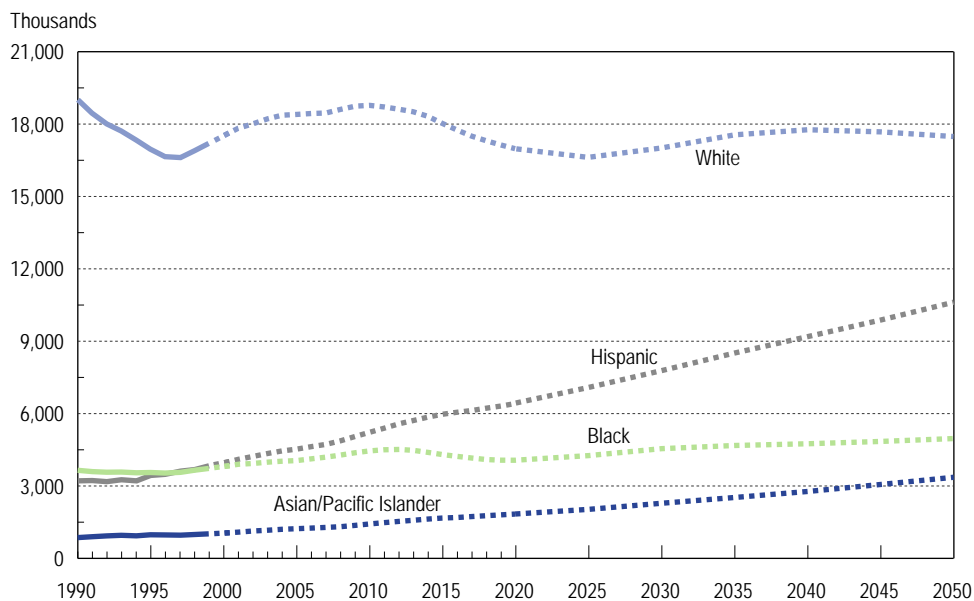


FIGURE A-1. U.S. population 18–24 years old, by race/ethnicity: July 1990–99 and projections to 2050



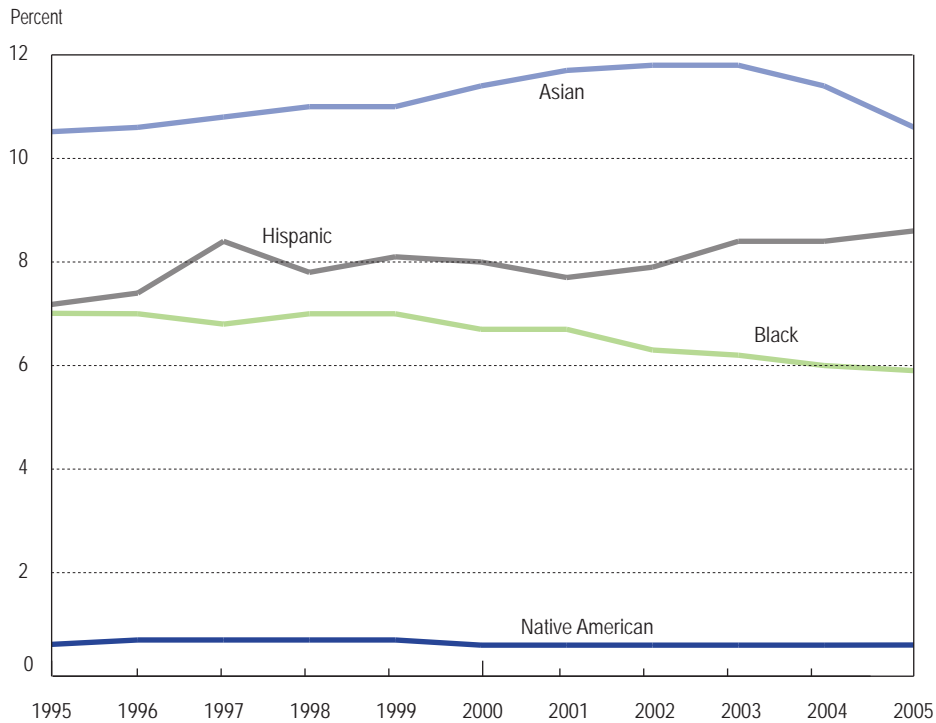
NOTE: Hispanics may be of any race. Data for American Indians/Alaskan Natives are not shown but can be found in table A-2.

SOURCE: U.S. Bureau of the Census, Current Population Survey, annual series; and U.S. Bureau of the Census, *Projections of the Total Resident Population by 5-Year Age Groups, and Sex With Special Age Categories: Middle Series, 1999 to 2100*, NP-T3, <http://www.census.gov/population/www/projections/natsum-T3.html>.

The proportion of the U.S. population that is minority will continue to rise in the first half of the 21st century.

