
Other physical sciences	3	2	5	7	5	5	3	6	4	9
Psychology	1,742	1,835	1,690	1,764	1,789	1,725	1,628	1,481	1,549	1,411
Social sciences	918	927	986	1,024	1,037	1,058	1,000	1,016	954	1,008

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	321	348	332	307	351	334	318	276	301	317
Chemical engineering	60	69	52	52	50	67	59	52	50	48
Civil engineering	34	31	40	45	47	34	51	41	58	45
Electrical engineering	67	66	54	53	44	55	34	30	24	36
Mechanical engineering	25	39	33	37	45	33	27	20	27	31
Other engineering	135	143	153	120	165	145	147	133	142	157
Non-science and engineering	5,956	6,097	5,697	5,895	5,759	5,891	5,718	5,563	5,592	5,532
Education	2,993	3,110	2,836	2,822	2,903	2,838	2,707	2,675	2,774	2,640
Health	600	610	609	695	580	690	651	683	699	709
Humanities	1,697	1,748	1,677	1,749	1,712	1,805	1,804	1,650	1,623	1,639
Professional/other/unknown	666	629	575	629	564	558	556	555	496	544
Other/unknown, all fields ^c	139	168	481	408	239	304	391	419	553	507
Science and engineering	68	83	247	199	115	157	203	203	272	261
Science	65	75	235	190	108	150	190	188	258	247
Agricultural sciences	5	2	8	6	3	2	5	3	7	9
Biological sciences	10	24	48	39	34	42	50	49	64	75
Computer sciences	2	2	4	7	2	1	4	3	7	4
Earth, atmospheric, and ocean sciences	1	1	7	3	3	7	2	11	7	13
Mathematics	2	2	6	5	2	2	5	5	5	2
Physical sciences	9	9	17	11	10	8	15	10	26	17
Astronomy	0	0	1	0	0	2	1	1	2	2
Chemistry	6	5	13	9	7	4	12	8	19	13
Physics	3	4	3	2	2	2	2	1	4	2
Other physical sciences	0	0	0	0	1	0	0	0	1	0
Psychology	22	17	91	79	26	40	66	52	77	77
Social sciences	14	18	54	40	28	48	43	55	65	50
Engineering	3	8	12	9	7	7	13	15	14	14
Chemical engineering	0	0	3	1	2	2	0	2	4	2
Civil engineering	0	0	2	2	0	1	4	5	1	1
Electrical engineering	2	0	3	1	2	2	1	2	3	1
Mechanical engineering	0	1	1	2	2	0	2	0	1	2
Other engineering	1	7	3	3	1	2	6	6	5	8
Non-science and engineering	71	85	234	209	124	147	188	216	281	246
Education	28	37	144	98	57	71	77	100	127	106
Health	14	13	13	22	10	13	21	17	31	31
Humanities	23	30	64	70	49	50	71	73	98	85
Professional/other/unknown	6	5	13	19	8	13	19	26	25	24

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	27,743	27,775	28,151	28,457	27,986	27,979	27,040	26,011	26,485	26,431
Science and engineering	15,488	15,638	16,112	16,238	15,914	15,705	15,068	14,345	14,615	14,722
Science	13,102	13,042	13,373	13,673	13,428	13,484	12,921	12,453	12,711	12,781
Agricultural sciences	554	517	531	505	506	498	467	459	520	527
Biological sciences	3,494	3,546	3,670	3,756	3,660	3,904	3,899	3,797	3,791	3,955
Computer sciences	484	422	430	476	421	388	367	355	387	398
Earth, atmospheric, and ocean sciences	416	417	473	459	412	424	367	389	398	405
Mathematics	554	490	530	576	539	518	469	411	471	455
Physical sciences	2,137	2,078	2,131	2,141	2,035	1,890	1,861	1,779	1,818	1,748
Astronomy	120	137	151	132	111	127	119	104	126	113
Chemistry	1,238	1,170	1,234	1,288	1,256	1,119	1,127	1,137	1,171	1,110
Physics	764	762	731	705	657	625	602	527	500	515
Other physical sciences	15	9	15	16	11	19	13	11	21	10
Psychology	3,083	3,129	3,036	3,182	3,222	3,156	2,958	2,724	2,787	2,725
Social sciences	2,380	2,443	2,572	2,578	2,633	2,706	2,533	2,539	2,539	2,568
Engineering	2,386	2,596	2,739	2,565	2,486	2,221	2,147	1,892	1,904	1,941
Chemical engineering	291	318	321	328	333	339	332	302	272	290
Civil engineering	206	212	249	246	261	221	222	210	239	190
Electrical engineering	683	708	753	638	639	532	465	424	406	419
Mechanical engineering	383	436	456	433	399	341	386	285	287	271
Other engineering	823	922	960	920	854	788	742	671	700	771
Non-science and engineering	12,255	12,137	12,039	12,219	12,072	12,274	11,972	11,666	11,870	11,709
Education	5,777	5,879	5,582	5,573	5,636	5,555	5,334	5,286	5,513	5,305
Health	938	933	959	1,072	972	1,120	1,089	1,126	1,170	1,198
Humanities	3,748	3,728	3,946	4,023	4,008	4,159	4,113	3,914	3,896	3,808
Professional/other/unknown	1,792	1,597	1,552	1,551	1,456	1,440	1,436	1,340	1,291	1,398
American Indian/Alaska Native, all fields	148	185	167	189	214	169	148	147	134	129
Science and engineering	68	94	79	96	114	88	71	67	72	60
Science	59	80	62	83	102	80	65	60	61	55
Agricultural sciences	2	7	5	9	1	5	0	2	4	4
Biological sciences	15	20	7	12	20	17	15	12	11	14
Computer sciences	0	4	1	4	1	1	0	1	2	2
Earth, atmospheric, and ocean sciences	0	1	2	3	6	4	0	0	2	4
Mathematics	2	1	1	3	1	2	1	3	2	0
Physical sciences	8	6	10	9	9	9	12	7	2	5
Astronomy	0	0	1	1	1	1	1	0	0	0
Chemistry	6	4	6	7	5	7	11	5	2	4
Physics	2	2	2	1	3	1	0	2	0	1
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Psychology	14	17	18	31	35	22	17	15	22	13
Social sciences	18	24	18	12	29	20	20	20	16	13
Engineering	9	14	17	13	12	8	6	7	11	5
Chemical engineering	2	1	4	3	2	1	1	2	1	2
Civil engineering	0	2	2	0	2	1	0	0	1	3
Electrical engineering	1	2	5	3	1	0	1	0	5	0
Mechanical engineering	2	3	6	2	2	3	1	1	0	0
Other engineering	4	6	0	5	5	3	3	4	4	0
Non-science and engineering	80	91	88	93	100	81	77	80	62	69
Education	41	60	51	50	58	51	42	46	39	46
Health	9	4	6	4	6	4	6	3	2	3
Humanities	18	18	19	21	21	20	21	20	15	12
Professional/other/unknown	12	9	12	18	15	6	8	11	6	8
Asian, all fields ^a	1,129	1,066	1,296	1,155	1,304	1,363	1,396	1,364	1,354	1,449
Science and engineering	884	821	1,000	869	988	991	1,035	1,036	991	1,066
Science	630	550	710	626	725	751	777	789	787	837
Agricultural sciences	11	13	22	8	22	15	9	13	8	13

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	225	233	255	249	288	318	357	373	375	379
Computer sciences	42	37	42	39	43	41	34	50	44	42
Earth, atmospheric, and ocean sciences	7	7	10	5	14	7	12	5	7	6
Mathematics	24	23	33	25	29	44	30	19	38	29
Physical sciences	146	105	151	117	123	102	120	120	109	125
Astronomy	4	5	6	6	2	8	6	10	8	7
Chemistry	90	55	82	71	88	49	70	73	63	84
Physics	52	45	63	40	33	44	44	37	37	34
Other physical sciences	0	0	0	0	0	1	0	0	1	0
Psychology	83	75	101	92	110	121	103	104	103	135
Social sciences	92	57	96	91	96	103	112	105	103	108
Engineering	254	271	290	243	263	240	258	247	204	229
Chemical engineering	27	27	17	36	32	43	37	48	36	46
Civil engineering	15	17	13	16	20	18	15	14	10	13
Electrical engineering	92	109	128	86	92	79	78	80	76	63
Mechanical engineering	37	40	50	35	42	39	48	31	25	37
Other engineering	83	78	82	70	77	61	80	74	57	70
Non-science and engineering	245	245	296	286	316	372	361	328	363	383
Education	84	87	100	99	100	124	103	98	108	113
Health	22	37	42	32	45	55	72	55	70	63
Humanities	84	78	104	101	112	124	120	131	128	140
Professional/other/unknown	55	43	50	54	59	69	66	44	57	67
Black/African American, all fields	1,293	1,305	1,335	1,485	1,630	1,629	1,614	1,663	1,711	1,869
Science and engineering	461	487	530	574	638	646	631	634	615	685
Science	408	428	447	501	553	572	549	558	544	601
Agricultural sciences	11	16	15	10	19	12	9	9	18	18
Biological sciences	90	82	101	101	109	110	124	114	100	136
Computer sciences	9	12	4	12	17	13	13	17	17	15
Earth, atmospheric, and ocean sciences	0	1	3	5	8	3	5	4	9	6
Mathematics	4	8	6	12	10	14	17	13	14	8
Physical sciences	36	45	45	51	54	52	46	62	50	48
Astronomy	1	0	2	1	2	1	1	1	1	0
Chemistry	27	34	31	40	46	36	36	41	35	39
Physics	8	11	12	10	6	15	9	20	12	9
Other physical sciences	0	0	0	0	0	0	0	0	2	0
Psychology	143	144	142	152	168	184	169	163	163	202
Social sciences	115	120	131	158	168	184	166	176	173	168
Engineering	53	59	83	73	85	74	82	76	71	84
Chemical engineering	2	10	12	3	9	8	16	10	8	9
Civil engineering	7	6	9	7	5	5	7	10	6	5
Electrical engineering	20	17	27	22	26	19	20	15	21	31
Mechanical engineering	7	9	10	12	10	17	17	16	9	15
Other engineering	17	17	25	29	35	25	22	25	27	24
Non-science and engineering	832	818	805	911	992	983	983	1,029	1,096	1,184
Education	579	580	527	628	661	674	649	676	743	772
Health	55	42	51	60	51	67	60	67	75	101
Humanities	97	105	125	131	150	145	158	153	142	157
Professional/other/unknown	101	91	102	92	130	97	116	133	136	154
Hispanic, all fields ^b	922	957	1,063	1,205	1,184	1,180	1,128	1,238	1,276	1,177
Science and engineering	488	534	574	683	646	650	585	653	656	642
Science	427	447	492	583	575	581	511	566	566	569
Agricultural sciences	12	9	15	25	11	20	21	20	19	15
Biological sciences	104	109	131	150	155	154	149	161	158	174
Computer sciences	6	12	15	13	12	11	6	13	8	12
Earth, atmospheric, and ocean sciences	5	13	15	15	18	15	5	11	10	10
Mathematics	12	9	17	25	12	13	14	11	14	21

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	61	51	58	49	56	72	61	56	61	56
Astronomy	3	1	3	2	1	1	7	3	3	6
Chemistry	38	32	36	34	41	49	39	35	38	38
Physics	20	18	19	13	14	21	15	18	20	12
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	138	167	161	197	205	203	160	180	162	162
Social sciences	89	77	80	109	106	93	95	114	134	119
Engineering	61	87	82	100	71	69	74	87	90	73
Chemical engineering	12	15	6	10	5	13	5	16	14	9
Civil engineering	7	2	10	15	11	8	8	7	11	16
Electrical engineering	14	27	23	27	28	19	15	28	21	12
Mechanical engineering	5	11	13	19	8	10	17	10	12	9
Other engineering	23	32	30	29	19	19	29	26	32	27
Non-science and engineering	434	423	489	522	538	530	543	585	620	535
Education	235	205	247	285	289	274	267	306	328	261
Health	29	31	29	37	39	33	24	30	38	44
Humanities	123	138	173	156	160	176	194	205	204	180
Professional/other/unknown	47	49	40	44	50	47	58	44	50	50
Mexican American, all fields	276	282	297	409	339	400	379	401	457	429
Science and engineering	139	142	154	213	155	206	169	185	208	216
Science	125	116	136	185	144	180	152	169	193	194
Agricultural sciences	4	2	2	9	3	6	4	7	7	6
Biological sciences	25	28	40	49	39	44	47	52	52	54
Computer sciences	3	1	2	3	0	3	2	3	3	3
Earth, atmospheric, and ocean sciences	2	5	3	5	5	4	2	4	0	3
Mathematics	5	2	3	6	7	8	6	2	4	7
Physical sciences	13	20	14	21	15	22	15	16	25	20
Astronomy	1	1	0	1	0	0	3	1	1	2
Chemistry	8	14	9	15	9	17	6	7	19	13
Physics	4	5	5	5	6	5	6	8	5	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	47	38	49	51	40	60	48	51	51	50
Social sciences	26	20	23	41	35	33	28	34	51	51
Engineering	14	26	18	28	11	26	17	16	15	22
Chemical engineering	3	4	3	1	0	4	0	3	3	2
Civil engineering	3	0	2	5	3	4	1	1	0	5
Electrical engineering	3	9	5	6	3	4	8	4	3	4
Mechanical engineering	1	4	2	3	1	6	4	3	2	0
Other engineering	4	9	6	13	4	8	4	5	7	11
Non-science and engineering	137	140	143	196	184	194	210	216	249	213
Education	91	78	89	116	103	113	116	137	155	125
Health	8	6	7	15	14	11	7	8	13	9
Humanities	33	39	37	54	49	57	65	60	61	65
Professional/other/unknown	5	17	10	11	18	13	22	11	20	14
Puerto Rican, all fields	269	252	313	308	335	326	303	345	261	258
Science and engineering	137	142	171	173	184	183	155	196	148	139
Science	124	120	148	156	161	163	142	170	129	120
Agricultural sciences	4	4	4	3	1	6	6	9	3	4
Biological sciences	30	32	36	43	47	33	48	56	35	50
Computer sciences	0	5	6	2	6	4	1	4	2	4
Earth, atmospheric, and ocean sciences	1	3	6	5	5	5	1	3	4	5
Mathematics	1	3	4	7	2	2	2	3	3	2
Physical sciences	21	12	20	11	22	20	14	20	17	16
Astronomy	1	0	0	1	0	0	0	1	1	0
Chemistry	17	9	13	9	18	19	11	11	14	15

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	3	3	7	1	4	1	3	8	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	44	48	56	71	57	74	45	50	47	19
Social sciences	23	13	16	14	21	19	25	25	18	20
Engineering	13	22	23	17	23	20	13	26	19	19
Chemical engineering	4	4	1	3	2	5	2	8	4	1
Civil engineering	1	1	5	1	2	2	2	1	4	7
Electrical engineering	3	4	4	3	11	6	2	7	4	4
Mechanical engineering	1	3	6	5	2	2	1	3	2	3
Other engineering	4	10	7	5	6	5	6	7	5	4
Non-science and engineering	132	110	142	135	151	143	148	149	113	119
Education	69	52	72	77	90	75	88	79	52	56
Health	12	7	10	7	11	9	5	9	4	16
Humanities	30	38	49	37	31	44	41	51	42	35
Professional/other/unknown	21	13	11	14	19	15	14	10	15	12
Other Hispanic, all fields	377	423	453	488	510	454	446	492	558	490
Science and engineering	212	250	249	297	307	261	261	272	300	287
Science	178	211	208	242	270	238	217	227	244	255
Agricultural sciences	4	3	9	13	7	8	11	4	9	5
Biological sciences	49	49	55	58	69	77	54	53	71	70
Computer sciences	3	6	7	8	6	4	3	6	3	5
Earth, atmospheric, and ocean sciences	2	5	6	5	8	6	2	4	6	2
Mathematics	6	4	10	12	3	3	6	6	7	12
Physical sciences	27	19	24	17	19	30	32	20	19	20
Astronomy	1	0	3	0	1	1	4	1	1	4
Chemistry	13	9	14	10	14	13	22	17	5	10
Physics	13	10	7	7	4	15	6	2	13	6
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	47	81	56	75	108	69	67	79	64	93
Social sciences	40	44	41	54	50	41	42	55	65	48
Engineering	34	39	41	55	37	23	44	45	56	32
Chemical engineering	5	7	2	6	3	4	3	5	7	6
Civil engineering	3	1	3	9	6	2	5	5	7	4
Electrical engineering	8	14	14	18	14	9	5	17	14	4
Mechanical engineering	3	4	5	11	5	2	12	4	8	6
Other engineering	15	13	17	11	9	6	19	14	20	12
Non-science and engineering	165	173	204	191	203	193	185	220	258	203
Education	75	75	86	92	96	86	63	90	121	80
Health	9	18	12	15	14	13	12	13	21	19
Humanities	60	61	87	65	80	75	88	94	101	80
Professional/other/unknown	21	19	19	19	13	19	22	23	15	24
White, all fields	23,891	23,847	23,181	23,455	23,093	22,969	21,936	20,767	20,875	20,745
Science and engineering	13,360	13,449	13,293	13,448	13,194	12,921	12,257	11,490	11,611	11,619
Science	11,402	11,323	11,142	11,411	11,204	11,157	10,608	10,096	10,154	10,162
Agricultural sciences	511	463	451	439	442	433	417	406	452	452
Biological sciences	3,020	3,050	3,069	3,139	3,017	3,196	3,139	3,027	2,976	3,100
Computer sciences	416	342	341	383	336	310	300	266	294	309
Earth, atmospheric, and ocean sciences	397	389	422	414	355	380	330	353	352	354
Mathematics	507	440	449	491	474	437	396	352	380	375
Physical sciences	1,847	1,823	1,794	1,835	1,750	1,611	1,557	1,478	1,497	1,420
Astronomy	109	127	129	113	104	111	99	86	100	92
Chemistry	1,065	1,027	1,040	1,095	1,054	952	936	953	973	894
Physics	660	660	611	612	582	531	509	428	407	424
Other physical sciences	13	9	14	15	10	17	13	11	17	10
Psychology	2,674	2,701	2,481	2,594	2,667	2,570	2,416	2,189	2,224	2,110
Social sciences	2,030	2,115	2,135	2,116	2,163	2,220	2,053	2,025	1,979	2,042

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	1,958	2,126	2,151	2,037	1,990	1,764	1,649	1,394	1,457	1,457
Chemical engineering	242	261	269	262	279	268	262	214	203	210
Civil engineering	175	184	206	197	219	181	176	170	203	149
Electrical engineering	540	542	529	485	472	397	337	280	264	288
Mechanical engineering	320	369	361	348	323	262	292	212	228	196
Other engineering	681	770	786	745	697	656	582	518	559	614
Non-science and engineering	10,531	10,398	9,888	10,007	9,899	10,048	9,679	9,277	9,264	9,126
Education	4,796	4,879	4,414	4,349	4,438	4,329	4,160	4,001	4,101	3,962
Health	806	805	813	906	816	941	899	946	938	943
Humanities	3,367	3,329	3,366	3,460	3,467	3,581	3,472	3,263	3,229	3,164
Professional/other/unknown	1,562	1,385	1,295	1,292	1,178	1,197	1,148	1,067	996	1,057
Other/unknown, all fields ^c	360	415	1,109	968	561	669	818	832	1,135	1,062
Science and engineering	227	253	636	568	334	409	489	465	670	650
Science	176	214	520	469	269	343	411	384	599	557
Agricultural sciences	7	9	23	14	11	13	11	9	19	25
Biological sciences	40	52	107	105	71	109	115	110	171	152
Computer sciences	11	15	27	25	12	12	14	8	22	18
Earth, atmospheric, and ocean sciences	7	6	21	17	11	15	15	16	18	25
Mathematics	5	9	24	20	13	8	11	13	23	22
Physical sciences	39	48	73	80	43	44	65	56	99	94
Astronomy	3	4	10	9	1	5	5	4	14	8
Chemistry	12	18	39	41	22	26	35	30	60	51
Physics	22	26	24	29	19	13	25	22	24	35
Other physical sciences	2	0	0	1	1	0	0	0	1	0
Psychology	31	25	133	116	37	56	93	73	113	103
Social sciences	36	50	112	92	71	86	87	99	134	118
Engineering	51	39	116	99	65	66	78	81	71	93
Chemical engineering	6	4	13	14	6	6	11	12	10	14
Civil engineering	2	1	9	11	4	8	16	9	8	4
Electrical engineering	16	11	41	15	20	18	14	21	19	25
Mechanical engineering	12	4	16	17	14	10	11	15	13	14
Other engineering	15	19	37	42	21	24	26	24	21	36
Non-science and engineering	133	162	473	400	227	260	329	367	465	412
Education	42	68	243	162	90	103	113	159	194	151
Health	17	14	18	33	15	20	28	25	47	44
Humanities	59	60	159	154	98	113	148	142	178	155
Professional/other/unknown	15	20	53	51	24	24	40	41	46	62

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	14,965	14,720	15,047	14,872	14,514	14,155	13,642	12,855	13,077	12,986
Science and engineering	9,596	9,581	9,884	9,736	9,443	9,081	8,689	8,148	8,299	8,323
Science	7,584	7,403	7,560	7,547	7,383	7,280	6,953	6,622	6,768	6,794
Agricultural sciences	419	363	377	334	338	324	291	290	345	321
Biological sciences	2,006	1,961	2,031	2,075	2,011	2,097	2,115	2,063	2,025	2,084
Computer sciences	368	345	347	373	330	315	283	277	309	309
Earth, atmospheric, and ocean sciences	327	313	345	328	298	295	242	243	263	249
Mathematics	422	385	387	405	374	373	332	289	340	323
Physical sciences	1,617	1,611	1,658	1,629	1,564	1,408	1,394	1,288	1,316	1,289
Astronomy	99	106	126	109	87	95	92	82	97	81
Chemistry	829	837	882	895	894	744	762	752	804	765
Physics	676	661	639	616	578	556	529	449	402	440
Other physical sciences	13	7	11	9	5	13	11	5	13	3
Psychology	1,092	1,022	987	1,026	1,042	1,022	960	890	872	877
Social sciences	1,333	1,403	1,428	1,377	1,426	1,446	1,336	1,282	1,298	1,342
Engineering	2,012	2,178	2,324	2,189	2,060	1,801	1,736	1,526	1,531	1,529
Chemical engineering	221	235	260	263	268	248	250	229	204	219
Civil engineering	170	175	204	196	207	179	163	161	176	135
Electrical engineering	604	625	679	572	577	463	422	379	360	366
Mechanical engineering	355	391	409	392	347	294	352	251	256	229
Other engineering	662	752	772	766	661	617	549	506	535	580
Non-science and engineering	5,369	5,139	5,163	5,136	5,071	5,074	4,953	4,707	4,778	4,663
Education	2,149	2,154	1,976	1,979	1,946	1,882	1,836	1,759	1,812	1,757
Health	263	248	254	273	285	309	312	315	329	325
Humanities	1,938	1,855	2,065	2,072	2,065	2,116	2,050	1,984	1,985	1,899
Professional/other/unknown	1,019	882	868	812	775	767	755	649	652	682
American Indian/Alaska Native, all fields	80	101	79	104	96	76	66	67	52	57
Science and engineering	42	60	45	54	59	43	39	35	34	33
Science	33	48	31	45	49	39	35	28	25	30
Agricultural sciences	2	3	5	7	1	4	0	2	3	2
Biological sciences	10	11	4	6	10	10	8	6	3	10
Computer sciences	0	2	0	4	0	1	0	1	2	2
Earth, atmospheric, and ocean sciences	0	1	1	2	3	3	0	0	1	4
Mathematics	1	1	1	1	1	1	0	2	1	0
Physical sciences	5	5	10	8	6	7	10	7	1	4
Astronomy	0	0	1	1	0	0	1	0	0	0
Chemistry	3	3	6	6	3	6	9	5	1	4
Physics	2	2	2	1	3	1	0	2	0	0
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Psychology	6	8	6	13	12	3	5	7	8	4
Social sciences	9	17	4	4	16	10	12	3	6	4
Engineering	9	12	14	9	10	4	4	7	9	3
Chemical engineering	2	1	3	0	1	0	1	2	0	1
Civil engineering	0	1	1	0	1	0	0	0	1	2
Electrical engineering	1	1	5	3	1	0	1	0	5	0
Mechanical engineering	2	3	5	2	2	2	1	1	0	0
Other engineering	4	6	0	4	5	2	1	4	3	0
Non-science and engineering	38	41	34	50	37	33	27	32	18	24
Education	17	22	18	26	19	17	12	16	8	14
Health	2	1	2	1	0	1	2	0	1	0
Humanities	10	10	8	14	11	11	9	12	7	7
Professional/other/unknown	9	8	6	9	7	4	4	4	2	3
Asian, all fields ^a	662	603	742	641	764	740	747	747	734	725
Science and engineering	566	505	633	523	629	598	604	626	594	594
Science	364	285	389	331	407	414	401	428	435	416
Agricultural sciences	5	7	16	5	11	11	3	7	4	5

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	125	108	132	131	166	172	192	197	210	190
Computer sciences	34	28	31	29	34	33	24	37	37	33
Earth, atmospheric, and ocean sciences	7	4	7	4	10	4	9	1	5	4
Mathematics	18	15	27	12	23	34	22	15	21	20
Physical sciences	98	72	106	84	82	64	79	88	69	88
Astronomy	3	3	6	5	2	6	6	9	5	4
Chemistry	51	32	51	49	53	22	35	48	39	56
Physics	44	37	49	30	27	36	38	31	25	28
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	30	20	21	23	31	39	21	36	35	24
Social sciences	47	31	49	43	50	57	51	47	54	52
Engineering	202	220	244	192	222	184	203	198	159	178
Chemical engineering	16	17	14	27	23	29	24	37	28	33
Civil engineering	13	11	10	13	19	12	10	11	8	9
Electrical engineering	80	95	112	68	80	65	69	69	60	54
Mechanical engineering	33	36	42	29	37	30	43	24	19	32
Other engineering	60	61	66	55	63	48	57	57	44	50
Non-science and engineering	96	98	109	118	135	142	143	121	140	131
Education	27	29	25	36	41	42	29	32	31	27
Health	7	16	15	14	16	18	23	10	29	21
Humanities	28	26	41	37	41	44	51	54	47	57
Professional/other/unknown	34	27	28	31	37	38	40	25	33	26
Black/African American, all fields	487	531	528	524	609	560	591	612	598	644
Science and engineering	216	251	261	238	294	270	273	279	254	284
Science	176	211	200	186	232	220	216	229	201	232
Agricultural sciences	6	15	10	8	12	4	4	4	11	7
Biological sciences	51	46	44	34	47	40	43	51	38	52
Computer sciences	5	9	3	4	8	8	3	10	12	10
Earth, atmospheric, and ocean sciences	0	0	2	4	4	2	3	4	5	5
Mathematics	3	6	4	5	4	7	10	5	10	6
Physical sciences	19	33	35	25	30	34	27	35	31	27
Astronomy	1	0	1	1	0	0	1	0	1	0
Chemistry	11	24	23	17	27	20	18	19	23	21
Physics	7	9	11	7	3	14	8	16	7	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	37	38	37	38	36	42	48	39	39	48
Social sciences	55	64	65	68	91	83	78	81	55	77
Engineering	40	40	61	52	62	50	57	50	53	52
Chemical engineering	1	5	6	2	5	3	6	5	6	2
Civil engineering	4	5	9	5	3	4	7	6	4	2
Electrical engineering	16	12	24	18	21	17	19	11	17	22
Mechanical engineering	7	6	9	12	9	12	16	12	8	13
Other engineering	12	12	13	15	24	14	9	16	18	13
Non-science and engineering	271	280	267	286	315	290	318	333	344	360
Education	176	184	155	176	185	175	196	200	224	224
Health	14	10	12	11	8	11	9	12	15	23
Humanities	43	47	55	62	61	61	61	67	54	62
Professional/other/unknown	38	39	45	37	61	43	52	54	51	51
Hispanic, all fields ^b	463	480	543	610	510	546	498	540	592	543
Science and engineering	284	297	338	381	316	337	286	312	332	318
Science	233	224	277	294	267	278	231	248	260	262
Agricultural sciences	9	6	12	16	7	13	10	12	11	4
Biological sciences	68	58	74	79	86	73	77	62	89	77
Computer sciences	2	7	13	12	9	9	3	11	5	9
Earth, atmospheric, and ocean sciences	4	9	10	10	14	12	3	11	6	5
Mathematics	9	9	12	18	9	7	9	8	9	17

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	42	42	46	39	35	50	41	37	42	35
Astronomy	1	1	2	2	1	1	6	2	2	4
Chemistry	24	26	26	25	21	29	24	19	23	20
Physics	17	15	18	12	13	19	11	16	17	11
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	44	51	60	54	53	58	41	54	48	53
Social sciences	55	42	50	66	54	56	47	53	50	62
Engineering	51	73	61	87	49	59	55	64	72	56
Chemical engineering	10	10	4	10	2	10	1	9	11	6
Civil engineering	6	2	9	12	5	7	6	7	7	13
Electrical engineering	13	23	17	25	24	19	13	25	18	10
Mechanical engineering	5	11	10	18	7	9	17	5	11	7
Other engineering	17	27	21	22	11	14	18	18	25	20
Non-science and engineering	179	183	205	229	194	209	212	228	260	225
Education	82	83	85	109	89	97	88	98	115	95
Health	15	11	7	12	11	10	5	8	9	10
Humanities	60	65	90	83	75	82	86	101	114	92
Professional/other/unknown	22	24	23	25	19	20	33	21	22	28
Mexican American, all fields	148	159	155	211	153	196	189	172	202	211
Science and engineering	80	89	87	130	83	120	96	82	103	108
Science	67	66	76	105	76	97	83	72	92	91
Agricultural sciences	2	1	2	6	3	4	3	3	6	2
Biological sciences	16	16	20	29	23	25	30	21	32	28
Computer sciences	1	1	2	3	0	2	2	3	1	3
Earth, atmospheric, and ocean sciences	2	3	2	4	4	3	1	4	0	2
Mathematics	3	2	2	3	5	4	3	1	2	6
Physical sciences	9	17	12	18	10	19	13	10	15	11
Astronomy	0	1	0	1	0	0	3	0	1	1
Chemistry	6	12	7	12	5	14	4	4	10	6
Physics	3	4	5	5	5	5	6	6	4	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	14	18	20	18	14	22	17	15	16	13
Social sciences	20	8	16	24	17	18	14	15	20	26
Engineering	13	23	11	25	7	23	13	10	11	17
Chemical engineering	2	3	2	1	0	3	0	1	2	2
Civil engineering	3	0	1	4	1	4	0	1	0	4
Electrical engineering	3	8	2	6	2	4	6	4	2	3
Mechanical engineering	1	4	2	3	1	6	4	1	2	0
Other engineering	4	8	4	11	3	6	3	3	5	8
Non-science and engineering	68	70	68	81	70	76	93	90	99	103
Education	40	37	41	45	35	45	50	49	56	55
Health	3	2	0	1	3	2	2	3	2	3
Humanities	21	21	21	30	27	22	28	32	34	37
Professional/other/unknown	4	10	6	5	5	7	13	6	7	8
Puerto Rican, all fields	120	114	153	128	141	128	122	149	126	107
Science and engineering	74	74	98	69	88	77	68	92	75	65
Science	63	57	79	53	73	61	59	77	58	48
Agricultural sciences	3	3	3	2	0	3	2	6	0	0
Biological sciences	21	14	20	20	24	11	18	18	21	21
Computer sciences	0	4	6	1	5	4	1	4	2	2
Earth, atmospheric, and ocean sciences	1	3	4	2	4	5	1	3	4	2
Mathematics	0	3	3	4	2	1	2	3	1	1
Physical sciences	12	8	18	6	13	10	10	16	11	7
Astronomy	0	0	0	1	0	0	0	1	0	0
Chemistry	9	6	11	4	9	9	8	7	9	6

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	3	2	7	1	4	1	2	8	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	13	15	20	12	16	14	9	14	10	4
Social sciences	13	7	5	6	9	13	16	13	9	11
Engineering	11	17	19	16	15	16	9	15	17	17
Chemical engineering	3	2	1	3	1	3	0	3	4	0
Civil engineering	1	1	5	1	1	2	2	1	3	7
Electrical engineering	3	4	3	3	9	6	2	6	4	3
Mechanical engineering	1	3	6	5	2	2	1	1	1	3
Other engineering	3	7	4	4	2	3	4	4	5	4
Non-science and engineering	46	40	55	59	53	51	54	57	51	42
Education	19	17	21	28	24	24	26	26	17	17
Health	7	2	3	3	5	3	2	2	0	2
Humanities	14	16	26	20	14	19	18	26	29	17
Professional/other/unknown	6	5	5	8	10	5	8	3	5	6
Other Hispanic, all fields	195	207	235	271	216	222	187	219	264	225
Science and engineering	130	134	153	182	145	140	122	138	154	145
Science	103	101	122	136	118	120	89	99	110	123
Agricultural sciences	4	2	7	8	4	6	5	3	5	2
Biological sciences	31	28	34	30	39	37	29	23	36	28
Computer sciences	1	2	5	8	4	3	0	4	2	4
Earth, atmospheric, and ocean sciences	1	3	4	4	6	4	1	4	2	1
Mathematics	6	4	7	11	2	2	4	4	6	10
Physical sciences	21	17	16	15	12	21	18	11	16	17
Astronomy	1	0	2	0	1	1	3	1	1	3
Chemistry	9	8	8	9	7	6	12	8	4	8
Physics	11	9	6	6	4	13	3	2	11	6
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	17	18	20	24	23	22	15	25	22	36
Social sciences	22	27	29	36	28	25	17	25	21	25
Engineering	27	33	31	46	27	20	33	39	44	22
Chemical engineering	5	5	1	6	1	4	1	5	5	4
Civil engineering	2	1	3	7	3	1	4	5	4	2
Electrical engineering	7	11	12	16	13	9	5	15	12	4
Mechanical engineering	3	4	2	10	4	1	12	3	8	4
Other engineering	10	12	13	7	6	5	11	11	15	8
Non-science and engineering	65	73	82	89	71	82	65	81	110	80
Education	23	29	23	36	30	28	12	23	42	23
Health	5	7	4	8	3	5	1	3	7	5
Humanities	25	28	43	33	34	41	40	43	51	38
Professional/other/unknown	12	9	12	12	4	8	12	12	10	14
White, all fields	13,037	12,744	12,532	12,423	12,200	11,853	11,293	10,450	10,494	10,446
Science and engineering	8,322	8,290	8,212	8,169	7,919	7,574	7,188	6,616	6,675	6,693
Science	6,661	6,489	6,373	6,411	6,261	6,129	5,836	5,478	5,495	5,532
Agricultural sciences	393	325	320	290	299	281	268	258	303	286
Biological sciences	1,721	1,707	1,717	1,756	1,663	1,734	1,724	1,682	1,577	1,676
Computer sciences	318	286	278	306	269	253	243	212	235	240
Earth, atmospheric, and ocean sciences	310	294	311	294	259	265	214	222	235	218
Mathematics	388	347	325	353	326	318	285	251	281	260
Physical sciences	1,422	1,418	1,403	1,404	1,376	1,216	1,186	1,074	1,099	1,056
Astronomy	91	98	107	91	83	85	74	68	77	67
Chemistry	733	737	748	766	773	644	652	638	676	624
Physics	587	576	538	539	515	475	449	363	333	362
Other physical sciences	11	7	10	8	5	12	11	5	13	3
Psychology	965	896	824	865	899	864	815	730	705	719
Social sciences	1,144	1,216	1,195	1,143	1,170	1,198	1,101	1,049	1,060	1,077

TABLE 9. Doctorates awarded to male U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	1,661	1,801	1,839	1,758	1,658	1,445	1,352	1,138	1,180	1,161
Chemical engineering	186	198	221	212	233	202	207	166	153	165
Civil engineering	145	155	168	156	175	149	128	132	148	106
Electrical engineering	480	483	483	443	433	346	307	253	244	256
Mechanical engineering	296	332	329	316	279	231	266	194	206	165
Other engineering	554	633	638	631	538	517	444	393	429	469
Non-science and engineering	4,715	4,454	4,320	4,254	4,281	4,279	4,105	3,834	3,819	3,753
Education	1,830	1,803	1,601	1,568	1,578	1,518	1,473	1,354	1,364	1,351
Health	221	207	214	223	245	262	266	276	258	256
Humanities	1,758	1,675	1,776	1,784	1,826	1,849	1,763	1,675	1,676	1,610
Professional/other/unknown	906	769	729	679	632	650	603	529	521	536
Other/unknown, all fields ^c	236	261	623	570	335	380	447	439	607	571
Science and engineering	166	178	395	371	226	259	299	280	410	401
Science	117	146	290	280	167	200	234	211	352	322
Agricultural sciences	4	7	14	8	8	11	6	7	13	17
Biological sciences	31	31	60	69	39	68	71	65	108	79
Computer sciences	9	13	22	18	10	11	10	6	18	15
Earth, atmospheric, and ocean sciences	6	5	14	14	8	9	13	5	11	13
Mathematics	3	7	18	16	11	6	6	8	18	20
Physical sciences	31	41	58	69	35	37	51	47	74	79
Astronomy	3	4	9	9	1	3	4	3	12	6
Chemistry	7	15	28	32	17	23	24	23	42	40
Physics	19	22	21	27	17	11	23	21	20	33
Other physical sciences	2	0	0	1	0	0	0	0	0	0
Psychology	10	9	39	33	11	16	30	24	37	29
Social sciences	23	33	65	53	45	42	47	49	73	70
Engineering	49	32	105	91	59	59	65	69	58	79
Chemical engineering	6	4	12	12	4	4	11	10	6	12
Civil engineering	2	1	7	10	4	7	12	5	8	3
Electrical engineering	14	11	38	15	18	16	13	21	16	24
Mechanical engineering	12	3	14	15	13	10	9	15	12	12
Other engineering	15	13	34	39	20	22	20	18	16	28
Non-science and engineering	70	83	228	199	109	121	148	159	197	170
Education	17	33	92	64	34	33	38	59	70	46
Health	4	3	4	12	5	7	7	9	17	15
Humanities	39	32	95	92	51	69	80	75	87	71
Professional/other/unknown	10	15	37	31	19	12	23	16	23	38

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	12,776	13,055	13,072	13,571	13,472	13,821	13,398	13,155	13,405	13,442
Science and engineering	5,890	6,057	6,215	6,495	6,471	6,623	6,379	6,196	6,315	6,396
Science	5,516	5,639	5,801	6,120	6,045	6,203	5,968	5,830	5,942	5,984
Agricultural sciences	135	154	153	171	168	174	176	168	175	206
Biological sciences	1,487	1,585	1,637	1,681	1,649	1,807	1,784	1,734	1,765	1,869
Computer sciences	116	77	82	103	91	73	84	78	78	89
Earth, atmospheric, and ocean sciences	89	104	127	131	114	129	125	146	135	156
Mathematics	132	105	143	171	165	145	137	122	131	132
Physical sciences	519	467	472	512	471	482	467	491	502	459
Astronomy	21	31	25	23	24	32	27	22	29	32
Chemistry	409	333	351	393	362	375	365	385	367	345
Physics	87	101	92	89	79	69	73	78	98	75
Other physical sciences	2	2	4	7	6	6	2	6	8	7
Psychology	1,991	2,107	2,044	2,151	2,180	2,133	1,998	1,834	1,915	1,847
Social sciences	1,047	1,040	1,143	1,200	1,207	1,260	1,197	1,257	1,241	1,226
Engineering	374	418	414	375	426	420	411	366	373	412
Chemical engineering	70	83	61	64	65	91	82	73	68	71
Civil engineering	36	37	45	50	54	42	59	49	63	55
Electrical engineering	79	83	74	66	62	69	43	45	46	53
Mechanical engineering	28	45	46	41	52	47	34	34	31	42
Other engineering	161	170	188	154	193	171	193	165	165	191
Non-science and engineering	6,886	6,998	6,857	7,076	7,001	7,198	7,019	6,959	7,090	7,046
Education	3,628	3,725	3,597	3,590	3,690	3,672	3,498	3,527	3,699	3,548
Health	675	685	704	799	687	811	777	811	841	873
Humanities	1,810	1,873	1,876	1,950	1,943	2,043	2,063	1,930	1,911	1,909
Professional/other/unknown	773	715	680	737	681	672	681	691	639	716
American Indian/Alaska Native, all fields	68	84	88	85	118	93	82	80	82	72
Science and engineering	26	34	34	42	55	45	32	32	38	27
Science	26	32	31	38	53	41	30	32	36	25
Agricultural sciences	0	4	0	2	0	1	0	0	1	2
Biological sciences	5	9	3	6	10	7	7	6	8	4
Computer sciences	0	2	1	0	1	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	1	1	3	1	0	0	1	0
Mathematics	1	0	0	2	0	1	1	1	1	0
Physical sciences	3	1	0	1	3	2	2	0	1	1
Astronomy	0	0	0	0	1	1	0	0	0	0
Chemistry	3	1	0	1	2	1	2	0	1	0
Physics	0	0	0	0	0	0	0	0	0	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	8	9	12	18	23	19	12	8	14	9
Social sciences	9	7	14	8	13	10	8	17	10	9
Engineering	0	2	3	4	2	4	2	0	2	2
Chemical engineering	0	0	1	3	1	1	0	0	1	1
Civil engineering	0	1	1	0	1	1	0	0	0	1
Electrical engineering	0	1	0	0	0	0	0	0	0	0
Mechanical engineering	0	0	1	0	0	1	0	0	0	0
Other engineering	0	0	0	1	0	1	2	0	1	0
Non-science and engineering	42	50	54	43	63	48	50	48	44	45
Education	24	38	33	24	39	34	30	30	31	32
Health	7	3	4	3	6	3	4	3	1	3
Humanities	8	8	11	7	10	9	12	8	8	5
Professional/other/unknown	3	1	6	9	8	2	4	7	4	5
Asian, all fields ^a	467	463	553	513	540	623	649	617	620	724
Science and engineering	318	316	366	346	359	393	431	410	397	472
Science	266	265	320	295	318	337	376	361	352	421
Agricultural sciences	6	6	6	3	11	4	6	6	4	8