- According to the latest population projections, minorities (Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives) are expected to be more than half (52 percent) of the resident college-age (18–24 years old) population of the United States by 2050, up from 34 percent in 1999.
- By 2050, whites would constitute 48 percent of the U.S. population 18–24 years old, down from 66 percent in 1999.
- The greatest growth among minority groups is projected for Hispanics and Asians/Pacific Islanders, reflecting immigration trends.
- Relatively little growth is projected for college-age blacks and American Indians/Alaskan Natives; these populations would remain 14 and 0.9 percent, respectively, of all U.S. 18–24-year-olds in 2050.

FIGURE B-1. Minority undergraduate engineering students, by race/ethnicity: 1995–2005



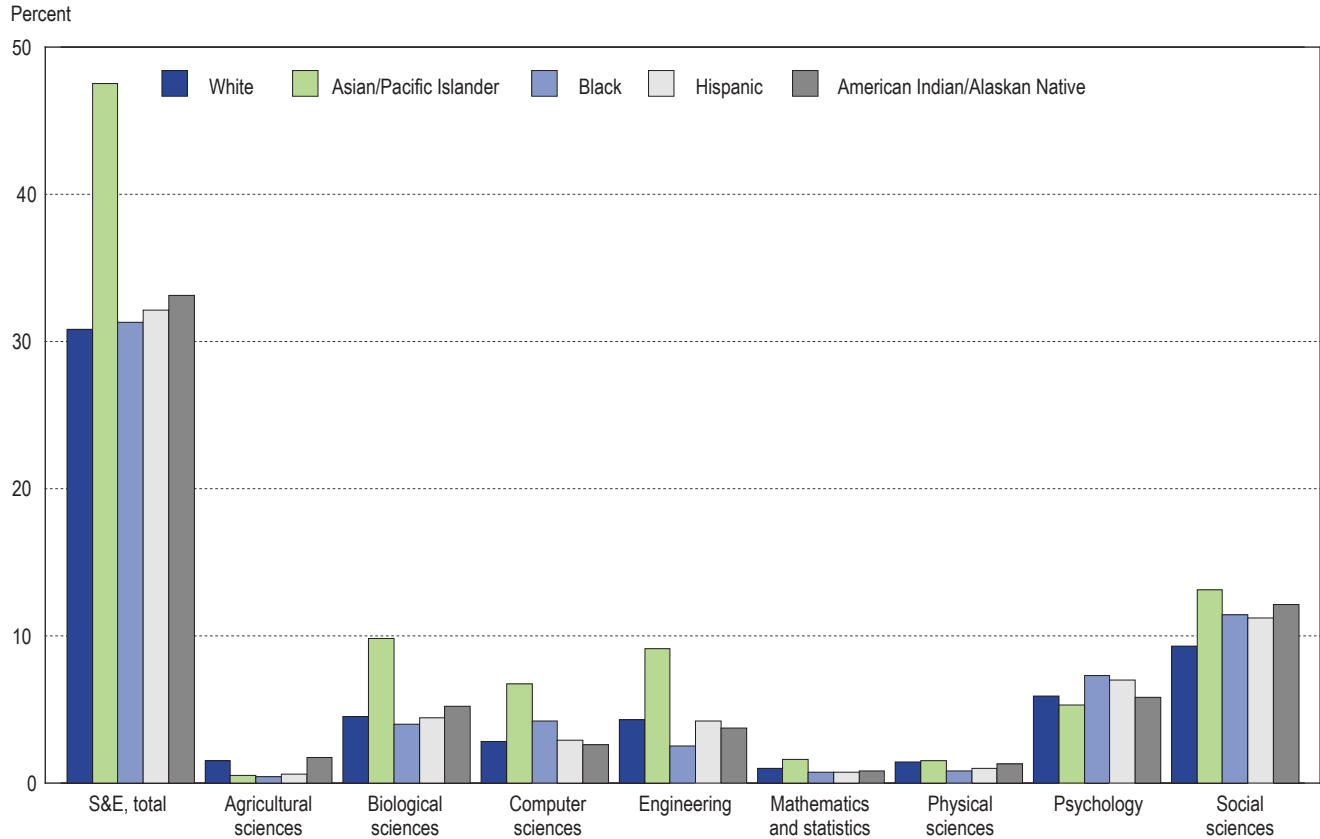
NOTE: Race/ethnicity breakouts are for U.S. citizens and permanent residents only.

SOURCE: Engineering Workforce Commission, Engineering & Technology Enrollments: Fall 2005 (Washington, DC, 2006).

Minorities, with the exception of Hispanics, show no increase in their proportion of undergraduate engineering enrollment over the past 10 years.

- The percentage of undergraduate engineering students who are white was 69 percent in 1995 and in 2005.
- The Asian share of undergraduate engineering enrollment increased between 1990 and 2003 and has decreased since then.
- Black students were roughly 7 percent of engineering undergraduates from 1995 through 2001 and roughly 6 percent since then.
- Native Americans were 0.6 to 0.7 percent of undergraduate engineering enrollment from 1995 through 2005.
- Hispanic enrollment generally increased over this period, from 7 percent in 1995 to close to 9 percent in 2005.