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	100	125	123	118	122	146	165	176	165	189
Computer sciences	8	9	11	10	9	8	10	13	7	9
Earth, atmospheric, and ocean sciences	0	3	3	1	4	3	3	4	2	2
Mathematics	6	8	6	13	6	10	8	4	17	9
Physical sciences	48	33	44	33	41	38	41	32	40	37
Astronomy	1	2	0	1	0	2	0	1	3	3
Chemistry	39	23	30	22	35	27	35	25	24	28
Physics	8	8	14	10	6	8	6	6	12	6
Other physical sciences	0	0	0	0	0	1	0	0	1	0
Psychology	53	55	80	69	79	82	82	68	68	111
Social sciences	45	26	47	48	46	46	61	58	49	56
Engineering	52	51	46	51	41	56	55	49	45	51
Chemical engineering	11	10	3	9	9	14	13	11	8	13
Civil engineering	2	6	3	3	1	6	5	3	2	4
Electrical engineering	12	14	16	18	12	14	9	11	16	9
Mechanical engineering	4	4	8	6	5	9	5	7	6	5
Other engineering	23	17	16	15	14	13	23	17	13	20
Non-science and engineering	149	147	187	167	181	230	218	207	223	252
Education	57	58	75	62	59	82	74	66	77	86
Health	15	21	27	18	29	37	49	45	41	42
Humanities	56	52	63	64	71	80	69	77	81	83
Professional/other/unknown	21	16	22	23	22	31	26	19	24	41
Black/African American, all fields	806	774	807	961	1,021	1,069	1,023	1,051	1,111	1,225
Science and engineering	245	236	269	336	344	376	358	355	361	401
Science	232	217	247	315	321	352	333	329	343	369
Agricultural sciences	5	1	5	2	7	8	5	5	7	11
Biological sciences	39	36	57	67	62	70	81	63	62	84
Computer sciences	4	3	1	8	9	5	10	7	5	5
Earth, atmospheric, and ocean sciences	0	1	1	1	4	1	2	0	4	1
Mathematics	1	2	2	7	6	7	7	8	4	2
Physical sciences	17	12	10	26	24	18	19	27	19	21
Astronomy	0	0	1	0	2	1	0	1	0	0
Chemistry	16	10	8	23	19	16	18	22	12	18
Physics	1	2	1	3	3	1	1	4	5	3
Other physical sciences	0	0	0	0	0	0	0	0	2	0
Psychology	106	106	105	114	132	142	121	124	124	154
Social sciences	60	56	66	90	77	101	88	95	118	91
Engineering	13	19	22	21	23	24	25	26	18	32
Chemical engineering	1	5	6	1	4	5	10	5	2	7
Civil engineering	3	1	0	2	2	1	0	4	2	3
Electrical engineering	4	5	3	4	5	2	1	4	4	9
Mechanical engineering	0	3	1	0	1	5	1	4	1	2
Other engineering	5	5	12	14	11	11	13	9	9	11
Non-science and engineering	561	538	538	625	677	693	665	696	750	824
Education	403	396	372	452	476	499	453	476	517	548
Health	41	32	39	49	43	56	51	55	60	78
Humanities	54	58	70	69	89	84	97	86	88	95
Professional/other/unknown	63	52	57	55	69	54	64	79	85	103
Hispanic, all fields ^b	459	477	520	594	674	633	630	698	684	634
Science and engineering	204	237	236	302	330	312	299	341	324	324
Science	194	223	215	289	308	302	280	318	306	307
Agricultural sciences	3	3	3	9	4	7	11	8	8	11
Biological sciences	36	51	57	71	69	81	72	99	69	97
Computer sciences	4	5	2	1	3	2	3	2	3	3
Earth, atmospheric, and ocean sciences	1	4	5	5	4	3	2	0	4	5
Mathematics	3	0	5	7	3	6	5	3	5	4

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	19	9	12	10	21	22	20	19	19	21
Astronomy	2	0	1	0	0	0	1	1	1	2
Chemistry	14	6	10	9	20	20	15	16	15	18
Physics	3	3	1	1	1	2	4	2	3	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	94	116	101	143	152	144	119	126	114	109
Social sciences	34	35	30	43	52	37	48	61	84	57
Engineering	10	14	21	13	22	10	19	23	18	17
Chemical engineering	2	5	2	0	3	3	4	7	3	3
Civil engineering	1	0	1	3	6	1	2	0	4	3
Electrical engineering	1	4	6	2	4	0	2	3	3	2
Mechanical engineering	0	0	3	1	1	1	0	5	1	2
Other engineering	6	5	9	7	8	5	11	8	7	7
Non-science and engineering	255	240	284	292	344	321	331	357	360	310
Education	153	122	162	175	200	177	179	208	213	166
Health	14	20	22	25	28	23	19	22	29	34
Humanities	63	73	83	73	85	94	108	104	90	88
Professional/other/unknown	25	25	17	19	31	27	25	23	28	22
Mexican American, all fields	128	123	142	198	186	204	190	229	255	218
Science and engineering	59	53	67	83	72	86	73	103	105	108
Science	58	50	60	80	68	83	69	97	101	103
Agricultural sciences	2	1	0	3	0	2	1	4	1	4
Biological sciences	9	12	20	20	16	19	17	31	20	26
Computer sciences	2	0	0	0	0	1	0	0	2	0
Earth, atmospheric, and ocean sciences	0	2	1	1	1	1	1	0	0	1
Mathematics	2	0	1	3	2	4	3	1	2	1
Physical sciences	4	3	2	3	5	3	2	6	10	9
Astronomy	1	0	0	0	0	0	0	1	0	1
Chemistry	2	2	2	3	4	3	2	3	9	7
Physics	1	1	0	0	1	0	0	2	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	33	20	29	33	26	38	31	36	35	37
Social sciences	6	12	7	17	18	15	14	19	31	25
Engineering	1	3	7	3	4	3	4	6	4	5
Chemical engineering	1	1	1	0	0	1	0	2	1	0
Civil engineering	0	0	1	1	2	0	1	0	0	1
Electrical engineering	0	1	3	0	1	0	2	0	1	1
Mechanical engineering	0	0	0	0	0	0	0	2	0	0
Other engineering	0	1	2	2	1	2	1	2	2	3
Non-science and engineering	69	70	75	115	114	118	117	126	150	110
Education	51	41	48	71	68	68	66	88	99	70
Health	5	4	7	14	11	9	5	5	11	6
Humanities	12	18	16	24	22	35	37	28	27	28
Professional/other/unknown	1	7	4	6	13	6	9	5	13	6
Puerto Rican, all fields	149	138	160	180	194	197	181	196	135	151
Science and engineering	63	68	73	104	96	105	87	104	73	74
Science	61	63	69	103	88	101	83	93	71	72
Agricultural sciences	1	1	1	1	1	3	4	3	3	4
Biological sciences	9	18	16	23	23	22	30	38	14	29
Computer sciences	0	1	0	1	1	0	0	0	0	2
Earth, atmospheric, and ocean sciences	0	0	2	3	1	0	0	0	0	3
Mathematics	1	0	1	3	0	1	0	0	2	1
Physical sciences	9	4	2	5	9	10	4	4	6	9
Astronomy	1	0	0	0	0	0	0	0	1	0
Chemistry	8	3	2	5	9	10	3	4	5	9

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	0	1	0	0	0	0	1	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	31	33	36	59	41	59	36	36	37	15
Social sciences	10	6	11	8	12	6	9	12	9	9
Engineering	2	5	4	1	8	4	4	11	2	2
Chemical engineering	1	2	0	0	1	2	2	5	0	1
Civil engineering	0	0	0	0	1	0	0	0	1	0
Electrical engineering	0	0	1	0	2	0	0	1	0	1
Mechanical engineering	0	0	0	0	0	0	0	2	1	0
Other engineering	1	3	3	1	4	2	2	3	0	0
Non-science and engineering	86	70	87	76	98	92	94	92	62	77
Education	50	35	51	49	66	51	62	53	35	39
Health	5	5	7	4	6	6	3	7	4	14
Humanities	16	22	23	17	17	25	23	25	13	18
Professional/other/unknown	15	8	6	6	9	10	6	7	10	6
Other Hispanic, all fields	182	216	218	216	294	232	259	273	294	265
Science and engineering	82	116	96	115	162	121	139	134	146	142
Science	75	110	86	106	152	118	128	128	134	132
Agricultural sciences	0	1	2	5	3	2	6	1	4	3
Biological sciences	18	21	21	28	30	40	25	30	35	42
Computer sciences	2	4	2	0	2	1	3	2	1	1
Earth, atmospheric, and ocean sciences	1	2	2	1	2	2	1	0	4	1
Mathematics	0	0	3	1	1	1	2	2	1	2
Physical sciences	6	2	8	2	7	9	14	9	3	3
Astronomy	0	0	1	0	0	0	1	0	0	1
Chemistry	4	1	6	1	7	7	10	9	1	2
Physics	2	1	1	1	0	2	3	0	2	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	30	63	36	51	85	47	52	54	42	57
Social sciences	18	17	12	18	22	16	25	30	44	23
Engineering	7	6	10	9	10	3	11	6	12	10
Chemical engineering	0	2	1	0	2	0	2	0	2	2
Civil engineering	1	0	0	2	3	1	1	0	3	2
Electrical engineering	1	3	2	2	1	0	0	2	2	0
Mechanical engineering	0	0	3	1	1	1	0	1	0	2
Other engineering	5	1	4	4	3	1	8	3	5	4
Non-science and engineering	100	100	122	101	132	111	120	139	148	123
Education	52	46	63	55	66	58	51	67	79	57
Health	4	11	8	7	11	8	11	10	14	14
Humanities	35	33	44	32	46	34	48	51	50	42
Professional/other/unknown	9	10	7	7	9	11	10	11	5	10
White, all fields	10,854	11,103	10,647	11,031	10,893	11,116	10,643	10,316	10,381	10,299
Science and engineering	5,038	5,159	5,080	5,279	5,275	5,347	5,069	4,873	4,936	4,926
Science	4,741	4,834	4,768	5,000	4,943	5,028	4,772	4,617	4,659	4,630
Agricultural sciences	118	138	131	149	143	152	149	147	149	166
Biological sciences	1,299	1,343	1,352	1,383	1,354	1,462	1,415	1,345	1,399	1,424
Computer sciences	98	56	63	77	67	57	57	54	59	69
Earth, atmospheric, and ocean sciences	87	95	110	120	96	115	116	131	117	136
Mathematics	119	93	124	138	148	119	111	101	99	115
Physical sciences	425	405	391	431	374	395	371	404	398	364
Astronomy	18	29	22	22	21	26	25	18	23	25
Chemistry	332	290	292	329	281	308	284	315	297	270
Physics	73	84	73	73	67	56	60	65	74	62
Other physical sciences	2	2	4	7	5	5	2	6	4	7
Psychology	1,709	1,805	1,657	1,729	1,768	1,706	1,601	1,459	1,519	1,391
Social sciences	886	899	940	973	993	1,022	952	976	919	965

TABLE 10. Doctorates awarded to female U.S. citizens, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	297	325	312	279	332	319	297	256	277	296
Chemical engineering	56	63	48	50	46	66	55	48	50	45
Civil engineering	30	29	38	41	44	32	48	38	55	43
Electrical engineering	60	59	46	42	39	51	30	27	20	32
Mechanical engineering	24	37	32	32	44	31	26	18	22	31
Other engineering	127	137	148	114	159	139	138	125	130	145
Non-science and engineering	5,816	5,944	5,567	5,752	5,618	5,769	5,574	5,443	5,445	5,373
Education	2,966	3,076	2,813	2,781	2,860	2,811	2,687	2,647	2,737	2,611
Health	585	598	599	683	571	679	633	670	680	687
Humanities	1,609	1,654	1,590	1,675	1,641	1,732	1,709	1,588	1,553	1,554
Professional/other/unknown	656	616	565	613	546	547	545	538	475	521
Other/unknown, all fields ^c	122	154	457	387	226	287	371	393	527	488
Science and engineering	59	75	230	190	108	150	190	185	259	246
Science	57	68	220	183	102	143	177	173	246	232
Agricultural sciences	3	2	8	6	3	2	5	2	6	8
Biological sciences	8	21	45	36	32	41	44	45	62	71
Computer sciences	2	2	4	7	2	1	4	2	4	3
Earth, atmospheric, and ocean sciences	1	1	7	3	3	6	2	11	7	12
Mathematics	2	2	6	4	2	2	5	5	5	2
Physical sciences	7	7	15	11	8	7	14	9	25	15
Astronomy	0	0	1	0	0	2	1	1	2	2
Chemistry	5	3	11	9	5	3	11	7	18	11
Physics	2	4	3	2	2	2	2	1	4	2
Other physical sciences	0	0	0	0	1	0	0	0	1	0
Psychology	21	16	89	78	26	40	63	49	76	73
Social sciences	13	17	46	38	26	44	40	50	61	48
Engineering	2	7	10	7	6	7	13	12	13	14
Chemical engineering	0	0	1	1	2	2	0	2	4	2
Civil engineering	0	0	2	1	0	1	4	4	0	1
Electrical engineering	2	0	3	0	2	2	1	0	3	1
Mechanical engineering	0	1	1	2	1	0	2	0	1	2
Other engineering	0	6	3	3	1	2	6	6	5	8
Non-science and engineering	63	79	227	197	118	137	181	208	268	242
Education	25	35	142	96	56	69	75	100	124	105
Health	13	11	13	21	10	13	21	16	30	29
Humanities	20	28	59	62	47	44	68	67	91	84
Professional/other/unknown	5	5	13	18	5	11	17	25	23	24

^a Includes Pacific Islanders from 1995 to 2000.

^b Includes Mexican American, Puerto Rican, and other Hispanic.

^c Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 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 science and not in humanities, and public administration is included in social science and not in professional fields.

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 of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All non-U.S. citizens	10,516	10,845	9,790	9,795	8,891	9,069	9,242	8,857	9,507	10,121
North America	508	538	498	576	557	614	599	575	637	678
Canada	274	278	263	288	289	294	307	314	325	381
Caribbean	61	51	49	65	54	54	40	44	44	75
Central America	43	47	38	44	42	57	45	35	49	42
Mexico	130	162	148	179	172	209	207	182	219	180
South America	361	462	414	436	444	447	416	413	459	479
Argentina	50	68	69	71	56	78	69	66	75	89
Brazil	137	207	151	164	164	131	143	126	107	136
Chile	38	37	31	26	33	42	25	40	66	43
Colombia	45	42	40	32	52	56	59	55	83	75
South America, other	91	108	123	143	139	140	120	126	128	136
Europe	1,257	1,269	1,314	1,532	1,486	1,507	1,651	1,552	1,606	1,648
Belgium	32	25	18	17	21	21	24	16	23	17
England, United Kingdom	132	117	92	124	142	100	138	134	110	110
France	82	69	74	77	79	83	85	92	87	91
Germany	208	170	181	210	183	229	220	197	189	184
Europe, other	803	888	949	1,104	1,061	1,074	1,184	1,113	1,197	1,246
East Asia	5,519	5,679	4,810	4,703	4,163	4,299	4,352	4,287	4,553	4,910
China, People's Republic of	2,781	3,022	2,395	2,510	2,233	2,378	2,418	2,401	2,501	2,869
Hong Kong	90	110	86	91	54	46	46	42	32	31
Japan	155	169	155	156	158	201	150	158	202	186
Korea	1,009	985	901	823	760	753	867	855	961	1,053
Taiwan	1,249	1,162	1,093	913	746	676	541	469	442	394
Thailand	114	119	97	123	134	153	236	264	311	271
East Asia, other	121	112	83	87	78	92	94	98	104	106
West Asia	2,192	2,172	2,044	1,844	1,647	1,595	1,647	1,484	1,665	1,781
India	1,212	1,271	1,281	1,142	915	834	815	679	771	857
Iran	173	150	113	93	92	80	100	57	68	59
Iraq	14	9	7	5	5	2	7	3	0	2
Israel	86	84	63	58	47	46	49	50	66	75
Lebanon	56	56	30	38	25	28	28	31	32	32
Saudi Arabia	71	80	70	46	58	56	52	71	65	93
Turkey	167	151	170	172	192	275	309	342	374	344
West Asia, other	413	371	310	290	313	274	287	251	289	319
Pacific/Australasia	231	237	209	206	161	180	160	154	145	173
Australia	61	43	48	46	49	42	44	32	28	45
Indonesia	83	70	67	65	45	63	48	66	47	68
Pacific/Australasia, other	87	124	94	95	67	75	68	56	70	60
Africa	428	445	368	375	338	366	337	297	341	374
Egypt	78	90	77	92	63	83	75	96	110	124
Nigeria	53	39	25	34	35	23	20	13	13	18
Africa, other	297	316	266	249	240	260	242	188	218	232
Country unknown	20	43	133	123	95	61	80	95	101	78
Science	7,033	7,318	6,642	6,734	6,296	6,267	6,152	5,937	6,325	6,578
North America	426	441	413	477	446	496	491	478	521	557
Canada	233	233	219	251	238	244	262	277	291	323
Caribbean	54	43	36	48	41	46	32	35	42	62
Central America	35	40	35	38	37	51	36	31	37	34
Mexico	104	125	123	140	130	155	161	135	151	138
South America	272	344	318	331	345	335	320	321	377	355
Argentina	43	59	54	58	47	66	55	61	65	69
Brazil	91	142	107	113	121	94	106	93	91	99

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Chile	30	29	30	24	27	33	18	32	54	34
Colombia	35	35	36	24	41	40	47	37	65	52
South America, other	73	79	91	112	109	102	94	98	102	101
Europe	960	1,032	1,066	1,227	1,210	1,210	1,316	1,251	1,293	1,331
Belgium	20	21	13	14	20	15	16	12	16	11
England, United Kingdom	112	107	80	112	128	89	127	120	98	94
France	58	44	62	54	56	60	61	67	64	65
Germany	171	154	153	181	145	183	172	152	167	148
Europe, other	599	706	758	866	861	863	940	900	948	1,013
East Asia	3,642	3,798	3,252	3,197	2,877	2,876	2,715	2,626	2,733	2,842
China, People's Republic of	1,999	2,197	1,729	1,808	1,636	1,657	1,536	1,508	1,522	1,661
Hong Kong	70	79	73	64	43	34	31	31	17	25
Japan	125	137	118	135	127	178	127	126	167	158
Korea	664	658	586	532	484	468	530	502	562	550
Taiwan	629	582	628	526	440	385	299	255	254	243
Thailand	76	76	56	70	82	93	122	133	142	134
East Asia, other	79	69	62	62	65	61	70	71	69	71
West Asia	1,226	1,173	1,073	1,006	968	920	906	888	992	1,029
India	637	648	653	599	534	473	463	397	469	491
Iran	88	82	52	49	50	42	38	26	27	28
Iraq	6	7	2	2	0	0	5	2	0	0
Israel	67	64	49	46	39	40	38	44	54	57
Lebanon	25	34	21	20	16	16	18	18	18	21
Saudi Arabia	46	40	39	28	32	39	23	46	42	55
Turkey	93	77	73	90	92	139	165	191	206	198
West Asia, other	264	221	184	172	205	171	156	164	176	179
Pacific/Australasia	187	199	162	157	137	136	120	115	110	125
Australia	54	37	40	42	41	38	34	31	23	40
Indonesia	54	55	44	36	32	36	25	37	25	32
Pacific/Australasia, other	79	107	78	79	64	62	61	47	62	53
Africa	306	301	257	260	240	254	235	199	234	271
Egypt	30	30	28	27	14	21	29	40	48	65
Nigeria	39	28	17	27	26	19	17	8	8	14
Africa, other	237	243	212	206	200	214	189	151	178	192
Country unknown	14	30	101	79	73	40	49	59	65	68
Engineering	3,483	3,527	3,148	3,061	2,595	2,802	3,090	2,920	3,182	3,543
North America	82	97	85	99	111	118	108	97	116	121
Canada	41	45	44	37	51	50	45	37	34	58
Caribbean	7	8	13	17	13	8	8	9	2	13
Central America	8	7	3	6	5	6	9	4	12	8
Mexico	26	37	25	39	42	54	46	47	68	42
South America	89	118	96	105	99	112	96	92	82	124
Argentina	7	9	15	13	9	12	14	5	10	20
Brazil	46	65	44	51	43	37	37	33	16	37
Chile	8	8	1	2	6	9	7	8	12	9
Colombia	10	7	4	8	11	16	12	18	18	23
South America, other	18	29	32	31	30	38	26	28	26	35
Europe	297	237	248	305	276	297	335	301	313	317
Belgium	12	4	5	3	1	6	8	4	7	6
England, United Kingdom	20	10	12	12	14	11	11	14	12	16
France	24	25	12	23	23	23	24	25	23	26
Germany	37	16	28	29	38	46	48	45	22	36
Europe, other	204	182	191	238	200	211	244	213	249	233