FIGURE C-3. Science and engineering bachelor's degrees as share of all bachelor's degrees awarded, by race/ethnicity: 2005



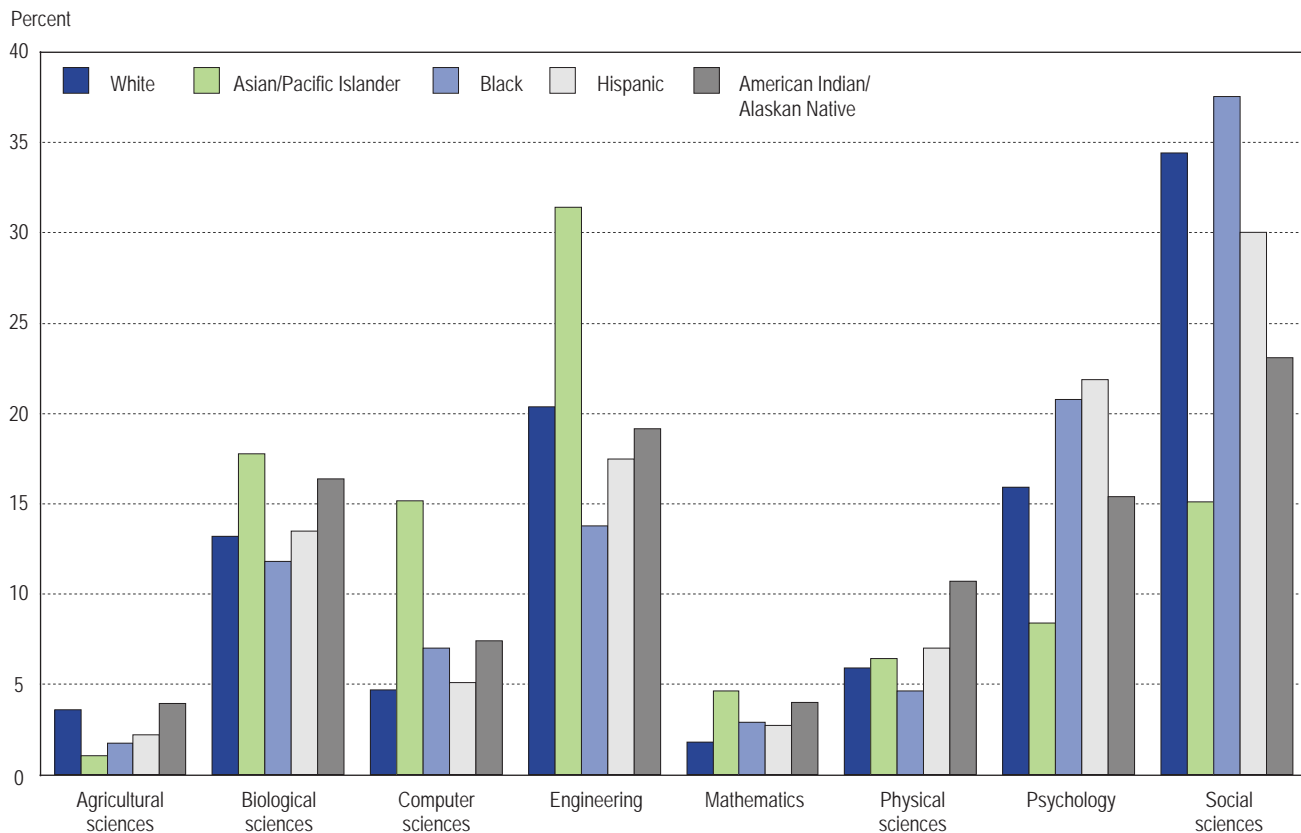
NOTE: Percents refer to percentage of each racial/ethnic group earning degrees in a given field. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2005.

With the exception of Asians/Pacific Islanders, for whom almost half (48%) of all bachelor's degrees earned are in S&E, about one-third of all bachelor's degrees earned by each racial/ethnic group are in S&E.

- White, black, Hispanic, and American Indian/Alaskan Native S&E bachelor's degree recipients are similarly distributed across most broad S&E fields.
- Asians/Pacific Islanders earn a higher percent of their bachelor's degrees in computer sciences, biological sciences, and engineering than do other racial/ethnic groups.