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
East Asia	1,877	1,881	1,558	1,506	1,286	1,423	1,637	1,661	1,820	2,068
China, People's Republic of	782	825	666	702	597	721	882	893	979	1,208
Hong Kong	20	31	13	27	11	12	15	11	15	6
Japan	30	32	37	21	31	23	23	32	35	28
Korea	345	327	315	291	276	285	337	353	399	503
Taiwan	620	580	465	387	306	291	242	214	188	151
Thailand	38	43	41	53	52	60	114	131	169	137
East Asia, other	42	43	21	25	13	31	24	27	35	35
West Asia	966	999	971	838	679	675	741	596	673	752
India	575	623	628	543	381	361	352	282	302	366
Iran	85	68	61	44	42	38	62	31	41	31
Iraq	8	2	5	3	5	2	2	1	0	2
Israel	19	20	14	12	8	6	11	6	12	18
Lebanon	31	22	9	18	9	12	10	13	14	11
Saudi Arabia	25	40	31	18	26	17	29	25	23	38
Turkey	74	74	97	82	100	136	144	151	168	146
West Asia, other	149	150	126	118	108	103	131	87	113	140
Pacific/Australasia	44	38	47	49	24	44	40	39	35	48
Australia	7	6	8	4	8	4	10	1	5	5
Indonesia	29	15	23	29	13	27	23	29	22	36
Pacific/Australasia, other	8	17	16	16	3	13	7	9	8	7
Africa	122	144	111	115	98	112	102	98	107	103
Egypt	48	60	49	65	49	62	46	56	62	59
Nigeria	14	11	8	7	9	4	3	5	5	4
Africa, other	60	73	54	43	40	46	53	37	40	40
Country unknown	6	13	32	44	22	21	31	36	36	10
Permanent visa	3,509	3,009	2,281	2,019	1,653	1,409	1,278	1,167	1,100	999
North America	135	121	107	113	100	92	100	93	83	86
Canada	78	71	57	66	56	51	54	64	45	42
Caribbean	26	27	20	21	20	18	15	15	14	22
Central America	8	3	7	6	12	5	10	6	4	5
Mexico	23	20	23	20	12	18	21	8	20	17
South America	52	65	73	51	50	51	44	53	55	51
Argentina	9	17	20	6	9	12	9	11	11	9
Brazil	11	11	7	12	10	10	12	13	9	12
Chile	9	5	8	7	11	6	0	4	5	7
Colombia	8	10	7	5	5	9	4	8	13	4
South America, other	15	22	31	21	15	14	19	17	17	19
Europe	286	314	342	370	341	340	357	293	297	267
Belgium	7	8	8	3	6	5	6	2	5	2
England, United Kingdom	49	50	39	43	51	36	53	49	33	37
France	15	16	23	25	15	19	23	11	19	10
Germany	53	51	43	43	33	60	39	33	37	32
Europe, other	162	189	229	256	236	220	236	198	203	186
East Asia	2,504	1,980	1,274	1,081	748	567	442	448	398	318
China, People's Republic of	2,190	1,679	985	850	534	383	304	317	260	185
Hong Kong	15	18	15	14	11	8	6	5	10	5
Japan	19	23	24	22	27	35	21	16	31	20
Korea	87	94	81	71	79	59	51	49	43	54
Taiwan	167	137	153	103	78	65	47	40	33	34
Thailand	10	14	4	8	3	4	6	6	6	9
East Asia, other	16	15	12	13	16	13	7	15	15	11
West Asia	385	394	325	261	285	233	212	194	181	160
India	168	203	195	136	135	108	100	81	85	75
Iran	84	74	37	38	46	40	29	23	23	15

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Iraq	5	4	1	3	3	1	2	1	0	0
Israel	21	17	17	17	16	8	5	17	12	12
Lebanon	11	11	6	7	9	6	5	4	4	2
Saudi Arabia	4	11	1	0	3	3	1	1	2	2
Turkey	19	23	22	18	22	27	33	25	26	25
West Asia, other	73	51	46	42	51	40	37	42	29	29
Pacific/Australasia	43	32	30	26	31	29	25	17	18	24
Australia	10	13	9	6	18	11	14	7	5	12
Indonesia	16	3	8	7	5	10	2	4	5	4
Pacific/Australasia, other	17	16	13	13	8	8	9	6	8	8
Africa	93	83	89	83	78	85	82	50	51	70
Egypt	12	11	14	13	9	17	6	12	8	18
Nigeria	32	17	7	15	20	11	7	5	2	8
Africa, other	49	55	68	55	49	57	69	33	41	44
Country unknown	11	20	41	34	20	12	16	19	17	23
Science	2,553	2,216	1,688	1,540	1,250	1,059	979	895	834	758
North America	112	106	93	96	81	79	92	85	69	69
Canada	69	65	50	58	46	44	52	59	36	33
Caribbean	23	22	16	16	15	15	12	13	14	17
Central America	4	3	6	6	10	5	8	6	3	4
Mexico	16	16	21	16	10	15	20	7	16	15
South America	44	56	61	44	43	44	34	45	47	38
Argentina	8	14	15	6	9	11	7	11	10	4
Brazil	9	8	5	10	7	10	8	9	7	7
Chile	8	5	8	7	9	5	0	4	5	6
Colombia	7	9	5	4	4	6	4	6	9	3
South America, other	12	20	28	17	14	12	15	15	16	18
Europe	218	256	271	299	286	272	302	243	245	222
Belgium	6	7	5	3	5	4	4	2	4	1
England, United Kingdom	40	46	35	37	44	32	49	42	26	30
France	12	11	20	19	11	11	18	9	18	10
Germany	45	45	37	39	30	49	30	29	35	30
Europe, other	115	147	174	201	196	176	201	161	162	151
East Asia	1,806	1,454	942	827	556	413	317	319	288	222
China, People's Republic of	1,617	1,288	759	667	425	284	226	232	189	132
Hong Kong	10	9	11	10	6	7	2	4	6	3
Japan	17	21	21	22	26	32	20	12	27	17
Korea	53	57	45	51	46	37	30	38	29	34
Taiwan	91	59	92	64	40	38	29	20	21	21
Thailand	6	11	4	3	1	3	4	3	4	6
East Asia, other	12	9	10	10	12	12	6	10	12	9
West Asia	265	242	199	165	185	157	136	141	117	112
India	113	126	126	93	96	80	73	56	68	58
Iran	55	45	20	19	27	24	15	14	9	8
Iraq	2	4	0	1	0	0	1	1	0	0
Israel	21	17	15	15	14	8	4	17	7	10
Lebanon	8	3	4	2	2	5	2	3	4	1
Saudi Arabia	1	7	1	0	1	2	0	0	1	1
Turkey	12	11	6	14	11	14	20	14	11	19
West Asia, other	53	29	27	21	34	24	21	36	17	15
Pacific/Australasia	34	28	23	19	25	23	19	16	18	20
Australia	10	11	8	6	14	10	10	7	5	11
Indonesia	9	3	4	1	4	6	1	3	5	1

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Pacific/Australasia, other	15	14	11	12	7	7	8	6	8	8
Africa	65	59	65	62	57	62	65	36	37	56
Egypt	3	7	7	4	3	6	3	5	3	11
Nigeria	22	12	6	13	15	9	4	3	2	7
Africa, other	40	40	52	45	39	47	58	28	32	38
Country unknown	9	15	34	28	17	9	14	10	13	19
Engineering	956	793	593	479	403	350	299	272	266	241
North America	23	15	14	17	19	13	8	8	14	17
Canada	9	6	7	8	10	7	2	5	9	9
Caribbean	3	5	4	5	5	3	3	2	0	5
Central America	4	0	1	0	2	0	2	0	1	1
Mexico	7	4	2	4	2	3	1	1	4	2
South America	8	9	12	7	7	7	10	8	8	13
Argentina	1	3	5	0	0	1	2	0	1	5
Brazil	2	3	2	2	3	0	4	4	2	5
Chile	1	0	0	0	2	1	0	0	0	1
Colombia	1	1	2	1	1	3	0	2	4	1
South America, other	3	2	3	4	1	2	4	2	1	1
Europe	68	58	71	71	55	68	55	50	52	45
Belgium	1	1	3	0	1	1	2	0	1	1
England, United Kingdom	9	4	4	6	7	4	4	7	7	7
France	3	5	3	6	4	8	5	2	1	0
Germany	8	6	6	4	3	11	9	4	2	2
Europe, other	47	42	55	55	40	44	35	37	41	35
East Asia	698	526	332	254	192	154	125	129	110	96
China, People's Republic of	573	391	226	183	109	99	78	85	71	53
Hong Kong	5	9	4	4	5	1	4	1	4	2
Japan	2	2	3	0	1	3	1	4	4	3
Korea	34	37	36	20	33	22	21	11	14	20
Taiwan	76	78	61	39	38	27	18	20	12	13
Thailand	4	3	0	5	2	1	2	3	2	3
East Asia, other	4	6	2	3	4	1	1	5	3	2
West Asia	120	152	126	96	100	76	76	53	64	48
India	55	77	69	43	39	28	27	25	17	17
Iran	29	29	17	19	19	16	14	9	14	7
Iraq	3	0	1	2	3	1	1	0	0	0
Israel	0	0	2	2	2	0	1	0	5	2
Lebanon	3	8	2	5	7	1	3	1	0	1
Saudi Arabia	3	4	0	0	2	1	1	1	1	1
Turkey	7	12	16	4	11	13	13	11	15	6
West Asia, other	20	22	19	21	17	16	16	6	12	14
Pacific/Australasia	9	4	7	7	6	6	6	1	0	4
Australia	0	2	1	0	4	1	4	0	0	1
Indonesia	7	0	4	6	1	4	1	1	0	3
Pacific/Australasia, other	2	2	2	1	1	1	1	0	0	0
Africa	28	24	24	21	21	23	17	14	14	14
Egypt	9	4	7	9	6	11	3	7	5	7
Nigeria	10	5	1	2	5	2	3	2	0	1
Africa, other	9	15	16	10	10	10	11	5	9	6
Country unknown	2	5	7	6	3	3	2	9	4	4
Temporary visa	7,007	7,836	7,509	7,776	7,238	7,660	7,964	7,690	8,407	9,122
North America	373	417	391	463	457	522	499	482	554	592

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Canada	196	207	206	222	233	243	253	250	280	339
Caribbean	35	24	29	44	34	36	25	29	30	53
Central America	35	44	31	38	30	52	35	29	45	37
Mexico	107	142	125	159	160	191	186	174	199	163
South America	309	397	341	385	394	396	372	360	404	428
Argentina	41	51	49	65	47	66	60	55	64	80
Brazil	126	196	144	152	154	121	131	113	98	124
Chile	29	32	23	19	22	36	25	36	61	36
Colombia	37	32	33	27	47	47	55	47	70	71
South America, other	76	86	92	122	124	126	101	109	111	117
Europe	971	955	972	1,162	1,145	1,167	1,294	1,259	1,309	1,381
Belgium	25	17	10	14	15	16	18	14	18	15
England, United Kingdom	83	67	53	81	91	64	85	85	77	73
France	67	53	51	52	64	64	62	81	68	81
Germany	155	119	138	167	150	169	181	164	152	152
Europe, other	641	699	720	848	825	854	948	915	994	1,060
East Asia	3,015	3,699	3,536	3,622	3,415	3,732	3,910	3,839	4,155	4,592
China, People's Republic of	591	1,343	1,410	1,660	1,699	1,995	2,114	2,084	2,241	2,684
Hong Kong	75	92	71	77	43	38	40	37	22	26
Japan	136	146	131	134	131	166	129	142	171	166
Korea	922	891	820	752	681	694	816	806	918	999
Taiwan	1,082	1,025	940	810	668	611	494	429	409	360
Thailand	104	105	93	115	131	149	230	258	305	262
East Asia, other	105	97	71	74	62	79	87	83	89	95
West Asia	1,807	1,778	1,719	1,583	1,362	1,362	1,435	1,290	1,484	1,621
India	1,044	1,068	1,086	1,006	780	726	715	598	686	782
Iran	89	76	76	55	46	40	71	34	45	44
Iraq	9	5	6	2	2	1	5	2	0	2
Israel	65	67	46	41	31	38	44	33	54	63
Lebanon	45	45	24	31	16	22	23	27	28	30
Saudi Arabia	67	69	69	46	55	53	51	70	63	91
Turkey	148	128	148	154	170	248	276	317	348	319
West Asia, other	340	320	264	248	262	234	250	209	260	290
Pacific/Australasia	188	205	179	180	130	151	135	137	127	149
Australia	51	30	39	40	31	31	30	25	23	33
Indonesia	67	67	59	58	40	53	46	62	42	64
Pacific/Australasia, other	70	108	81	82	59	67	59	50	62	52
Africa	335	362	279	292	260	281	255	247	290	304
Egypt	66	79	63	79	54	66	69	84	102	106
Nigeria	21	22	18	19	15	12	13	8	11	10
Africa, other	248	261	198	194	191	203	173	155	177	188
Country unknown	9	23	92	89	75	49	64	76	84	55
Science	4,480	5,102	4,954	5,194	5,046	5,208	5,173	5,042	5,491	5,820
North America	314	335	320	381	365	417	399	393	452	488
Canada	164	168	169	193	192	200	210	218	255	290
Caribbean	31	21	20	32	26	31	20	22	28	45
Central America	31	37	29	32	27	46	28	25	34	30
Mexico	88	109	102	124	120	140	141	128	135	123
South America	228	288	257	287	302	291	286	276	330	317
Argentina	35	45	39	52	38	55	48	50	55	65
Brazil	82	134	102	103	114	84	98	84	84	92
Chile	22	24	22	17	18	28	18	28	49	28
Colombia	28	26	31	20	37	34	43	31	56	49

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
South America, other	61	59	63	95	95	90	79	83	86	83
Europe	742	776	795	928	924	938	1,014	1,008	1,048	1,109
Belgium	14	14	8	11	15	11	12	10	12	10
England, United Kingdom	72	61	45	75	84	57	78	78	72	64
France	46	33	42	35	45	49	43	58	46	55
Germany	126	109	116	142	115	134	142	123	132	118
Europe, other	484	559	584	665	665	687	739	739	786	862
East Asia	1,836	2,344	2,310	2,370	2,321	2,463	2,398	2,307	2,445	2,620
China, People's Republic of	382	909	970	1,141	1,211	1,373	1,310	1,276	1,333	1,529
Hong Kong	60	70	62	54	37	27	29	27	11	22
Japan	108	116	97	113	101	146	107	114	140	141
Korea	611	601	541	481	438	431	500	464	533	516
Taiwan	538	523	536	462	400	347	270	235	233	222
Thailand	70	65	52	67	81	90	118	130	138	128
East Asia, other	67	60	52	52	53	49	64	61	57	62
West Asia	961	931	874	841	783	763	770	747	875	917
India	524	522	527	506	438	393	390	341	401	433
Iran	33	37	32	30	23	18	23	12	18	20
Iraq	4	3	2	1	0	0	4	1	0	0
Israel	46	47	34	31	25	32	34	27	47	47
Lebanon	17	31	17	18	14	11	16	15	14	20
Saudi Arabia	45	33	38	28	31	37	23	46	41	54
Turkey	81	66	67	76	81	125	145	177	195	179
West Asia, other	211	192	157	151	171	147	135	128	159	164
Pacific/Australasia	153	171	139	138	112	113	101	99	92	105
Australia	44	26	32	36	27	28	24	24	18	29
Indonesia	45	52	40	35	28	30	24	34	20	31
Pacific/Australasia, other	64	93	67	67	57	55	53	41	54	45
Africa	241	242	192	198	183	192	170	163	197	215
Egypt	27	23	21	23	11	15	26	35	45	54
Nigeria	17	16	11	14	11	10	13	5	6	7
Africa, other	197	203	160	161	161	167	131	123	146	154
Country unknown	5	15	67	51	56	31	35	49	52	49
Engineering	2,527	2,734	2,555	2,582	2,192	2,452	2,791	2,648	2,916	3,302
North America	59	82	71	82	92	105	100	89	102	104
Canada	32	39	37	29	41	43	43	32	25	49
Caribbean	4	3	9	12	8	5	5	7	2	8
Central America	4	7	2	6	3	6	7	4	11	7
Mexico	19	33	23	35	40	51	45	46	64	40
South America	81	109	84	98	92	105	86	84	74	111
Argentina	6	6	10	13	9	11	12	5	9	15
Brazil	44	62	42	49	40	37	33	29	14	32
Chile	7	8	1	2	4	8	7	8	12	8
Colombia	9	6	2	7	10	13	12	16	14	22
South America, other	15	27	29	27	29	36	22	26	25	34
Europe	229	179	177	234	221	229	280	251	261	272
Belgium	11	3	2	3	0	5	6	4	6	5
England, United Kingdom	11	6	8	6	7	7	7	7	5	9
France	21	20	9	17	19	15	19	23	22	26
Germany	29	10	22	25	35	35	39	41	20	34
Europe, other	157	140	136	183	160	167	209	176	208	198
East Asia	1,179	1,355	1,226	1,252	1,094	1,269	1,512	1,532	1,710	1,972
China, People's Republic of	209	434	440	519	488	622	804	808	908	1,155

TABLE 11. Non-U.S. citizens awarded doctorates in science and engineering, by visa type and country of citizenship: 1995–2004

Visa and country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Hong Kong	15	22	9	23	6	11	11	10	11	4
Japan	28	30	34	21	30	20	22	28	31	25
Korea	311	290	279	271	243	263	316	342	385	483
Taiwan	544	502	404	348	268	264	224	194	176	138
Thailand	34	40	41	48	50	59	112	128	167	134
East Asia, other	38	37	19	22	9	30	23	22	32	33
West Asia	846	847	845	742	579	599	665	543	609	704
India	520	546	559	500	342	333	325	257	285	349
Iran	56	39	44	25	23	22	48	22	27	24
Iraq	5	2	4	1	2	1	1	1	0	2
Israel	19	20	12	10	6	6	10	6	7	16
Lebanon	28	14	7	13	2	11	7	12	14	10
Saudi Arabia	22	36	31	18	24	16	28	24	22	37
Turkey	67	62	81	78	89	123	131	140	153	140
West Asia, other	129	128	107	97	91	87	115	81	101	126
Pacific/Australasia	35	34	40	42	18	38	34	38	35	44
Australia	7	4	7	4	4	3	6	1	5	4
Indonesia	22	15	19	23	12	23	22	28	22	33
Pacific/Australasia, other	6	15	14	15	2	12	6	9	8	7
Africa	94	120	87	94	77	89	85	84	93	89
Egypt	39	56	42	56	43	51	43	49	57	52
Nigeria	4	6	7	5	4	2	0	3	5	3
Africa, other	51	58	38	33	30	36	42	32	31	34
Country unknown	4	8	25	38	19	18	29	27	32	6

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

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																						Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other	Psychology	Social sciences	Total	Chemical	Civil	Electrical	Mechanical	Other												
All institutions	na	42,155	26,275	6,983	1,046	5,937	949	672	1,075	3,353	1,987	1,351	15	3,336	4,131	5,776	723	675	1,649	853	1,876	15,880											
Alabama	27	484	285	97	21	76	11	6	11	36	17	19	0	36	28	60	2	5	14	8	31	199											
AL A&M U.	296	5	5	2	2	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0											
Auburn U. main campus	94	155	97	27	19	8	4	0	6	12	10	2	0	16	16	16	1	2	5	2	6	58											
U.S. Sports Academy	354	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11											
U. AL, The	103	159	77	9	0	9	4	2	3	15	7	8	0	18	10	16	1	2	5	2	6	82											
U. AL Birmingham, The	108	111	72	55	0	55	2	0	2	0	0	0	0	2	2	9	0	0	0	0	9	39											
U. AL Huntsville, The	180	31	31	2	0	2	1	3	0	6	0	6	0	0	0	19	0	1	4	4	10	0											
U. South AL	319	12	3	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9											
Alaska	52	20	18	6	5	1	0	5	0	2	0	1	1	0	2	3	0	1	1	0	1	2											
U. AK Fairbanks	226	20	18	6	5	1	0	5	0	2	0	1	1	0	2	3	0	1	1	0	1	2											
Arizona	17	793	485	105	16	89	17	26	22	69	37	32	0	50	87	109	9	15	32	8	45	308											
AZ State U. main campus	37	357	206	30	2	28	15	6	12	9	6	3	0	30	32	72	5	8	27	4	28	151											
Northern AZ U.	226	35	18	11	4	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	17											
U. AZ	24	401	261	64	10	54	2	20	10	60	31	29	0	20	48	37	4	7	5	4	17	140											
Arkansas	41	158	93	49	28	21	1	2	3	10	4	5	1	8	1	19	3	3	4	2	7	65											
AR State U. main campus	305	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
U. AR for Medical Sciences	263	12	10	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2											
U. AR Little Rock	328	32	2	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	30											
U. AR main campus	103	110	77	35	24	11	1	2	3	8	3	4	1	8	1	19	3	3	4	2	7	33											
California	1	5,008	3,499	780	55	725	156	103	139	455	265	186	4	492	594	780	63	93	290	111	223	1,509											
Azusa Pacific U.	354	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3											
Biola U.	289	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	10											
CA Institute of Integral Studies	283	28	7	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	21											
CA Institute of Technology	52	166	164	19	1	18	3	6	15	66	26	40	0	1	0	54	9	2	16	10	17	2											
CA School of Professional Psychologists Fresno	188	29	29	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0											
CA School of Professional Psychology Alameda	152	45	44	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	1											
CA School of Professional Psychology Los Angeles	161	39	39	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0											
CA School of Professional Psychology San Diego	132	60	52	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	8											
Claremont Graduate U.	154	100	43	1	0	1	6	0	4	0	0	0	0	13	19	0	0	0	0	0	0	57											
Claremont School of Theology	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
Fielding Institute, The	136	82	50	12	0	12	0	0	0	0	0	0	0	35	3	0	0	0	0	0	0	32											
Fuller Theological Seminary CA	211	63	22	0	0	0	0	0	0	0	0	0	0	21	1	0	0	0	0	0	0	41											
Graduate Theological Union	342	24	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	23											

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																						Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other	Psychology	Social sciences	Total	Chemical	Civil	Electrical	Mechanical	Other												
La Sierra U.	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9											
Loma Linda U.	207	34	23	10	0	10	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	11											
Naval Postgraduate School	270	9	9	0	0	0	4	4	0	0	0	0	0	0	1	0	0	0	1	0	0	0											
Pacific Graduate School of Psychology	161	40	39	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	1											
Pepperdine U. Malibu	354	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43											
RAND Graduate School of Policy Studies	255	11	11	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0											
San Diego State U.	279	22	8	2	0	2	0	1	0	0	0	0	3	1	1	0	1	0	0	0	0	14											
Santa Clara U.	289	6	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0											
Saybrook Institute	201	30	24	0	0	0	0	0	0	0	0	0	22	2	0	0	0	0	0	0	0	6											
Scripps Research Institute, The	178	32	32	16	0	16	0	0	0	15	15	0	0	0	1	0	0	0	1	0	0	0											
Stanford U.	3	591	469	71	1	70	19	23	23	57	28	29	0	13	64	199	14	23	72	28	62	122											
U. CA, Berkeley	1	769	537	108	20	88	19	14	30	88	58	30	0	21	119	138	10	28	37	30	33	232											
U. CA, Davis	17	375	333	147	20	127	12	4	14	32	16	16	0	16	44	64	8	14	15	4	23	42											
U. CA, Irvine	65	187	136	22	1	21	14	4	5	26	19	7	0	6	33	26	2	5	10	4	5	51											
U. CA, Los Angeles	5	664	432	132	2	130	26	3	20	48	30	18	0	18	91	94	4	7	43	22	18	232											
U. CA, Riverside	90	141	103	34	4	30	2	5	5	16	10	6	0	5	31	5	0	1	4	0	0	38											
U. CA, San Diego	22	326	281	74	0	74	14	11	11	43	24	16	3	28	42	58	3	4	24	5	22	45											
U. CA, San Francisco	110	95	70	47	0	47	1	0	0	5	4	1	0	0	10	7	2	0	0	0	5	25											
U. CA, Santa Barbara	44	253	179	20	1	19	7	10	8	27	15	12	0	20	43	44	8	0	17	4	15	74											
U. CA, Santa Cruz	98	104	89	24	5	19	5	10	1	11	5	5	1	7	22	9	0	0	9	0	0	15											
U. La Verne	342	35	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	34											
U. San Diego	354	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23											
U. San Francisco	354	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45											
U. Southern CA	25	477	247	38	0	38	24	8	3	20	14	6	0	26	55	73	3	8	36	3	23	230											
U. of the Pacific	279	22	8	3	0	3	0	0	0	1	1	0	0	4	0	0	0	0	0	0	0	14											
Wright Institute all campuses	296	6	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1											
Colorado	19	713	466	116	20	96	12	36	24	49	23	26	0	40	69	120	14	30	29	14	33	247											
CO School of Mines	152	44	44	0	0	0	0	9	2	3	2	1	0	0	2	28	6	0	1	4	17	0											
CO State U.	70	160	129	55	20	35	2	7	7	13	6	7	0	14	8	23	2	10	7	3	1	31											
CO Technical U. Colorado Springs	305	8	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
U. CO Boulder	36	279	207	25	0	25	6	20	11	30	13	17	0	10	41	64	6	20	16	7	15	72											
U. CO Colorado Springs	305	4	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0											
U. CO Denver	270	33	9	0	0	0	0	0	3	0	0	0	0	6	0	0	0	0	0	0	0	24											
U. CO Health Sciences Ctr.	174	43	34	34	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9											
U. Denver	196	77	25	1	0	1	0	0	0	1	0	1	0	12	10	1	0	0	1	0	0	52											
U. Northern CO	263	65	10	1	0	1	0	0	1	2	2	0	0	4	2	0	0	0	0	0	0	55											
Connecticut	22	613	388	135	7	128	11	4	18	55	39	16	0	41	75	49	10	2	16	6	15	225											

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																					Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences				Social sciences	Total	Chemical	Civil	Electrical	Mechanical	Other												
										Total	Chemistry	Physics and astronomy	Other																			
U. CT	47	257	170	56	4	52	6	0	6	19	17	2	0	32	23	28	6	2	7	3	10	87										
U. Hartford	354	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15										
U. New Haven	354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1										
Wesleyan U.	263	13	10	5	0	5	0	0	0	5	3	2	0	0	0	0	0	0	0	0	0	3										
Yale U.	35	327	208	74	3	71	5	4	12	31	19	12	0	9	52	21	4	0	9	3	5	119										
Delaware	38	199	141	16	8	8	5	9	5	20	15	3	2	3	34	49	17	7	5	2	18	58										
U. DE	59	178	141	16	8	8	5	9	5	20	15	3	2	3	34	49	17	7	5	2	18	37										
Wilmington C. (New Castle, DE)	354	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21										
District of Columbia	26	515	298	51	0	51	10	1	6	21	16	5	0	55	107	47	0	1	11	2	33	217										
American U.	139	59	49	0	0	0	0	0	1	6	5	1	0	8	34	0	0	0	0	0	0	10										
Catholic U. America, The	193	75	26	1	0	1	0	0	0	4	2	2	0	10	7	4	0	0	3	0	1	49										
Gallaudet U.	305	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4										
George Washington U.	75	214	117	16	0	16	10	1	4	5	3	2	0	13	28	40	0	1	7	1	31	97										
Georgetown U.	151	71	45	21	0	21	0	0	0	2	2	0	0	1	21	0	0	0	0	0	0	26										
Howard U.	122	88	57	13	0	13	0	0	1	4	4	0	0	19	17	3	0	0	1	1	1	31										
Florida	9	2,378	991	206	47	159	75	30	21	112	66	45	1	219	105	223	13	39	55	23	93	1,387										
Barry U.	283	34	7	0	0	0	1	0	0	0	0	0	0	6	0	0	0	0	0	0	0	27										
FL A&M U.	296	23	5	2	0	2	0	0	0	1	1	0	0	0	0	2	0	0	0	2	0	18										
FL Atlantic U.	215	51	21	4	0	4	1	0	0	3	0	3	0	1	2	10	0	1	5	2	2	30										
FL Institute of Technology	196	29	25	6	1	5	5	1	2	0	0	0	0	2	0	9	0	1	5	0	3	4										
FL International U.	165	78	38	9	0	9	3	1	0	3	3	0	0	4	8	10	0	7	2	1	0	40										
FL State U.	77	268	112	10	0	10	6	12	7	23	10	12	1	23	22	9	0	2	1	3	3	156										
Lynn U.	354	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14										
Nova Southeastern U.	77	645	112	0	0	0	35	0	0	0	0	0	0	67	8	2	0	0	2	0	0	533										
U. Sarasota	128	269	54	0	0	0	7	0	0	0	0	0	0	46	1	0	0	0	0	0	0	215										
U. Central FL	106	137	75	1	0	1	6	0	4	10	0	10	0	9	7	38	0	7	14	6	11	62										
U. FL	10	522	380	129	46	83	7	3	5	57	38	19	0	24	41	114	7	11	18	9	69	142										
U. Miami	109	113	71	29	0	29	0	11	2	5	4	1	0	8	9	7	0	2	3	0	2	42										
U. South FL	97	170	90	16	0	16	4	2	1	10	10	0	0	29	6	22	6	8	5	0	3	80										
U. West FL	342	25	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	24										
Georgia	12	1,076	655	170	37	133	16	14	21	60	50	10	0	69	70	235	16	18	102	32	67	421										
Clark Atlanta U.	319	30	3	1	0	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	27										
Emory U.	95	162	92	40	0	40	0	0	6	13	13	0	0	11	22	0	0	0	0	0	0	70										
GA Institute of Technology main campus	20	311	303	8	0	8	13	9	8	25	19	6	0	7	4	229	16	18	102	32	61	8										
GA Southern U.	354	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23										
GA State U.	139	112	49	15	0	15	1	0	0	5	3	2	0	19	9	0	0	0	0	0	0	63										
Institute of Paper Science and Technology	296	5	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	0										

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										Total	Chemistry	Physics and astronomy	Other																		
Medical C. GA	283	8	7	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1										
Morehouse School of Medicine	319	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
U. GA	38	404	193	96	37	59	2	5	7	15	13	2	0	32	35	1	0	0	0	0	1	211									
Valdosta State U.	354	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18									
Hawaii	40	128	99	26	3	23	2	7	1	7	2	5	0	13	39	4	0	1	2	0	1	29									
U. HI Manoa	93	128	99	26	3	23	2	7	1	7	2	5	0	13	39	4	0	1	2	0	1	29									
Idaho	45	116	56	22	12	10	4	2	2	6	5	1	0	3	5	12	0	2	2	2	6	60									
Boise State U.	354	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3									
ID State U.	242	33	14	3	0	3	0	0	1	0	0	0	0	3	4	3	0	0	0	0	3	19									
U. ID	157	80	42	19	12	7	4	2	1	6	5	1	0	0	1	9	0	2	2	2	3	38									
Illinois	6	1,970	1,199	280	21	259	40	17	72	151	97	54	0	121	237	281	39	43	66	48	85	771									
Benedictine U.	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4									
Chicago Theological Seminary	354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1									
DePaul U.	270	13	9	0	0	0	2	0	0	0	0	0	0	7	0	0	0	0	0	0	0	4									
Garrett-Evangelical Theological Seminary	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2									
IL Institute of Technology	116	65	61	2	0	2	4	0	1	5	3	2	0	20	1	28	14	8	3	1	2	4									
IL State U.	342	43	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	42									
Institute for Clinical Social Work	328	7	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	5									
Loyola U. Chicago	142	138	48	25	0	25	0	0	0	1	1	0	0	13	9	0	0	0	0	0	0	90									
Lutheran School of Theology Chicago	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4									
National-Louis U.	354	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18									
Northern IL U.	193	90	26	3	0	3	0	1	0	7	7	0	0	8	7	0	0	0	0	0	0	64									
Northwestern U.	30	308	224	39	0	39	2	2	14	22	21	1	0	11	41	93	10	8	20	15	40	84									
Roosevelt U.	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9									
Rosalind Franklin U. of Medicine and Science	251	13	12	4	0	4	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	1									
Rush U.	279	16	8	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8									
Southern IL U. Carbondale	125	124	55	16	1	15	0	0	6	1	0	1	0	12	14	6	0	0	3	0	3	69									
U. Chicago	30	331	224	49	0	49	2	7	26	34	9	25	0	10	96	0	0	0	0	0	0	107									
U. IL Chicago	68	209	132	46	0	46	6	1	8	23	22	1	0	7	16	25	3	2	2	9	9	77									
U. IL Springfield	342	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0									
U. IL Urbana-Champaign	8	574	396	88	20	68	24	6	17	58	34	24	0	22	52	129	12	25	38	23	31	178									
Indiana	15	1,071	630	131	29	102	12	9	25	104	78	26	0	73	112	164	17	27	53	33	34	441									
Ball State U.	226	57	18	1	1	0	0	0	0	0	0	0	0	13	4	0	0	0	0	0	0	39									
IN State U.	251	27	12	2	0	2	0	1	0	0	0	0	0	7	2	0	0	0	0	0	0	15									
IN U. Bloomington	50	391	165	47	2	45	6	3	5	31	19	12	0	15	58	0	0	0	0	0	0	226									
Purdue U. main campus	17	448	333	69	26	43	4	4	12	59	52	7	0	26	26	133	10	27	43	24	29	115									

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					Agricultural	Biological				Total	Chemistry	Physics and astronomy	Other		Psychology	Total	Chemical	Civil	Electrical		Mechanical	Other
U. of Notre Dame	91	148	102	12	0	12	2	1	8	14	7	7	0	12	22	31	7	0	10	9	5	46
Iowa	24	555	340	93	20	73	5	5	30	46	33	13	0	31	34	96	8	11	24	16	37	215
Drake U.	354	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
IA State U.	42	228	183	55	20	35	4	2	13	30	19	11	0	11	10	58	3	3	18	10	24	45
Maharishi U. of Management	328	6	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
St. Ambrose U.	354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
U. IA	54	300	153	36	0	36	1	3	17	16	14	2	0	20	24	36	5	8	5	6	12	147
U. Northern IA	328	10	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	1	8
Kansas	29	432	260	81	31	50	3	3	9	41	33	8	0	53	31	39	7	9	7	6	10	172
KS State U.	83	148	109	51	31	20	3	1	5	14	7	7	0	8	9	18	5	4	3	2	4	39
U. KS Main Campus	71	256	128	29	0	29	0	2	3	27	26	1	0	32	22	13	2	5	2	3	1	128
Wichita State U.	207	28	23	1	0	1	0	0	1	0	0	0	0	13	0	8	0	0	2	1	5	5
Kentucky	33	397	209	73	15	58	5	0	10	24	19	5	0	34	33	30	7	1	5	7	10	188
Asbury Theological Seminary	328	8	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6
Southern Baptist Theological Seminary	354	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Spalding U.	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
U. KY	55	234	151	52	15	37	2	0	10	19	14	5	0	20	28	20	3	1	3	7	6	83
U. Louisville	123	99	56	21	0	21	3	0	0	5	5	0	0	14	3	10	4	0	2	0	4	43
Louisiana	25	582	313	107	26	81	13	8	9	44	33	11	0	35	33	64	8	18	7	3	28	269
Grambling State U.	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LA State U. and A&M C.	60	240	138	50	25	25	6	5	4	20	12	8	0	17	14	22	5	9	1	2	5	102
LA State U. Health Sciences Ctr.	238	27	15	15	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
LA State U. Shreveport	255	11	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	222	33	19	0	0	0	0	0	2	1	1	0	0	4	0	12	0	1	1	0	10	14
New Orleans Baptist Theological Seminary	354	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Southern U. and A&M C. Baton Rouge	354	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Tulane U.	107	127	74	25	1	24	1	1	0	10	8	2	0	5	13	19	3	3	1	1	11	53
U. LA Lafayette	232	29	17	6	0	6	4	0	3	0	0	0	0	1	0	3	0	0	3	0	0	12
U. LA Monroe	305	12	4	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	8
U. New Orleans	172	80	35	0	0	0	2	1	0	13	12	1	0	5	6	8	0	5	1	0	2	45
Maine	51	42	30	9	4	5	1	3	0	6	2	4	0	7	0	4	1	0	0	1	2	12
U. ME	183	42	30	9	4	5	1	3	0	6	2	4	0	7	0	4	1	0	0	1	2	12
Maryland	11	1,004	677	208	16	192	29	15	23	84	35	49	0	49	122	147	13	11	51	38	34	327
Johns Hopkins U., The	28	355	236	113	0	113	5	2	8	24	12	12	0	7	40	37	5	4	10	6	12	119
Loyola C.	305	5	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1
Morgan State U.	296	26	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	2	1	1	21

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																						Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences				Social sciences	Total	Engineering																	
										Total	Chemistry	Physics and astronomy	Other			Psychology	Chemical	Civil	Electrical	Mechanical	Other												
Uniformed Services U. of the Health Sciences	270	12	9	6	0	6	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3											
U. MD Baltimore	167	60	37	33	0	33	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	23											
U. MD Baltimore County	120	65	59	8	0	8	7	0	3	8	7	1	0	11	10	12	2	0	4	6	0	6											
U. MD College Park	19	481	327	48	16	32	17	13	12	48	12	36	0	24	72	93	6	6	35	25	21	154											
Massachusetts	4	2,116	1,481	379	11	368	58	27	65	228	110	116	2	115	296	313	58	12	82	49	112	635											
American International C.	328	3	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1											
Boston C.	157	123	42	4	0	4	0	0	0	18	13	5	0	7	13	0	0	0	0	0	0	81											
Boston U.	46	270	172	55	1	54	3	2	8	22	5	17	0	18	35	29	0	0	11	4	14	98											
Brandeis U.	136	80	50	18	0	18	3	0	4	5	4	1	0	2	18	0	0	0	0	0	0	30											
Clark U.	215	27	21	4	0	4	0	0	0	3	1	2	0	4	10	0	0	0	0	0	0	6											
Harvard U.	12	579	361	140	0	140	5	6	16	54	23	31	0	28	98	14	0	1	3	0	10	218											
MA C. of Pharmacy and Health Sciences	328	5	2	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	3											
MA Institute of Technology	4	467	433	49	0	49	26	18	27	75	32	41	2	2	53	183	27	5	41	29	81	34											
New England Conservatory of Music	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
Northeastern U.	123	63	56	7	0	7	2	0	6	9	5	4	0	3	12	17	2	1	11	1	2	7											
Simmons C.	354	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3											
Smith C.	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9											
Springfield C. (Springfield, MA)	354	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5											
Suffolk U.	296	5	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0											
Tufts U.	99	97	88	44	0	44	2	0	2	4	2	2	0	13	17	6	2	1	1	2	0	9											
U. MA Amherst	49	266	166	30	9	21	12	1	2	26	17	9	0	26	33	36	14	3	11	7	1	100											
U. MA Boston	238	27	15	3	1	2	0	0	0	0	0	0	0	5	7	0	0	0	0	0	0	12											
U. MA Dartmouth	328	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0											
U. MA Lowell	196	40	25	1	0	1	4	0	0	9	5	4	0	0	11	6	1	2	1	1	1	15											
U. MA Worcester	201	24	24	24	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Worcester Polytechnic Institute	232	17	17	0	0	0	1	0	0	1	1	0	0	0	15	7	0	0	5	3	0	0											
Michigan	7	1,494	1,012	248	52	196	23	11	42	123	71	52	0	117	175	273	29	20	73	59	92	482											
Andrews U.	279	33	8	0	0	0	0	0	0	0	0	0	0	6	1	1	0	0	0	0	1	25											
Calvin C.	354	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3											
Central MI U.	263	14	10	0	0	0	0	0	2	0	0	0	0	8	0	0	0	0	0	0	0	4											
Eastern MI U.	354	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12											
MI State U.	21	422	286	93	40	53	6	2	9	33	19	14	0	31	68	44	6	8	11	8	11	136											
MI Technological U.	172	42	35	9	3	6	1	1	2	5	1	4	0	0	17	3	4	1	7	2	7												
Oakland U.	226	28	18	4	0	4	1	0	1	1	1	0	0	0	11	0	0	1	0	10	10												
U. Detroit Mercy	255	11	11	0	0	0	0	0	0	0	0	0	0	10	0	1	0	0	0	1	0	0											
U. MI Ann Arbor	2	658	474	103	8	95	11	5	19	64	38	26	0	33	69	170	14	7	56	36	57	184											
Wayne State U.	72	196	121	36	0	36	3	0	4	16	12	4	0	21	14	27	6	1	4	6	10	75											