FIGURE D-2. Field distribution of S&E graduate students, by race/ethnicity: 2005



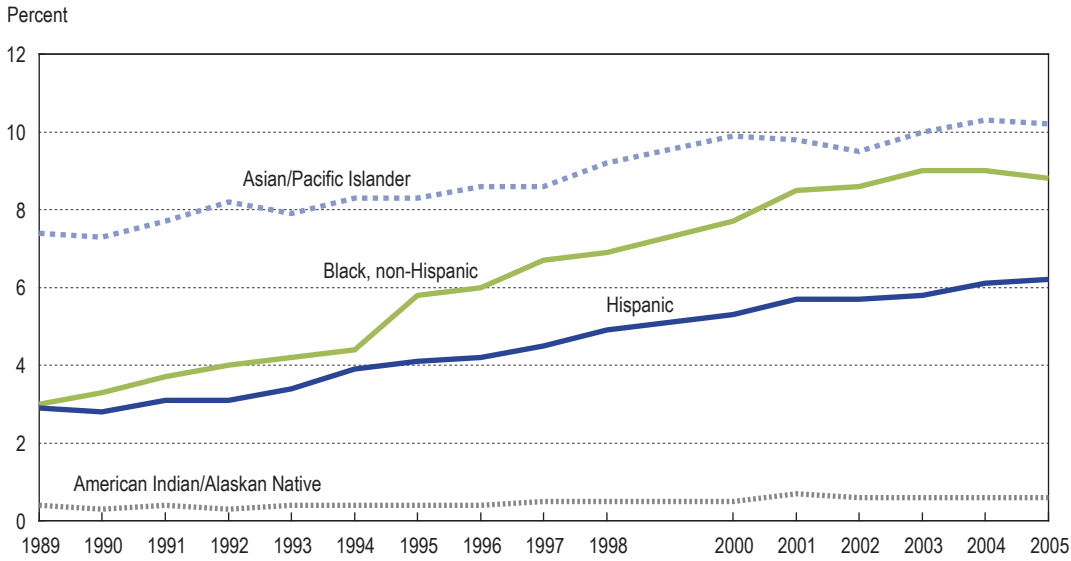
NOTES: Data are for U.S. citizens and permanent residents only. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

Asian/Pacific Islander S&E graduate students are distributed among S&E fields differently from graduate students of other groups.

- In 2005, 50% or more of black, Hispanic, and American Indian/Alaska Native graduate students and 39% of white students were in psychology or social sciences, compared to 24% of Asian/Pacific Islander students.
- Larger percentages of Asian/Pacific Islander graduate students than of other groups were in computer sciences and engineering.

**FIGURE E-2. Minority share of S&E master's degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 1989–2005**



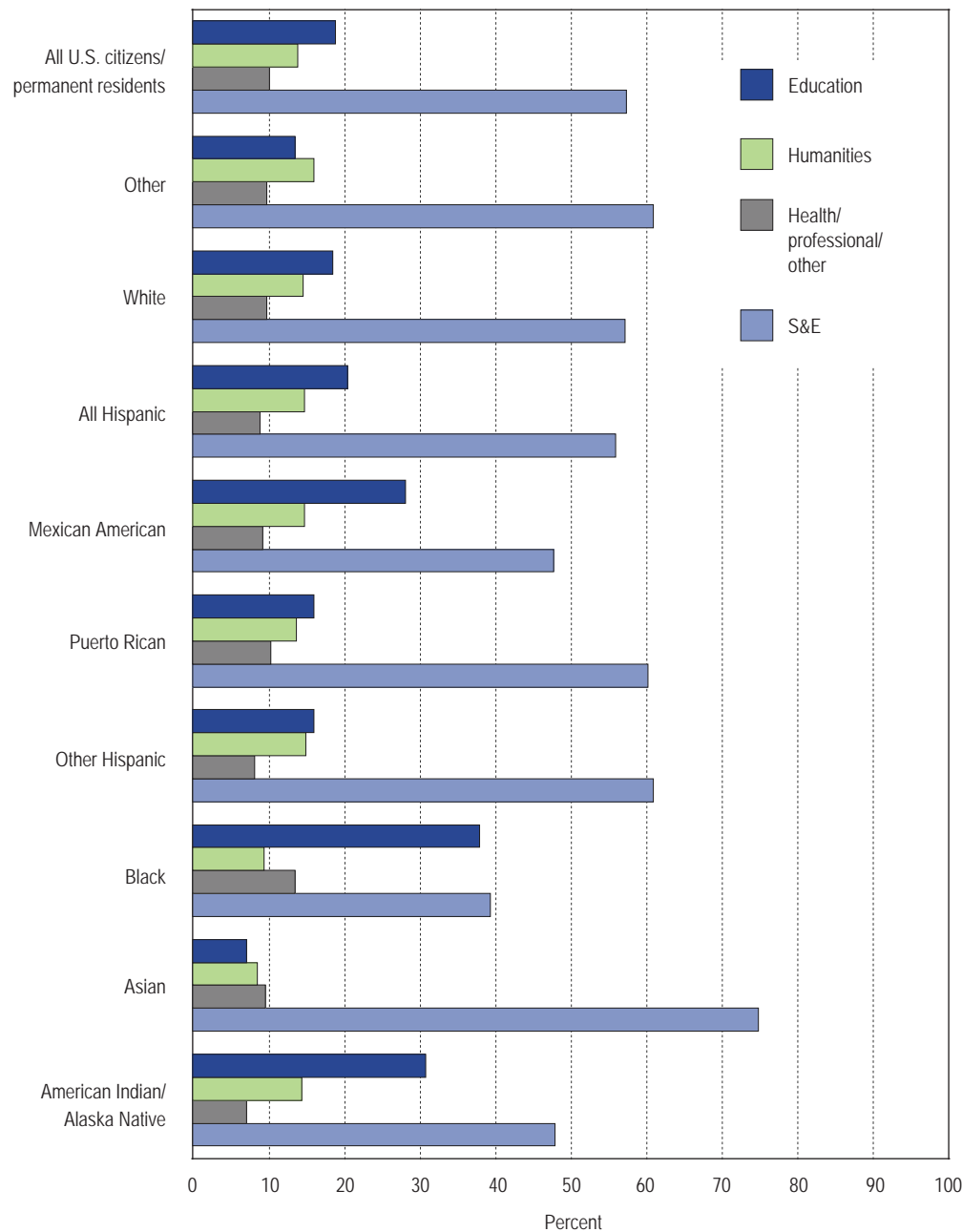
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1989–2005.