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	S&E rank	All fields	All S&E	Total	Agricultural and biological sciences		Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences				Social sciences	Engineering					Non-S&E		
					Agricultural	Biological				Total	Chemistry	Physics and astronomy	Other		Psychology	Total	Chemical	Civil	Electrical		Mechanical	Other
Western MI U.	139	75	49	3	1	2	1	3	5	4	0	4	0	8	23	2	0	0	0	1	1	26
Minnesota	21	755	419	106	23	83	18	11	10	48	31	17	0	75	69	82	12	7	20	17	26	336
Hamline U.	342	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
Luther Northwestern Theological Seminary	342	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	7
Mayo School of Health-Related Sciences	201	24	24	22	0	22	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0
St. Mary's U. MN	354	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
U. MN Twin Cities	15	565	345	83	23	60	18	11	9	48	31	17	0	35	60	81	12	7	20	17	25	220
U. of St. Thomas (St. Paul, MN)	342	27	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	26
Walden U.	146	108	47	1	0	1	0	0	0	0	0	0	0	39	7	0	0	0	0	0	0	61
Mississippi	35	357	165	53	24	29	4	4	3	27	22	5	0	31	23	20	3	3	8	2	4	192
Delta State U.	354	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jackson State U.	222	41	19	4	4	0	0	0	0	0	0	0	0	9	6	0	0	0	0	0	0	22
MS State U.	149	85	46	24	18	6	2	0	1	1	1	0	0	1	7	10	0	0	5	2	3	39
U. MS main campus	183	72	30	2	0	2	1	1	1	11	8	3	0	5	3	6	0	3	3	0	0	42
U. Southern MS	121	139	58	12	2	10	1	3	1	14	12	2	0	16	7	4	3	0	0	0	1	81
U. MS Medical Ctr.	251	14	12	11	0	11	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Missouri	20	726	438	139	16	123	12	11	13	62	43	19	0	69	58	74	2	14	12	11	35	288
Concordia Seminary	354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
St. Louis U. main campus	132	123	52	19	0	19	0	3	0	0	0	0	0	21	8	1	0	1	0	0	0	71
U. MO-Columbia	66	258	135	42	16	26	5	3	7	16	9	7	0	25	23	14	1	2	1	2	8	123
U. MO-Kansas City	183	62	30	6	0	6	4	0	0	4	4	0	0	10	5	1	0	1	0	0	0	32
U. MO-Rolla	116	61	61	0	0	0	0	4	1	16	11	5	0	0	0	40	0	8	8	7	17	0
U. MO-St. Louis	207	39	23	8	0	8	0	0	0	5	5	0	0	6	4	0	0	0	0	0	0	16
Washington U. St. Louis	63	182	137	64	0	64	3	1	5	21	14	7	0	7	18	18	1	2	3	2	10	45
Montana	44	79	59	33	13	20	0	2	2	14	9	5	0	6	0	2	0	1	0	0	1	20
MT State U. Bozeman	178	41	32	17	5	12	0	1	1	12	7	5	0	0	0	1	0	1	0	0	0	9
U. MT, The	191	38	27	16	8	8	0	1	1	2	2	0	0	6	0	1	0	0	0	0	1	11
Nebraska	37	287	150	66	26	40	2	3	2	20	10	0	0	20	17	20	2	4	2	4	8	137
Creighton U.	270	9	9	7	0	7	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0
U. NE Lincoln	74	236	118	42	26	16	2	3	2	19	9	10	0	20	11	19	2	4	2	4	7	118
U. NE Omaha	289	15	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	9
U. NE Medical Ctr.	232	27	17	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Nevada	43	125	76	16	0	16	1	10	0	6	4	2	0	21	9	13	0	4	2	5	2	49
U. NV, Las Vegas	242	48	14	3	0	3	0	2	0	0	0	0	0	2	7	0	1	1	5	0	34	
U. NV, Reno	115	77	62	13	0	13	1	8	0	6	4	2	0	21	7	6	0	3	1	0	2	15
New Hampshire	42	102	91	44	2	42	8	3	4	10	5	5	0	9	2	11	2	1	2	2	4	11

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																						Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural and biological sciences		Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Physical sciences				Social sciences	Total	Engineering																
					Agricultural	Biological					Chemistry	Physics and astronomy	Other	Psychology			Chemical	Civil	Electrical	Mechanical	Other												
Dartmouth C.	125	56	55	33	0	33	7	0	3	4	2	2	0	4	0	4	1	0	0	0	3	1											
U. NH	170	46	36	11	2	9	1	3	1	6	3	3	0	5	2	7	1	1	2	2	1	10											
New Jersey	14	943	641	143	22	121	39	15	40	98	42	56	0	62	89	155	23	12	63	15	42	302											
Drew U.	342	31	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	30											
Fairleigh Dickinson U. all campuses	215	21	21	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0											
Montclair State U.	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
NJ Institute of Technology	113	68	68	4	3	1	13	0	4	6	1	5	0	0	0	41	3	3	21	5	9	0											
Princeton Theological Seminary	354	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23											
Princeton U.	34	281	211	29	0	29	13	11	16	36	12	24	0	6	50	50	13	2	26	4	5	70											
Rutgers, The State U. NJ New Brunswick Campus	30	347	224	61	19	42	12	3	19	40	22	18	0	16	21	52	7	6	11	4	24	123											
Rutgers, The State U. NJ Newark Campus	170	56	36	11	0	11	0	0	1	3	2	1	0	3	18	0	0	0	0	0	0	20											
Seton Hall U.	222	50	19	0	0	0	0	0	0	4	4	0	0	15	0	0	0	0	0	0	0	31											
Stevens Institute of Technology	211	23	22	0	0	0	1	1	0	8	0	8	0	0	0	12	0	1	5	2	4	1											
U. of Medicine and Dentistry NJ	161	39	39	38	0	38	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0											
New Mexico	34	288	191	40	7	33	5	4	7	28	11	17	0	28	35	44	11	3	11	6	13	97											
NM Institute of Mining and Technology	263	10	10	1	1	0	0	2	0	2	1	1	0	0	0	5	4	0	0	0	1	0											
NM State U. Main Campus	149	76	46	15	6	9	1	0	2	8	3	5	0	11	0	9	3	0	1	0	5	30											
U. NM all campuses	66	202	135	24	0	24	4	2	5	18	7	11	0	17	35	30	4	3	10	6	7	67											
New York	2	3,533	2,326	605	62	543	85	34	110	283	128	154	1	381	484	344	45	31	113	56	99	1,207											
Adelphi U.	196	27	25	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	2											
Albany Medical C.	255	11	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfred U. main campus	296	5	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	0	0											
Clarkson U.	242	14	14	0	0	0	1	0	0	4	4	0	0	0	9	1	5	0	2	1	0	0											
Columbia U. in the City of NY	26	408	243	60	0	60	9	3	16	38	16	22	0	5	84	28	6	5	10	2	5	165											
Cornell U. Endowed Colleges	13	413	351	109	45	64	8	5	16	50	20	30	0	14	63	86	11	8	32	9	26	62											
Cornell U. Medical Campus	177	33	33	32	0	32	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0											
CUNY Graduate Ctr.	45	298	174	25	0	25	6	3	9	15	10	5	0	55	47	14	2	2	4	3	3	124											
Fordham U.	128	97	54	0	0	0	0	0	0	0	0	0	0	36	18	0	0	0	0	0	0	43											
Hofstra U.	201	37	24	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	13											
Jewish Theological Seminary of America	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
Juilliard School	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9											
Long Island U. Brooklyn Campus	263	10	10	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0											
Mt. Sinai School of Medicine	193	26	26	24	0	24	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0											
New School, The	136	64	50	0	0	0	0	0	0	0	0	0	0	15	35	0	0	0	0	0	0	14											

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State and institution	Agricultural and biological sciences																						Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences				Social sciences	Total	Engineering																	
										Total	Chemistry	Physics and astronomy	Other			Psychology	Chemical	Civil	Electrical	Mechanical	Other												
NY Medical C.	283	7	7	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
NY U.	42	372	183	43	2	41	6	0	25	19	12	7	0	36	53	1	0	0	1	0	0	189											
Pace U. New York Campus	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4											
Polytechnic U.	215	21	21	0	0	0	3	0	0	3	2	1	0	0	0	15	2	0	10	0	3	0											
Rensselaer Polytechnic Institute	60	156	138	9	0	9	6	3	10	21	10	11	0	9	80	11	2	24	18	25	18												
Rochester Institute of Technology	319	6	3	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	2	3												
Rockefeller U.	250	13	13	12	0	12	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0												
St. John's U. (Jamaica, NY)	201	50	24	6	0	6	0	0	0	0	0	0	18	0	0	0	0	0	0	0	26												
SUNY Albany	75	178	117	17	0	17	10	2	3	10	2	8	0	33	42	0	0	0	0	0	61												
SUNY Binghamton	119	102	60	4	0	4	2	1	4	8	8	0	0	10	23	8	0	0	0	3	42												
SUNY Buffalo	53	258	154	34	0	34	7	1	5	20	13	7	0	15	28	44	10	9	9	7	104												
SUNY C. of Environmental Science and Forestry	207	23	23	17	13	4	0	1	0	3	3	0	0	0	2	0	0	0	0	2	0												
SUNY C. of Optometry	319	4	3	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1												
SUNY Health Science Ctr. Brooklyn	215	21	21	20	0	20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0												
SUNY Stony Brook main campus	48	214	167	37	0	37	10	12	13	37	5	31	1	16	21	21	0	0	3	8	47												
SUNY Upstate Medical U.	270	9	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
Syracuse U. main campus	86	154	105	10	2	8	7	1	4	19	14	5	0	9	39	16	1	0	11	1	49												
Teachers C. Columbia U.	146	193	47	3	0	3	0	0	0	0	0	0	0	29	15	0	0	0	0	0	146												
Union Theological Seminary	354	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11												
U. Rochester	57	209	145	62	0	62	10	2	4	32	8	24	0	15	7	13	1	0	9	1	64												
Yeshiva U.	114	72	66	53	0	53	0	0	0	0	0	0	0	13	0	0	0	0	0	0	6												
North Carolina	10	1,203	795	290	46	244	28	16	45	100	68	32	0	57	103	156	12	17	46	31	408												
Appalachian State U.	354	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8												
Duke U.	39	239	188	75	1	74	7	4	7	22	14	8	0	9	31	33	0	2	11	7	51												
East Carolina U.	296	17	5	4	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	12												
Fayetteville State U.	354	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7												
NC Agricultural and Technical State U.	215	21	21	0	0	0	0	0	0	0	0	0	0	0	21	0	0	11	8	2	0												
NC State U.	23	338	272	89	43	46	6	7	27	22	12	10	0	13	24	84	12	14	23	8	66												
Southeastern Baptist Theological Seminary	354	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7												
U. NC Chapel Hill	26	419	243	89	2	87	14	5	11	48	39	9	0	20	48	8	0	1	1	0	176												
U. NC Charlotte	251	25	12	1	0	1	1	0	0	1	0	1	0	1	0	8	0	0	0	8	13												
U. NC Greensboro	237	83	16	3	0	3	0	0	0	0	0	0	0	13	0	0	0	0	0	0	67												
Wake Forest U.	165	39	38	29	0	29	0	0	0	7	3	4	0	0	2	0	0	0	0	2	1												
North Dakota	47	73	42	14	3	11	0	1	3	13	13	0	0	9	0	2	0	0	0	2	31												
ND State U. main campus	196	32	25	9	3	6	0	0	3	10	10	0	0	1	0	2	0	0	0	2	7												
U. ND main campus	232	41	17	5	0	5	0	1	0	3	3	0	0	8	0	0	0	0	0	0	24												

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																					Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other	Psychology	Social sciences	Total	Chemical	Civil	Electrical	Mechanical	Other											
Ohio	8	1,606	992	275	32	243	18	15	29	153	93	60	0	119	119	264	49	15	60	32	108	614										
Air Force Institute of Technology	270	9	9	0	0	0	0	0	0	2	0	2	0	0	0	7	0	0	6	0	1	0										
Antioch U. all campuses	305	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Bowling Green State U. main campus	167	78	37	3	0	3	0	0	1	8	7	1	0	16	9	0	0	0	0	0	0	41										
Case Western Reserve U.	60	188	138	49	0	49	2	2	3	17	12	5	0	11	6	48	9	2	5	4	28	50										
Cleveland Institute of Music	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2										
Cleveland State U.	183	39	30	7	0	7	0	0	0	3	3	0	0	0	6	14	2	0	3	0	9	9										
Hebrew Union C.-Jewish Institute of Religion	354	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3										
Kent State U. main campus	131	110	53	9	0	9	3	1	4	13	0	13	0	18	5	0	0	0	0	0	0	57										
Medical C. OH	242	14	14	13	0	13	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0										
Miami U. Oxford	183	43	30	12	0	12	0	1	0	5	5	0	0	6	6	0	0	0	0	0	0	13										
OH State U. main campus	14	560	350	123	26	97	7	7	13	40	24	16	0	19	64	77	7	4	16	12	38	210										
OH U. main campus	142	107	48	11	1	10	0	1	3	10	3	7	0	12	1	10	1	0	5	4	0	59										
U. Akron main campus	105	100	76	0	0	0	0	0	0	21	17	4	0	21	1	33	21	3	1	4	4	24										
U. Cincinnati main campus	63	220	137	27	0	27	3	3	3	21	17	4	0	11	20	49	6	5	17	3	18	83										
U. Dayton	242	25	14	0	0	0	0	0	0	3	0	3	0	0	0	11	0	0	5	4	2	11										
U. Toledo	167	82	37	8	0	8	0	0	2	9	5	4	0	4	1	13	3	1	2	1	6	45										
Wright State U. main campus	238	16	15	9	1	8	3	0	0	0	0	0	0	1	0	2	0	0	0	0	2	1										
Youngstown State U.	354	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6										
Oklahoma	31	367	221	71	31	40	8	7	0	18	13	5	0	38	35	44	12	3	10	9	10	146										
OK State U. main campus	83	203	109	45	30	15	2	0	0	8	6	2	0	15	19	20	5	0	6	3	6	94										
U. OK Norman Campus	92	151	101	26	1	25	4	6	0	10	7	3	0	15	16	24	7	3	4	6	4	50										
U. Tulsa	255	13	11	0	0	0	2	1	0	0	0	0	0	8	0	0	0	0	0	0	0	2										
Oregon	28	407	274	116	37	79	9	13	8	27	15	12	0	29	35	37	3	6	16	0	12	133										
OR Health & Science U.	154	43	43	31	0	31	4	0	0	0	0	0	0	0	8	0	0	7	0	1	0	0										
OR State U.	68	172	132	69	37	32	3	6	4	9	7	2	0	6	9	26	3	6	8	0	9	40										
Portland State U.	242	28	14	0	0	0	0	1	0	4	3	1	0	2	4	3	0	0	1	0	2	14										
U. OR	102	164	85	16	0	16	2	6	4	14	5	9	0	21	22	0	0	0	0	0	0	79										
Pennsylvania	5	2,154	1,280	292	23	269	75	19	60	160	93	66	1	157	194	323	47	28	68	47	133	874										
Bryn Mawr C.	289	19	6	1	0	1	0	0	0	1	0	1	0	4	0	0	0	0	0	0	0	13										
Carnegie Mellon U.	50	195	165	7	0	7	35	0	16	22	10	12	0	6	8	71	10	1	31	7	22	30										
Drexel U.	101	95	86	13	2	11	3	2	1	9	4	5	0	26	1	31	3	5	6	7	10	9										
Duquesne U.	263	26	10	0	0	0	0	0	0	2	2	0	0	8	0	0	0	0	0	0	0	16										
Gannon U.	305	4	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0										
Indiana U. PA main campus	305	72	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	68										
Lehigh U.	142	76	48	2	1	1	5	0	2	6	2	4	0	4	0	29	8	9	1	3	8	28										
Marywood U.	270	11	9	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	2										
PA State U. main campus	9	580	393	99	20	79	8	14	11	53	30	22	1	33	56	119	14	10	21	19	55	187										

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	Agricultural and biological sciences																					Physical sciences					Engineering					Non-S&E
	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other	Psychology	Social sciences	Total	Chemical	Civil	Electrical	Mechanical	Other											
Temple U.	81	223	110	28	0	28	1	0	5	10	8	2	0	42	23	1	0	0	0	0	1	113										
Thomas Jefferson U.	211	22	22	20	0	20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0										
U. PA	29	413	234	69	0	69	14	2	14	33	21	12	0	6	61	35	8	1	3	4	19	179										
U. Pittsburgh main campus	39	347	188	53	0	53	9	1	11	23	15	8	0	15	41	35	4	2	6	7	16	159										
U. of the Sciences Philadelphia	342	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0										
Villanova U.	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4										
Westminster Theological Seminary	354	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9										
Widener U. PA Campus	354	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57										
Rhode Island	36	238	160	33	4	29	2	17	17	23	11	11	1	14	30	24	4	0	11	5	4	78										
Brown U.	86	147	105	21	0	21	2	7	14	18	9	9	0	3	28	12	4	0	5	1	2	42										
Salve Regina U.	354	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7										
U. RI	125	84	55	12	4	8	0	10	3	5	2	2	1	11	2	12	0	0	6	4	2	29										
South Carolina	32	393	211	58	9	49	2	5	10	26	22	4	0	20	28	62	14	15	12	11	10	182										
Clemson U.	96	113	91	27	9	18	2	0	5	13	10	3	0	2	11	31	3	9	6	3	10	22										
Medical U. SC	238	16	15	14	0	14	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1										
SC State U.	354	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23										
U. SC Columbia	86	241	105	17	0	17	0	5	5	12	11	1	0	18	17	31	11	6	6	8	0	136										
South Dakota	48	89	39	15	6	9	0	4	0	2	2	0	0	9	7	2	0	1	0	0	1	50										
SD School of Mines and Technology	283	7	7	1	0	1	0	4	0	0	0	0	0	0	0	2	0	1	0	0	1	0										
SD State U.	215	21	21	12	6	6	0	0	0	2	2	0	0	0	7	0	0	0	0	0	0	0										
U. SD	255	61	11	2	0	2	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	50										
Tennessee	23	690	370	120	11	109	7	1	14	43	27	16	0	84	29	72	8	11	16	8	29	320										
East TN State U.	354	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31										
Meharry Medical C.	242	14	14	12	0	12	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0										
Mid-America Baptist Theological Seminary	354	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8										
Middle TN State U.	305	12	4	0	0	0	0	0	0	2	2	0	0	0	2	0	0	0	0	0	0	8										
TN State U.	255	45	11	1	0	1	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	34										
TN Technological U.	289	9	6	2	2	0	0	0	0	0	0	0	0	0	0	4	0	0	2	2	0	3										
U. Memphis, The	134	110	51	2	0	2	1	0	4	2	2	0	0	34	1	7	0	1	0	2	4	59										
U. TN	55	244	151	34	9	25	3	1	4	19	12	7	0	37	20	33	6	7	4	1	15	93										
U. TN Health Science Ctr.	211	32	22	16	0	16	0	0	0	3	3	0	0	0	0	3	0	0	0	0	3	10										
Vanderbilt U.	80	185	111	53	0	53	3	0	6	15	6	9	0	4	5	25	2	3	10	3	7	74										
Texas	3	2,617	1,595	451	59	392	47	54	68	185	114	71	0	182	185	423	77	65	120	46	115	1,022										
Baylor C. of Dentistry	305	4	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Baylor C. of Medicine	134	51	51	50	0	50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Baylor U.	226	57	18	1	0	1	0	0	6	10	9	1	0	0	1	0	0	0	0	0	0	39										
Dallas Theological Seminary	354	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10										

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	S&E rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences				Social sciences	Total	Engineering																
										Total	Chemistry	Physics and astronomy	Other			Psychology	Chemical	Civil	Electrical	Mechanical	Other											
Lamar U.	305	6	4	0	0	0	0	0	0	1	1	0	0	0	0	3	1	1	1	0	0	2										
Rice U.	89	128	104	9	0	9	3	4	11	20	12	8	0	4	18	35	4	1	8	4	18	24										
Sam Houston State U.	319	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0										
Southern Methodist U.	201	28	24	0	0	0	0	3	7	0	0	0	0	1	6	7	0	0	1	5	1	4										
Southwestern Baptist Theological Seminary	296	31	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	26										
St. Mary's U. (San Antonio, TX)	283	10	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	3										
TX A&M U. Commerce	342	37	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	36										
TX A&M U. Corpus Christi	354	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4										
TX A&M U. Kingsville	328	27	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25										
TX A&M U. main campus	11	492	364	106	39	67	3	12	15	36	28	8	0	31	34	127	31	17	26	16	37	128										
TX Christian U.	255	16	11	1	0	1	0	0	0	4	2	2	0	5	1	0	0	0	0	0	0	5										
TX Southern U.	328	11	2	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	9										
TX State U. San Marcos	328	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0										
TX Tech U.	100	173	87	19	12	7	0	2	5	10	8	2	0	18	9	24	8	6	3	1	6	86										
TX Tech U. Health Science Ctr.	319	5	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2										
TX Woman's U.	232	63	17	7	0	7	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	46										
U. Dallas	328	8	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6										
U. Houston	81	209	110	15	0	15	4	5	4	20	14	6	0	22	18	22	2	4	10	2	4	99										
U. North TX	111	152	69	9	3	6	12	1	4	10	6	4	0	26	3	4	0	0	0	0	4	83										
U. North TX Health Science Ctr.																																
Ft. Worth	226	18	18	18	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
U. TX Arlington	157	58	42	2	0	2	2	0	4	9	6	3	0	5	5	15	0	3	4	1	7	16										
U. TX Austin	7	702	415	47	1	46	16	21	8	57	26	31	0	32	74	160	31	30	50	17	32	287										
U. TX Dallas	154	59	43	4	0	4	5	5	3	3	2	1	0	0	7	16	0	0	15	0	1	16										
U. TX Dental Branch	116	103	61	55	0	55	0	0	0	4	0	4	0	1	1	0	0	0	0	0	0	42										
U. TX El Paso	242	20	14	3	2	1	1	1	0	0	0	0	0	3	0	6	0	3	2	0	1	6										
U. TX Health Science Ctr. San Antonio	180	35	31	30	0	30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	4										
U. TX Medical Branch	188	35	29	27	0	27	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	6										
U. TX San Antonio	319	5	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2										
U. TX Southwestern Medical Ctr.																																
Dallas	142	48	48	35	0	35	0	0	0	0	0	0	0	10	0	3	0	0	0	0	3	0										
U. TX-Pan American	342	7	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6										
Utah	30	343	240	66	4	62	9	11	10	43	33	10	0	30	14	57	12	9	9	9	18	103										
Brigham Young U. main campus	128	65	54	8	0	8	1	0	0	5	4	1	0	18	2	20	8	3	5	4	0	11										
U. UT	58	214	144	45	0	45	8	10	8	30	24	6	0	7	8	28	4	2	3	5	14	70										
UT State U.	157	64	42	13	4	9	0	1	2	8	5	3	0	5	4	9	0	4	1	0	4	22										
Vermont	49	55	34	19	4	15	0	0	0	1	1	0	0	10	0	4	0	1	2	1	0	21										