The number of S&E master's degrees earned by Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives increased since 1989.

- The percentage of S&E master's degrees awarded increased for all minority groups since 1989.
- The proportion of S&E master's degrees awarded to blacks and Hispanics more than doubled, from 3% to 9% and from 3% to 6%, respectively, from 1989 to 2005.

FIGURE F-2. Field distribution of S&E and non-S&E doctoral degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 2005



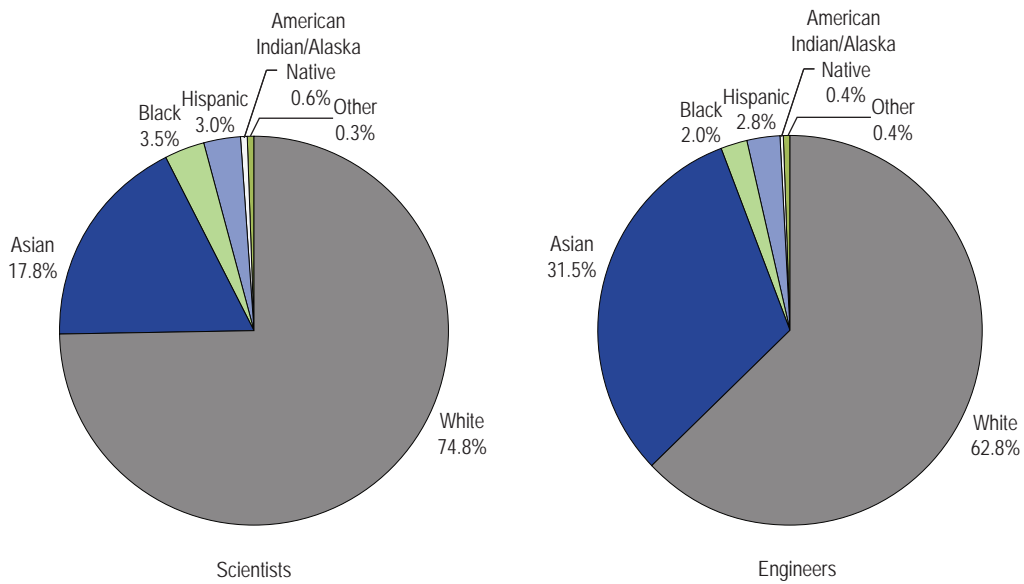
NOTE: Hispanic total includes Puerto Rican, Mexican American, and other Hispanic.

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

The proportion of all doctorates earned in S&E fields varies considerably across racial/ethnic groups.

- More than half of all doctorates awarded to U.S. citizens and permanent residents were earned in S&E fields in 2005.
- Among blacks, more than half of the doctorates earned in 2005 were in non-S&E fields, primarily education.
- In contrast, 75% of doctorates earned by Asians were in S&E fields and 7% were in education in 2005.