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										Total	Chemistry	Physics and astronomy	Other			Psychology	Chemical	Civil	Electrical	Mechanical	Other												
Middlebury C.	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2											
U. VT	174	53	34	19	4	15	0	0	0	1	1	0	0	10	0	4	0	1	2	1	0	19											
Virginia	12	1,040	655	141	30	111	34	21	29	63	38	25	0	86	107	174	13	21	52	30	58	385											
C. of William and Mary	188	53	29	3	0	3	4	8	2	10	1	9	0	0	2	0	0	0	0	0	0	24											
George Mason U.	77	162	112	12	7	5	19	4	2	1	0	1	0	14	51	9	0	0	8	0	1	50											
Hampton U.	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2											
Norfolk State U.	354	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2											
Old Dominion U.	146	59	47	9	1	8	2	2	4	6	0	6	0	2	2	20	0	2	4	3	11	12											
Regent U.	354	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10											
Union Theological Seminary & Presbyterian School of Christian Ed.	354	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7											
U. VA main campus	41	358	186	49	2	47	1	2	7	22	17	5	0	25	29	51	6	6	14	3	22	172											
VA Commonwealth U.	111	97	69	33	0	33	0	1	2	7	6	1	0	18	7	1	0	0	0	0	1	28											
VA Polytechnic Institute and State U.	33	290	212	35	20	15	8	4	12	17	14	3	0	27	16	93	7	13	26	24	23	78											
Washington	18	722	477	145	21	124	14	29	14	53	32	20	1	33	83	106	16	9	30	12	39	245											
Gonzaga U.	319	23	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	20											
Seattle Pacific U.	270	18	9	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9											
Seattle U.	354	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8											
U. WA	16	506	344	90	6	84	13	27	12	49	30	18	1	14	55	84	12	5	27	9	31	162											
WA State U.	72	167	121	55	15	40	1	2	2	4	2	2	0	10	25	22	4	4	3	3	8	46											
West Virginia	39	173	112	39	11	28	0	1	4	10	6	4	0	29	11	18	3	5	4	3	3	61											
Marshall U.	289	9	6	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3											
WV U.	85	164	106	33	11	22	0	1	4	10	6	4	0	29	11	18	3	5	4	3	3	58											
Wisconsin	16	784	514	184	32	152	11	12	15	66	36	30	0	36	75	115	17	16	28	21	33	270											
Cardinal Stritch U.	354	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14											
Marquette U.	222	45	19	3	0	3	0	0	1	3	3	0	0	3	0	9	0	0	1	3	5	26											
Medical C. WI	191	27	27	26	0	26	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0											
U. WI Madison	6	627	429	151	32	119	10	12	14	57	31	26	0	24	63	98	17	14	24	17	26	198											
U. WI Milwaukee	161	71	39	4	0	4	1	0	0	5	2	3	0	9	12	8	0	2	3	1	2	32											
Wyoming	50	42	31	12	4	8	0	4	0	6	6	0	0	5	1	3	1	2	0	0	0	11											
U. WY	180	42	31	12	4	8	0	4	0	6	6	0	0	5	1	3	1	2	0	0	0	11											
Puerto Rico	46	71	48	9	0	9	0	2	0	12	9	3	0	21	0	4	1	2	1	0	0	23											
International American U. PR																																	
Metropolitan Campus	354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1											
Ponce School of Medicine	305	4	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Pontifical Catholic U. PR, The	328	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0											
U. PR Mayaguez Campus	289	6	6	0	0	0	0	2	0	0	0	0	0	0	4	1	2	1	0	0	0	0											

TABLE 12. Doctorates awarded, by state, institution, and major field: 2004

State and institution	S&E			Agricultural and biological sciences						Physical sciences					Engineering					Non-S&E		
	rank	All fields	All S&E	Total	Agricultural	Biological	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Total	Chemistry	Physics and astronomy	Other	Psychology	Social sciences	Total	Chemical	Civil	Electrical		Mechanical	Other
U. PR Medical Sciences Campus	328	2	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR Rio Piedras Campus	174	56	34	3	0	3	0	0	0	12	9	3	0	19	0	0	0	0	0	0	0	22

na = not applicable.

S&E = science and engineering.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE 13. Definite postgraduation plans of doctorate recipients, by citizenship status and major field: 200-

Citizenship and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States				Abroad	Unknown	
			Total	Postdoctoral study	Academic employment	Industry employment			Other ^a
All recipients	42,155	26,280	23,497	8,210	8,247	2,772	4,268	2,742	41
Science and engineering	26,275	16,467	14,573	7,405	3,092	2,305	1,771	1,862	32
Science	20,499	13,141	11,735	6,330	2,715	1,256	1,434	1,388	18
Agricultural sciences	1,046	607	494	232	92	83	87	113	0
Biological sciences	5,937	3,904	3,661	2,962	265	168	266	238	5
Computer sciences	949	600	511	112	205	153	41	88	1
Earth, atmospheric, and ocean sciences	672	440	381	220	66	47	48	59	0
Mathematics	1,075	749	630	269	253	65	43	119	0
Physical sciences	3,353	2,183	1,982	1,316	152	378	136	195	6
Astronomy	165	135	119	95	11	7	6	16	0
Chemistry	1,987	1,291	1,207	763	88	276	80	80	4
Physics	1,186	746	647	453	52	95	47	97	2
Other physical sciences	15	11	9	5	1	0	3	2	0
Psychology	3,336	2,010	1,936	875	476	188	397	72	2
Social sciences	4,131	2,648	2,140	344	1,206	174	416	504	4
Engineering	5,776	3,326	2,838	1,075	377	1,049	337	474	14
Aeronautical/astronautical engineering	201	118	98	46	6	27	19	20	0
Chemical engineering	723	453	390	171	12	178	29	61	2
Civil engineering	675	367	302	109	56	91	46	60	5
Electrical engineering	1,649	934	796	200	134	382	80	134	4
Industrial engineering	217	116	88	18	33	22	15	28	0
Materials/metallurgical engineering	509	299	258	140	9	85	24	41	0
Mechanical engineering	853	479	411	176	51	137	47	66	2
Other engineering	949	560	495	215	76	127	77	64	1
Non-science and engineering	15,880	9,813	8,924	805	5,155	467	2,497	880	9
U.S. citizens	26,431	18,153	17,562	5,222	6,745	1,705	3,890	572	19
Science and engineering	14,722	10,125	9,716	4,597	2,298	1,323	1,498	397	12
Science	12,781	8,815	8,453	4,241	2,091	879	1,242	352	10
Agricultural sciences	527	344	333	118	75	66	74	11	0
Biological sciences	3,955	2,763	2,667	2,076	227	124	240	94	2
Computer sciences	398	277	263	53	104	78	28	14	0
Earth, atmospheric, and ocean sciences	405	284	270	143	55	29	43	14	0
Mathematics	455	334	305	120	120	34	31	29	0
Physical sciences	1,748	1,222	1,166	678	124	260	104	52	4
Astronomy	113	94	86	65	10	6	5	8	0
Chemistry	1,110	781	750	414	76	203	57	29	2
Physics	515	339	323	196	37	51	39	14	2
Other physical sciences	10	8	7	3	1	0	3	1	0
Psychology	2,725	1,849	1,817	811	440	182	384	31	1
Social sciences	2,568	1,742	1,632	242	946	106	338	107	3
Engineering	1,941	1,310	1,263	356	207	444	256	45	2
Aeronautical/astronautical engineering	71	53	52	14	4	18	16	1	0
Chemical engineering	290	213	197	73	8	94	22	16	0
Civil engineering	190	131	124	23	35	31	35	5	2
Electrical engineering	419	281	275	50	55	116	54	6	0
Industrial engineering	63	38	38	2	19	5	12	0	0
Materials/metallurgical engineering	192	121	114	45	6	50	13	7	0
Mechanical engineering	271	172	169	44	26	63	36	3	0
Other engineering	445	301	294	105	54	67	68	7	0
Non-science and engineering	11,709	8,028	7,846	625	4,447	382	2,392	175	7
Non-U.S. citizen with permanent visa	1,528	908	850	301	307	155	87	55	3
Science and engineering	999	609	572	267	127	137	41	35	2
Science	758	470	438	233	106	65	34	31	1
Agricultural sciences	36	20	18	12	3	1	2	2	0
Biological sciences	232	153	147	123	8	8	8	5	1
Computer sciences	50	31	31	7	12	9	3	0	0
Earth, atmospheric, and ocean sciences	21	13	12	7	0	4	1	1	0

TABLE 13. Definite postgraduation plans of doctorate recipients, by citizenship status and major field: 200-

Citizenship and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States				Abroad	Unknown	
			Total	Postdoctoral study	Academic employment	Industry employment			Other ^a
Mathematics	55	29	28	14	10	3	1	1	0
Physical sciences	118	70	63	36	5	19	3	7	0
Astronomy	2	1	1	0	1	0	0	0	0
Chemistry	70	42	39	20	2	14	3	3	0
Physics	44	26	22	15	2	5	0	4	0
Other physical sciences	2	1	1	1	0	0	0	0	0
Psychology	64	43	41	18	13	4	6	2	0
Social sciences	182	111	98	16	55	17	10	13	0
Engineering	241	139	134	34	21	72	7	4	1
Aeronautical/astronautical engineering	6	3	3	1	0	2	0	0	0
Chemical engineering	22	13	12	1	0	11	0	1	0
Civil engineering	34	20	19	5	8	5	1	0	1
Electrical engineering	79	47	46	9	4	31	2	1	0
Industrial engineering	14	9	9	2	2	5	0	0	0
Materials/metallurgical engineering	18	9	7	4	0	1	2	2	0
Mechanical engineering	28	16	16	5	4	5	2	0	0
Other engineering	40	22	22	7	3	12	0	0	0
Non-science and engineering	529	299	278	34	180	18	46	20	1
Non-U.S. citizen with temporary visa	11,585	7,174	5,047	2,674	1,184	906	283	2,113	14
Science and engineering	9,122	5,700	4,258	2,529	660	841	228	1,428	14
Science	5,820	3,834	2,826	1,849	511	311	155	1,003	5
Agricultural sciences	413	243	143	102	14	16	11	100	0
Biological sciences	1,462	984	844	761	30	36	17	139	1
Computer sciences	459	292	217	52	89	66	10	74	1
Earth, atmospheric, and ocean sciences	221	140	96	69	10	14	3	44	0
Mathematics	526	386	297	135	123	28	11	89	0
Physical sciences	1,347	887	750	600	23	98	29	135	2
Astronomy	47	40	32	30	0	1	1	8	0
Chemistry	720	467	417	328	10	59	20	48	2
Physics	577	378	300	241	13	38	8	78	0
Other physical sciences	3	2	1	1	0	0	0	1	0
Psychology	188	114	74	45	20	2	7	39	1
Social sciences	1,204	788	405	85	202	51	67	383	0
Engineering	3,302	1,866	1,432	680	149	530	73	425	9
Aeronautical/astronautical engineering	116	62	43	31	2	7	3	19	0
Chemical engineering	365	226	181	97	4	73	7	44	1
Civil engineering	421	214	157	79	13	55	10	55	2
Electrical engineering	1,054	602	472	140	75	233	24	127	3
Industrial engineering	134	68	40	14	12	12	2	28	0
Materials/metallurgical engineering	279	168	136	90	3	34	9	32	0
Mechanical engineering	524	289	224	126	21	68	9	63	2
Other engineering	409	237	179	103	19	48	9	57	1
Non-science and engineering	2,463	1,474	789	145	524	65	55	685	0

^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 science and not in humanities, and public administration is included in social science and not in professional fields. 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, 2004.

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2004

Citizenship and field	Recipients with definite plans	Location of definite plans						
		United States					Abroad	Unknown
		Total	Postdoctoral study	Academic employment	Industry employment	Other ^a		
All recipients	100.0	89.4	31.2	31.4	10.5	16.2	10.4	0.2
Science and engineering	100.0	88.5	45.0	18.8	14.0	10.8	11.3	0.2
Science	100.0	89.3	48.2	20.7	9.6	10.9	10.6	0.1
Agricultural sciences	100.0	81.4	38.2	15.2	13.7	14.3	18.6	0.0
Biological sciences	100.0	93.8	75.9	6.8	4.3	6.8	6.1	0.1
Computer sciences	100.0	85.2	18.7	34.2	25.5	6.8	14.7	0.2
Earth, atmospheric, and ocean sciences	100.0	86.6	50.0	15.0	10.7	10.9	13.4	0.0
Mathematics	100.0	84.1	35.9	33.8	8.7	5.7	15.9	0.0
Physical sciences	100.0	90.8	60.3	7.0	17.3	6.2	8.9	0.3
Astronomy	100.0	88.1	70.4	8.1	5.2	4.4	11.9	0.0
Chemistry	100.0	93.5	59.1	6.8	21.4	6.2	6.2	0.3
Physics	100.0	86.7	60.7	7.0	12.7	6.3	13.0	0.3
Other physical sciences	100.0	81.8	45.5	9.1	0.0	27.3	18.2	0.0
Psychology	100.0	96.3	43.5	23.7	9.4	19.8	3.6	0.1
Social sciences	100.0	80.8	13.0	45.5	6.6	15.7	19.0	0.2
Engineering	100.0	85.3	32.3	11.3	31.5	10.1	14.3	0.4
Aeronautical/astronautical engineering	100.0	83.1	39.0	5.1	22.9	16.1	16.9	0.0
Chemical engineering	100.0	86.1	37.7	2.6	39.3	6.4	13.5	0.4
Civil engineering	100.0	82.3	29.7	15.3	24.8	12.5	16.3	1.4
Electrical engineering	100.0	85.2	21.4	14.3	40.9	8.6	14.3	0.4
Industrial engineering	100.0	75.9	15.5	28.4	19.0	12.9	24.1	0.0
Materials/metallurgical engineering	100.0	86.3	46.8	3.0	28.4	8.0	13.7	0.0
Mechanical engineering	100.0	85.8	36.7	10.6	28.6	9.8	13.8	0.4
Other engineering	100.0	88.4	38.4	13.6	22.7	13.8	11.4	0.2
Non-science and engineering	100.0	90.9	8.2	52.5	4.8	25.4	9.0	0.1
U.S. citizens	100.0	96.7	28.8	37.2	9.4	21.4	3.2	0.1
Science and engineering	100.0	96.0	45.4	22.7	13.1	14.8	3.9	0.1
Science	100.0	95.9	48.1	23.7	10.0	14.1	4.0	0.1
Agricultural sciences	100.0	96.8	34.3	21.8	19.2	21.5	3.2	0.0
Biological sciences	100.0	96.5	75.1	8.2	4.5	8.7	3.4	0.1
Computer sciences	100.0	94.9	19.1	37.5	28.2	10.1	5.1	0.0
Earth, atmospheric, and ocean sciences	100.0	95.1	50.4	19.4	10.2	15.1	4.9	0.0
Mathematics	100.0	91.3	35.9	35.9	10.2	9.3	8.7	0.0
Physical sciences	100.0	95.4	55.5	10.1	21.3	8.5	4.3	0.3
Astronomy	100.0	91.5	69.1	10.6	6.4	5.3	8.5	0.0
Chemistry	100.0	96.0	53.0	9.7	26.0	7.3	3.7	0.3
Physics	100.0	95.3	57.8	10.9	15.0	11.5	4.1	0.6
Other physical sciences	100.0	87.5	37.5	12.5	0.0	37.5	12.5	0.0
Psychology	100.0	98.3	43.9	23.8	9.8	20.8	1.7	0.1
Social sciences	100.0	93.7	13.9	54.3	6.1	19.4	6.1	0.2
Engineering	100.0	96.4	27.2	15.8	33.9	19.5	3.4	0.2
Aeronautical/astronautical engineering	100.0	98.1	26.4	7.5	34.0	30.2	1.9	0.0
Chemical engineering	100.0	92.5	34.3	3.8	44.1	10.3	7.5	0.0
Civil engineering	100.0	94.7	17.6	26.7	23.7	26.7	3.8	1.5
Electrical engineering	100.0	97.9	17.8	19.6	41.3	19.2	2.1	0.0
Industrial engineering	100.0	100.0	5.3	50.0	13.2	31.6	0.0	0.0
Materials/metallurgical engineering	100.0	94.2	37.2	5.0	41.3	10.7	5.8	0.0
Mechanical engineering	100.0	98.3	25.6	15.1	36.6	20.9	1.7	0.0
Other engineering	100.0	97.7	34.9	17.9	22.3	22.6	2.3	0.0
Non-science and engineering	100.0	97.7	7.8	55.4	4.8	29.8	2.2	0.1
Non-U.S. citizen with permanent visa	100.0	93.6	33.1	33.8	17.1	9.6	6.1	0.3
Science and engineering	100.0	93.9	43.8	20.9	22.5	6.7	5.7	0.3
Science	100.0	93.2	49.6	22.6	13.8	7.2	6.6	0.2
Agricultural sciences	100.0	90.0	60.0	15.0	5.0	10.0	10.0	0.0

TABLE 14. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2004

Citizenship and field	Recipients with definite plans	Location of definite plans						
		United States					Abroad	Unknown
		Total	Postdoctoral study	Academic employment	Industry employment	Other ^a		
Biological sciences	100.0	96.1	80.4	5.2	5.2	5.2	3.3	0.7
Computer sciences	100.0	100.0	22.6	38.7	29.0	9.7	0.0	0.0
Earth, atmospheric, and ocean sciences	100.0	92.3	53.8	0.0	30.8	7.7	7.7	0.0
Mathematics	100.0	96.6	48.3	34.5	10.3	3.4	3.4	0.0
Physical sciences	100.0	90.0	51.4	7.1	27.1	4.3	10.0	0.0
Astronomy	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0
Chemistry	100.0	92.9	47.6	4.8	33.3	7.1	7.1	0.0
Physics	100.0	84.6	57.7	7.7	19.2	0.0	15.4	0.0
Other physical sciences	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0
Psychology	100.0	95.3	41.9	30.2	9.3	14.0	4.7	0.0
Social sciences	100.0	88.3	14.4	49.5	15.3	9.0	11.7	0.0
Engineering	100.0	96.4	24.5	15.1	51.8	5.0	2.9	0.7
Aeronautical/astronautical engineering	100.0	100.0	33.3	0.0	66.7	0.0	0.0	0.0
Chemical engineering	100.0	92.3	7.7	0.0	84.6	0.0	7.7	0.0
Civil engineering	100.0	95.0	25.0	40.0	25.0	5.0	0.0	5.0
Electrical engineering	100.0	97.9	19.1	8.5	66.0	4.3	2.1	0.0
Industrial engineering	100.0	100.0	22.2	22.2	55.6	0.0	0.0	0.0
Materials/metallurgical engineering	100.0	77.8	44.4	0.0	11.1	22.2	22.2	0.0
Mechanical engineering	100.0	100.0	31.3	25.0	31.3	12.5	0.0	0.0
Other engineering	100.0	100.0	31.8	13.6	54.5	0.0	0.0	0.0
Non-science and engineering	100.0	93.0	11.4	60.2	6.0	15.4	6.7	0.3
Non-U.S. citizen with temporary visa	100.0	70.4	37.3	16.5	12.6	3.9	29.5	0.2
Science and engineering	100.0	74.7	44.4	11.6	14.8	4.0	25.1	0.2
Science	100.0	73.7	48.2	13.3	8.1	4.0	26.2	0.1
Agricultural sciences	100.0	58.8	42.0	5.8	6.6	4.5	41.2	0.0
Biological sciences	100.0	85.8	77.3	3.0	3.7	1.7	14.1	0.1
Computer sciences	100.0	74.3	17.8	30.5	22.6	3.4	25.3	0.3
Earth, atmospheric, and ocean sciences	100.0	68.6	49.3	7.1	10.0	2.1	31.4	0.0
Mathematics	100.0	76.9	35.0	31.9	7.3	2.8	23.1	0.0
Physical sciences	100.0	84.6	67.6	2.6	11.0	3.3	15.2	0.2
Astronomy	100.0	80.0	75.0	0.0	2.5	2.5	20.0	0.0
Chemistry	100.0	89.3	70.2	2.1	12.6	4.3	10.3	0.4
Physics	100.0	79.4	63.8	3.4	10.1	2.1	20.6	0.0
Other physical sciences	100.0	50.0	50.0	0.0	0.0	0.0	50.0	0.0
Psychology	100.0	64.9	39.5	17.5	1.8	6.1	34.2	0.9
Social sciences	100.0	51.4	10.8	25.6	6.5	8.5	48.6	0.0
Engineering	100.0	76.7	36.4	8.0	28.4	3.9	22.8	0.5
Aeronautical/astronautical engineering	100.0	69.4	50.0	3.2	11.3	4.8	30.6	0.0
Chemical engineering	100.0	80.1	42.9	1.8	32.3	3.1	19.5	0.4
Civil engineering	100.0	73.4	36.9	6.1	25.7	4.7	25.7	0.9
Electrical engineering	100.0	78.4	23.3	12.5	38.7	4.0	21.1	0.5
Industrial engineering	100.0	58.8	20.6	17.6	17.6	2.9	41.2	0.0
Materials/metallurgical engineering	100.0	81.0	53.6	1.8	20.2	5.4	19.0	0.0
Mechanical engineering	100.0	77.5	43.6	7.3	23.5	3.1	21.8	0.7
Other engineering	100.0	75.5	43.5	8.0	20.3	3.8	24.1	0.4
Non-science and engineering	100.0	53.5	9.8	35.5	4.4	3.7	46.5	0.0

^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 science and not in humanities, and public administration is included in social science and not in professional fields. 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, 2004.