FIGURE H-1. Employed doctoral scientists and engineers, by race/ethnicity and occupation: 2003



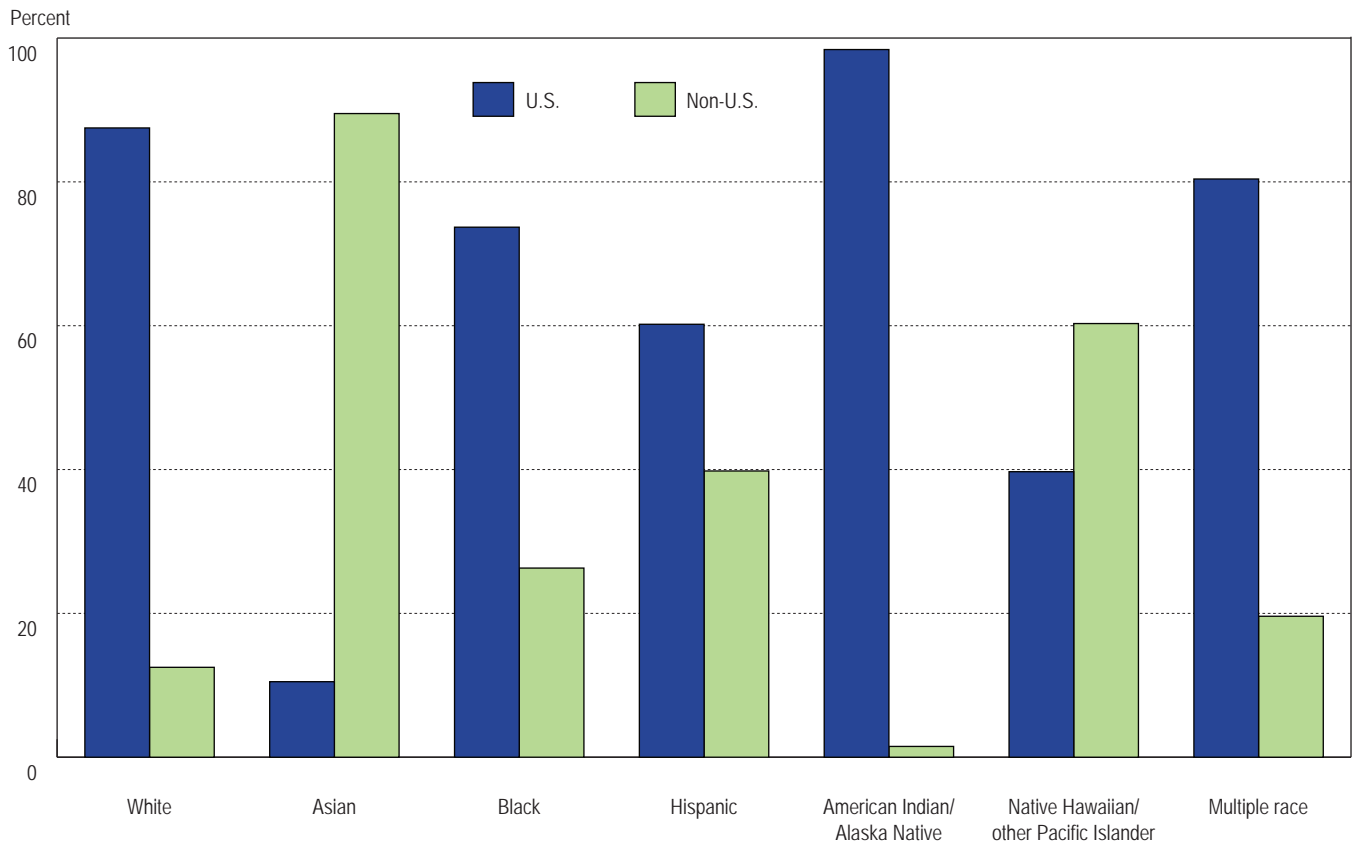
NOTE: Other includes Native Hawaiian/other Pacific Islander and multiple race.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

The racial/ethnic composition of doctoral engineers differs markedly from that of doctoral scientists.

- Asians comprised a far larger share and whites a much smaller share of doctoral engineers than of doctoral scientists in 2003.
- Blacks and Hispanics each constituted 3–4 percent of doctoral scientists and 2–3 percent of doctoral engineers.
- American Indians/Alaska Natives were 0.6 percent of doctoral scientists and 0.4 percent of doctoral engineers in 2003.

FIGURE H-6. Doctoral science and engineering faculty, by race/ethnicity and country of birth: 2003



NOTE: Includes full, associate, and assistant professors and instructors.