TABLE 15. Definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2004

Sex and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States				Abroad	Unknown	
			Total	Postdoctoral study	Academic employment	Industry employment			Other ^a
All recipients	27,959	19,061	18,412	5,523	7,052	1,860	3,977	627	22
Science and engineering	15,721	10,734	10,288	4,864	2,425	1,460	1,539	432	14
Science	13,539	9,285	8,891	4,474	2,197	944	1,276	383	11
Agricultural sciences	563	364	351	130	78	67	76	13	0
Biological sciences	4,187	2,916	2,814	2,199	235	132	248	99	3
Computer sciences	448	308	294	60	116	87	31	14	0
Earth, atmospheric, and ocean sciences	426	297	282	150	55	33	44	15	0
Mathematics	510	363	333	134	130	37	32	30	0
Physical sciences	1,866	1,292	1,229	714	129	279	107	59	4
Astronomy	115	95	87	65	11	6	5	8	0
Chemistry	1,180	823	789	434	78	217	60	32	2
Physics	559	365	345	211	39	56	39	18	2
Other physical sciences	12	9	8	4	1	0	3	1	0
Psychology	2,789	1,892	1,858	829	453	186	390	33	1
Social sciences	2,750	1,853	1,730	258	1,001	123	348	120	3
Engineering	2,182	1,449	1,397	390	228	516	263	49	3
Aeronautical/astronautical engineering	77	56	55	15	4	20	16	1	0
Chemical engineering	312	226	209	74	8	105	22	17	0
Civil engineering	224	151	143	28	43	36	36	5	3
Electrical engineering	498	328	321	59	59	147	56	7	0
Industrial engineering	77	47	47	4	21	10	12	0	0
Materials/metallurgical engineering	210	130	121	49	6	51	15	9	0
Mechanical engineering	299	188	185	49	30	68	38	3	0
Other engineering	485	323	316	112	57	79	68	7	0
Non-science and engineering	12,238	8,327	8,124	659	4,627	400	2,438	195	8
Male	13,734	9,568	9,188	2,948	3,189	1,238	1,813	366	14
Science and engineering	8,875	6,217	5,939	2,727	1,298	1,035	879	266	12
Science	7,163	5,067	4,830	2,431	1,137	593	669	228	9
Agricultural sciences	337	218	208	72	46	48	42	10	0
Biological sciences	2,188	1,593	1,540	1,206	108	74	152	50	3
Computer sciences	345	247	236	47	86	77	26	11	0
Earth, atmospheric, and ocean sciences	260	189	181	92	36	22	31	8	0
Mathematics	356	254	230	93	81	33	23	24	0
Physical sciences	1,356	951	902	531	85	208	78	45	4
Astronomy	82	68	62	46	6	6	4	6	0
Chemistry	798	567	539	307	42	152	38	26	2
Physics	473	313	298	177	37	50	34	13	2
Other physical sciences	3	3	3	1	0	0	2	0	0
Psychology	895	630	619	272	154	66	127	11	0
Social sciences	1,426	985	914	118	541	65	190	69	2
Engineering	1,712	1,150	1,109	296	161	442	210	38	3
Aeronautical/astronautical engineering	67	51	50	12	4	20	14	1	0
Chemical engineering	232	167	154	51	4	80	19	13	0
Civil engineering	159	108	102	21	28	26	27	3	3
Electrical engineering	430	287	281	48	49	137	47	6	0
Industrial engineering	57	33	33	3	13	9	8	0	0
Materials/metallurgical engineering	173	107	100	42	4	42	12	7	0
Mechanical engineering	255	163	160	43	25	58	34	3	0
Other engineering	339	234	229	76	34	70	49	5	0
Non-science and engineering	4,859	3,351	3,249	221	1,891	203	934	100	2
Female	14,221	9,493	9,224	2,575	3,863	622	2,164	261	8
Science and engineering	6,842	4,517	4,349	2,137	1,127	425	660	166	2
Science	6,372	4,218	4,061	2,043	1,060	351	607	155	2
Agricultural sciences	226	146	143	58	32	19	34	3	0
Biological sciences	1,997	1,323	1,274	993	127	58	96	49	0

TABLE 15. Definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2004

Sex and field	All recipients	Recipients with definite plans	Location of definite plans						
			United States				Abroad	Unknown	
			Total	Postdoctoral study	Academic employment	Industry employment			Other ^a
Computer sciences	102	61	58	13	30	10	5	3	0
Earth, atmospheric, and ocean sciences	166	108	101	58	19	11	13	7	0
Mathematics	154	109	103	41	49	4	9	6	0
Physical sciences	510	341	327	183	44	71	29	14	0
Astronomy	33	27	25	19	5	0	1	2	0
Chemistry	382	256	250	127	36	65	22	6	0
Physics	86	52	47	34	2	6	5	5	0
Other physical sciences	9	6	5	3	1	0	1	1	0
Psychology	1,893	1,262	1,239	557	299	120	263	22	1
Social sciences	1,324	868	816	140	460	58	158	51	1
Engineering	470	299	288	94	67	74	53	11	0
Aeronautical/astronautical engineering	10	5	5	3	0	0	2	0	0
Chemical engineering	80	59	55	23	4	25	3	4	0
Civil engineering	65	43	41	7	15	10	9	2	0
Electrical engineering	68	41	40	11	10	10	9	1	0
Industrial engineering	20	14	14	1	8	1	4	0	0
Materials/metallurgical engineering	37	23	21	7	2	9	3	2	0
Mechanical engineering	44	25	25	6	5	10	4	0	0
Other engineering	146	89	87	36	23	9	19	2	0
Non-science and engineering	7,379	4,976	4,875	438	2,736	197	1,504	95	6

^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 science and not in humanities, and public administration is included in social science and not in professional fields. 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, 2004.

TABLE 16. Percentage distribution of definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2004

Sex and field	Recipients with definite plans	Location of definite plans						
		United States					Abroad	Unknown
		Total	Postdoctoral study	Academic employment	Industry employment	Other ^a		
All recipients	100.0	96.6	29.0	37.0	9.8	20.9	3.3	0.1
Science and engineering	100.0	95.8	45.3	22.6	13.6	14.3	4.0	0.1
Science	100.0	95.8	48.2	23.7	10.2	13.7	4.1	0.1
Agricultural sciences	100.0	96.4	35.7	21.4	18.4	20.9	3.6	0.0
Biological sciences	100.0	96.5	75.4	8.1	4.5	8.5	3.4	0.1
Computer sciences	100.0	95.5	19.5	37.7	28.2	10.1	4.5	0.0
Earth, atmospheric, and ocean sciences	100.0	94.9	50.5	18.5	11.1	14.8	5.1	0.0
Mathematics	100.0	91.7	36.9	35.8	10.2	8.8	8.3	0.0
Physical sciences	100.0	95.1	55.3	10.0	21.6	8.3	4.6	0.3
Astronomy	100.0	91.6	68.4	11.6	6.3	5.3	8.4	0.0
Chemistry	100.0	95.9	52.7	9.5	26.4	7.3	3.9	0.2
Physics	100.0	94.5	57.8	10.7	15.3	10.7	4.9	0.5
Other physical sciences	100.0	88.9	44.4	11.1	0.0	33.3	11.1	0.0
Psychology	100.0	98.2	43.8	23.9	9.8	20.6	1.7	0.1
Social sciences	100.0	93.4	13.9	54.0	6.6	18.8	6.5	0.2
Engineering	100.0	96.4	26.9	15.7	35.6	18.2	3.4	0.2
Aeronautical/astronautical engineering	100.0	98.2	26.8	7.1	35.7	28.6	1.8	0.0
Chemical engineering	100.0	92.5	32.7	3.5	46.5	9.7	7.5	0.0
Civil engineering	100.0	94.7	18.5	28.5	23.8	23.8	3.3	2.0
Electrical engineering	100.0	97.9	18.0	18.0	44.8	17.1	2.1	0.0
Industrial engineering	100.0	100.0	8.5	44.7	21.3	25.5	0.0	0.0
Materials/metallurgical engineering	100.0	93.1	37.7	4.6	39.2	11.5	6.9	0.0
Mechanical engineering	100.0	98.4	26.1	16.0	36.2	20.2	1.6	0.0
Other engineering	100.0	97.8	34.7	17.6	24.5	21.1	2.2	0.0
Non-science and engineering	100.0	97.6	7.9	55.6	4.8	29.3	2.3	0.1
Male	100.0	96.0	30.8	33.3	12.9	18.9	3.8	0.1
Science and engineering	100.0	95.5	43.9	20.9	16.6	14.1	4.3	0.2
Science	100.0	95.3	48.0	22.4	11.7	13.2	4.5	0.2
Agricultural sciences	100.0	95.4	33.0	21.1	22.0	19.3	4.6	0.0
Biological sciences	100.0	96.7	75.7	6.8	4.6	9.5	3.1	0.2
Computer sciences	100.0	95.5	19.0	34.8	31.2	10.5	4.5	0.0
Earth, atmospheric, and ocean sciences	100.0	95.8	48.7	19.0	11.6	16.4	4.2	0.0
Mathematics	100.0	90.6	36.6	31.9	13.0	9.1	9.4	0.0
Physical sciences	100.0	94.8	55.8	8.9	21.9	8.2	4.7	0.4
Astronomy	100.0	91.2	67.6	8.8	8.8	5.9	8.8	0.0
Chemistry	100.0	95.1	54.1	7.4	26.8	6.7	4.6	0.4
Physics	100.0	95.2	56.5	11.8	16.0	10.9	4.2	0.6
Other physical sciences	100.0	100.0	33.3	0.0	0.0	66.7	0.0	0.0
Psychology	100.0	98.3	43.2	24.4	10.5	20.2	1.7	0.0
Social sciences	100.0	92.8	12.0	54.9	6.6	19.3	7.0	0.2
Engineering	100.0	96.4	25.7	14.0	38.4	18.3	3.3	0.3
Aeronautical/astronautical engineering	100.0	98.0	23.5	7.8	39.2	27.5	2.0	0.0
Chemical engineering	100.0	92.2	30.5	2.4	47.9	11.4	7.8	0.0
Civil engineering	100.0	94.4	19.4	25.9	24.1	25.0	2.8	2.8
Electrical engineering	100.0	97.9	16.7	17.1	47.7	16.4	2.1	0.0
Industrial engineering	100.0	100.0	9.1	39.4	27.3	24.2	0.0	0.0
Materials/metallurgical engineering	100.0	93.5	39.3	3.7	39.3	11.2	6.5	0.0
Mechanical engineering	100.0	98.2	26.4	15.3	35.6	20.9	1.8	0.0
Other engineering	100.0	97.9	32.5	14.5	29.9	20.9	2.1	0.0
Non-science and engineering	100.0	97.0	6.6	56.4	6.1	27.9	3.0	0.1
Female	100.0	97.2	27.1	40.7	6.6	22.8	2.7	0.1
Science and engineering	100.0	96.3	47.3	25.0	9.4	14.6	3.7	0.0

TABLE 16. Percentage distribution of definite postgraduation plans of U.S. citizen and permanent resident doctorate recipients, by sex and major field: 2004

Sex and field	Recipients with definite plans	Location of definite plans						
		United States				Other ^a	Abroad	Unknown
		Total	Postdoctoral study	Academic employment	Industry employment			
Science	100.0	96.3	48.4	25.1	8.3	14.4	3.7	0.0
Agricultural sciences	100.0	97.9	39.7	21.9	13.0	23.3	2.1	0.0
Biological sciences	100.0	96.3	75.1	9.6	4.4	7.3	3.7	0.0
Computer sciences	100.0	95.1	21.3	49.2	16.4	8.2	4.9	0.0
Earth, atmospheric, and ocean sciences	100.0	93.5	53.7	17.6	10.2	12.0	6.5	0.0
Mathematics	100.0	94.5	37.6	45.0	3.7	8.3	5.5	0.0
Physical sciences	100.0	95.9	53.7	12.9	20.8	8.5	4.1	0.0
Astronomy	100.0	92.6	70.4	18.5	0.0	3.7	7.4	0.0
Chemistry	100.0	97.7	49.6	14.1	25.4	8.6	2.3	0.0
Physics	100.0	90.4	65.4	3.8	11.5	9.6	9.6	0.0
Other physical sciences	100.0	83.3	50.0	16.7	0.0	16.7	16.7	0.0
Psychology	100.0	98.2	44.1	23.7	9.5	20.8	1.7	0.1
Social sciences	100.0	94.0	16.1	53.0	6.7	18.2	5.9	0.1
Engineering	100.0	96.3	31.4	22.4	24.7	17.7	3.7	0.0
Aeronautical/astronautical engineering	100.0	100.0	60.0	0.0	0.0	40.0	0.0	0.0
Chemical engineering	100.0	93.2	39.0	6.8	42.4	5.1	6.8	0.0
Civil engineering	100.0	95.3	16.3	34.9	23.3	20.9	4.7	0.0
Electrical engineering	100.0	97.6	26.8	24.4	24.4	22.0	2.4	0.0
Industrial engineering	100.0	100.0	7.1	57.1	7.1	28.6	0.0	0.0
Materials/metallurgical engineering	100.0	91.3	30.4	8.7	39.1	13.0	8.7	0.0
Mechanical engineering	100.0	100.0	24.0	20.0	40.0	16.0	0.0	0.0
Other engineering	100.0	97.8	40.4	25.8	10.1	21.3	2.2	0.0
Non-science and engineering	100.0	98.0	8.8	55.0	4.0	30.2	1.9	0.1

^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 science and not in humanities, and public administration is included in social science and not in professional fields. 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, 2004.

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:

- 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/Pacific Islander” category; Native Hawaiians/Pacific Islanders are included in the “other/unknown” category; and multiple race/ethnicity response data were included in the other/unknown race/ethnicity response data. Data in the “Cuban” category were combined with those in the “other Hispanic” category.

DATA COLLECTION

The population for the 2004 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 2004. The total universe consisted of 42,155 persons in over 400 institutions that conferred research doctorate awards in 2004.

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 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*.¹

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 42,155 new research doctorates granted in academic year 2004, 90.8 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 29 percent of the total nonrespondents.

¹ Hunt, E.S. 1994. Washington, DC: U.S. Department of Education; National Science Foundation. ISBN 0161452414.

Item nonresponse rates in 2004 for the most frequently used variables ranged from 0.2 percent for sex to 8.7 percent for postgraduation location. No imputation was performed for missing data items.

Key variable	Item response rate (%)
Sex	99.8
Citizenship	93.8
Country of non-U.S. citizens	93.5
Race/ethnicity	93.5
Postgraduation location (U.S. or foreign)	91.3

A complete quality profile for the 2004 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 2004). The report is available on the Web at 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.

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. For more information about this survey, contact

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APPENDIX B: FIELDS OF STUDY

SCIENCE

Biological/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/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
- 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

Other physical sciences

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/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

^a This subfield dropped in 2004.

^b This subfield introduced in 2001.

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)
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Survey of Earned Doctorates

July 1, 2003, to June 30, 2004

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.

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

<u>Undergraduate</u>	<u>Graduate</u>
0 <input type="checkbox"/> None	0 <input type="checkbox"/> None
1 <input type="checkbox"/> \$10,000 or less	1 <input type="checkbox"/> \$10,000 or less
2 <input type="checkbox"/> \$10,001 - \$20,000	2 <input type="checkbox"/> \$10,001 - \$20,000
3 <input type="checkbox"/> \$20,001 - \$30,000	3 <input type="checkbox"/> \$20,001 - \$30,000
4 <input type="checkbox"/> \$30,001 - \$40,000	4 <input type="checkbox"/> \$30,001 - \$40,000
5 <input type="checkbox"/> \$40,001 - \$50,000	5 <input type="checkbox"/> \$40,001 - \$50,000
6 <input type="checkbox"/> \$50,001 or more	6 <input type="checkbox"/> \$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	<input checked="" type="checkbox"/> Yes No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
b. Month/year that you started your degree.	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
c. Month/year of degree award	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Month <input type="checkbox"/> <input type="checkbox"/> Year <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
d. Primary field of study	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. Field number from list on p. 7	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
f. Institution name	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. Branch or city	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. State or province	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. Country	USA	<input type="text"/>	<input type="text"/>

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 → **GO TO B4**
- 1 Have signed contract or made definite commitment for other work or study → **GO TO B4**
- 2 Negotiating with one or more specific organizations → **SKIP TO C1**
- 3 Seeking position but have no specific prospects → **SKIP TO C1**
- 4 Do not plan to work or study → **SKIP TO C1**
- 5 Other - Specify

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

Mark (X) one

FURTHER TRAINING OR STUDY

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

EMPLOYMENT

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

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

Mark (X) one

- 0 U.S. Government
- 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 <input type="checkbox"/>	1 <input type="checkbox"/>
Teaching	2 <input type="checkbox"/>	2 <input type="checkbox"/>
Management or administration	3 <input type="checkbox"/>	3 <input type="checkbox"/>
Professional services to individuals	4 <input type="checkbox"/>	4 <input type="checkbox"/>
Other - Specify	5 <input type="checkbox"/>	5 <input type="checkbox"/>

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	<input type="text"/>
6 to 18 years	<input type="text"/>
19 years or older	<input type="text"/>

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 <input type="checkbox"/>	1 <input type="checkbox"/>
High/secondary school graduate	2 <input type="checkbox"/>	2 <input type="checkbox"/>
Some college	3 <input type="checkbox"/>	3 <input type="checkbox"/>
Bachelor's degree	4 <input type="checkbox"/>	4 <input type="checkbox"/>
Master's degree (e.g., MA, MS, MBA, MSW, etc.)	5 <input type="checkbox"/>	5 <input type="checkbox"/>
Professional degree (e.g., JD, LLB, D.Min, MD, DDS, etc.)	6 <input type="checkbox"/>	6 <input type="checkbox"/>
Doctoral degree	7 <input type="checkbox"/>	7 <input type="checkbox"/>
Not applicable	8 <input type="checkbox"/>	8 <input type="checkbox"/>

C5. What is your place of birth?

State (if U.S.)

OR

Country (if not U.S.)

C6. What is your date of birth?

Month Day Year
 1 9

C7. What is your citizenship status?

Mark (X) one

U.S. CITIZEN

- 0 Since birth **SKIP TO C9**
1 Naturalized

NON-U.S. CITIZEN

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

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

(Specify country of present citizenship)

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

State (if U.S.)

OR

Country (if not U.S.)

C10. Are you a person with a disability?

1 Yes → **GO TO C11**

2 No → **SKIP TO C12**

C11. 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.

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:	
PROCESSING					
Receipt		Editing		CADE	
Initials	Date	Initials	Date	Initials	Date
Ver. Adjust		Retrieval		Updates	
Initials	Date	Initials	Date	Initials	Date