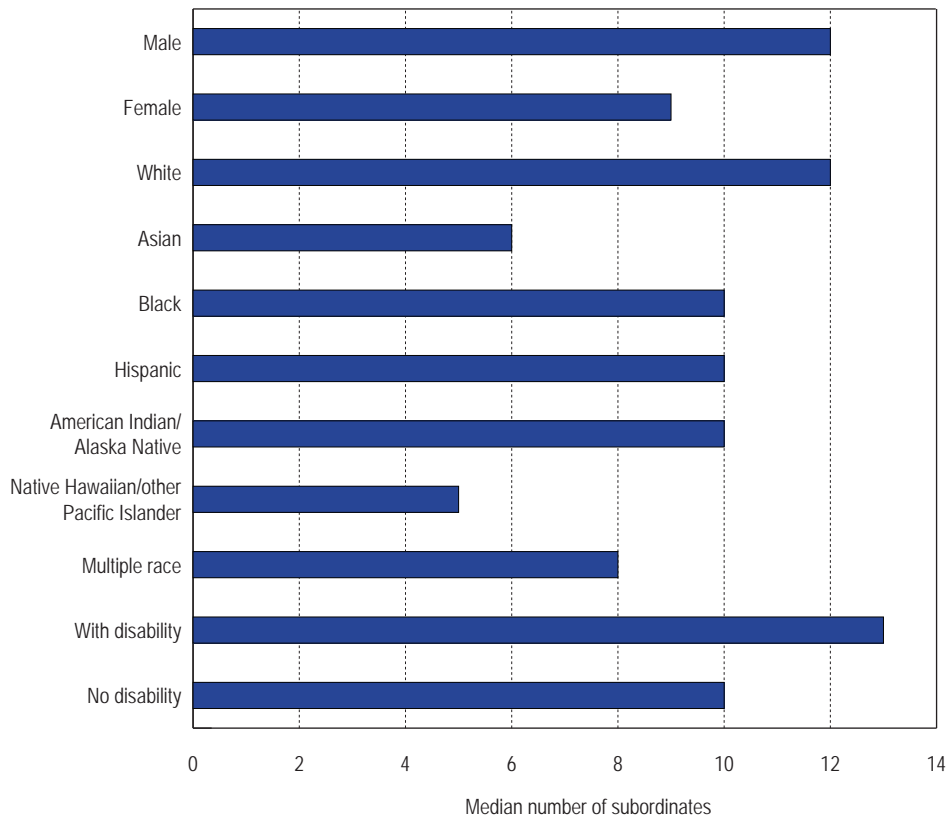
SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Substantial percentages of some doctoral S&E faculty were born outside the United States.

- A majority of Asian (90 percent) and Native Hawaiian/other Pacific Islander (60 percent), and 40 percent of Hispanic doctoral S&E faculty were born outside the United States.
- More than 80 percent of white, American Indian/Alaska Native, and multiple race doctoral S&E faculty were born in the United States.



FIGURE H-7. Median number of subordinates of scientists and engineers employed in business or industry, by sex, race/ethnicity, and disability status: 2003



NOTE: Includes only those with supervisory status.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Among supervisory scientists and engineers in business or industry, minorities, women, and those without disabilities have fewer subordinates than do whites, men, or those with disabilities.

- Men, on average, have 12 subordinates, compared to 9 for women.
- Asians and Native Hawaiians/other Pacific Islanders, have the fewest subordinates, 6 and 5, respectively, compared with 10 for blacks, Hispanics, and American Indians/Alaska Natives, and 12 for whites.
- Scientists and engineers with disabilities have, on average, 13 subordinates, compared with 10 for those without disabilities.
- Age differences are likely to account for some of these differences.

TABLE A-2. Resident population of United States, by race/ethnicity and age: 2004

Race/ethnicity	All residents	Age (years)							
		5-13	14-17	18-24	16 and older	18 and older	15-44	65 and older	85 and older
Number									
All races/ethnicities	293,655,404	36,375,652	16,831,078	29,245,102	228,621,674	220,377,406	125,841,694	36,293,985	4,859,631
Non-Hispanic, one race									
White	197,840,821	21,450,256	10,430,647	18,049,384	159,866,115	154,713,671	79,635,234	29,732,252	4,167,902
Asian	12,068,424	1,347,857	607,360	1,202,602	9,610,615	9,309,853	5,986,777	1,037,706	96,510
Native Hawaiian/Pacific Islander	398,161	57,759	27,062	50,542	299,513	286,207	203,013	25,337	2,301
Black/African American	35,963,702	5,379,829	2,533,678	4,111,917	26,358,933	25,140,690	16,532,262	2,974,370	343,598
American Indian/Alaska Native	2,206,748	332,519	166,032	271,327	1,617,621	1,536,121	1,029,968	157,927	16,446
Two or more races, non-Hispanic	3,855,478	881,774	320,260	471,255	2,262,791	2,110,414	1,579,859	201,406	22,654
Hispanic/Latino	41,322,070	6,925,658	2,746,039	5,088,075	28,606,086	27,280,450	20,874,581	2,164,987	210,220
Non-Hispanic, one or more races <sup>a</sup>									
White	201,148,336	22,243,665	10,712,907	18,451,764	161,732,105	156,445,711	80,952,081	29,899,237	4,186,948
Asian	13,529,769	1,677,204	732,741	1,397,741	10,480,158	10,119,614	6,654,092	1,093,653	102,107
Native Hawaiian/Pacific Islander	802,794	132,310	59,078	106,994	589,313	560,514	405,442	49,478	4,966
Black/African American	37,426,144	5,815,428	2,662,744	4,275,623	26,992,077	25,714,326	17,033,153	3,017,336	349,035
American Indian/Alaska Native	3,573,949	534,452	265,277	437,859	2,679,799	2,549,235	1,639,045	288,424	31,406
Percent									
All races/ethnicities	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non-Hispanic, one race									
White	67.4	59.0	62.0	61.7	69.9	70.2	63.3	81.9	85.8
Asian	4.1	3.7	3.6	4.1	4.2	4.2	4.8	2.9	2.0
Native Hawaiian/Pacific Islander	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0
Black/African American	12.2	14.8	15.1	14.1	11.5	11.4	13.1	8.2	7.1
American Indian/Alaska Native	0.8	0.9	1.0	0.9	0.7	0.7	0.8	0.4	0.3
Two or more races, non-Hispanic	1.3	2.4	1.9	1.6	1.0	1.0	1.3	0.6	0.5
Hispanic/Latino	14.1	19.0	16.3	17.4	12.5	12.4	16.6	6.0	4.3
Non-Hispanic, one or more races <sup>a</sup>									
White	68.5	61.1	63.6	63.1	70.7	71.0	64.3	82.4	86.2
Asian	4.6	4.6	4.4	4.8	4.6	4.6	5.3	3.0	2.1
Native Hawaiian/Pacific Islander	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.1
Black/African American	12.7	16.0	15.8	14.6	11.8	11.7	13.5	8.3	7.2
American Indian/Alaska Native	1.2	1.5	1.6	1.5	1.2	1.2	1.3	0.8	0.6

<sup>a</sup> In combination with one or more other races listed. Individuals may report more than one race.

NOTE: Age categories drawn from published Census tables.

SOURCE: U.S. Census Bureau, Population Division, NC-EST2004-all data: U.S. Population estimates by Age, Sex, Race and Hispanic Origin: July 1, 2004.

TABLE B-1. Undergraduate enrollment at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	12,458,456	12,750,061	13,435,923	13,532,275	14,083,538	14,200,204	14,424,448
White	8,684,498	8,303,212	8,659,934	8,561,393	8,794,221	8,849,625	8,894,602
Asian/Pacific Islander	745,299	732,167	791,431	810,599	849,951	845,542	865,669
Black	1,382,028	1,362,622	1,505,216	1,524,759	1,615,596	1,666,483	1,716,696
Hispanic	1,253,807	1,233,658	1,418,154	1,479,485	1,560,538	1,594,700	1,656,529
American Indian/Alaska Native	127,191	122,445	128,716	130,488	136,510	141,263	143,024
Other or unknown race/ethnicity	NA	757,037	649,391	723,108	816,179	795,857	844,641
Temporary resident	265,633	238,920	283,081	302,443	310,543	306,734	303,287
Female	6,990,620	7,191,871	7,418,668	7,639,293	7,990,908	8,113,132	8,251,480
White	4,825,977	4,628,298	4,707,602	4,768,735	4,916,439	4,968,059	4,992,423
Asian/Pacific Islander	385,372	382,966	414,678	430,483	453,553	455,594	467,847
Black	860,908	857,208	928,866	967,782	1,031,739	1,072,135	1,106,821
Hispanic	718,065	711,276	808,648	857,372	910,648	941,667	979,370
American Indian/Alaska Native	74,540	72,395	75,652	78,303	82,291	86,410	87,004
Other or unknown race/ethnicity	NA	427,983	347,413	390,478	442,574	435,250	463,040
Temporary resident	125,758	111,745	135,809	146,140	153,664	154,017	154,975
Male	5,467,836	5,558,190	6,017,255	5,892,982	6,092,630	6,087,072	6,172,968
White	3,858,521	3,674,914	3,952,332	3,792,658	3,877,782	3,881,566	3,902,179
Asian/Pacific Islander	359,927	349,201	376,753	380,116	396,398	389,948	397,822
Black	521,120	505,414	576,350	556,977	583,857	594,348	609,875
Hispanic	535,742	522,382	609,506	622,113	649,890	653,033	677,159
American Indian/Alaska Native	52,651	50,050	53,064	52,185	54,219	54,853	56,020
Other or unknown race/ethnicity	NA	329,054	301,978	332,630	373,605	360,607	381,601
Temporary resident	139,875	127,175	147,272	156,303	156,879	152,717	148,312
Full time	7,433,839	7,563,837	7,868,117	8,238,951	8,621,417	8,861,940	9,050,853
White	5,215,055	5,127,987	5,218,794	5,390,022	5,569,647	5,708,833	5,775,988
Asian/Pacific Islander	452,629	451,912	467,236	489,698	514,704	523,936	537,188
Black	812,110	809,180	840,272	895,346	951,951	998,918	1,030,216
Hispanic	673,976	671,889	722,012	767,268	811,731	855,087	891,142
American Indian/Alaska Native	72,563	71,132	70,723	74,439	78,814	84,004	85,404
Other or unknown race/ethnicity	NA	239,148	324,727	381,849	447,430	444,397	487,045
Temporary resident	207,506	192,589	224,353	240,329	247,140	246,765	243,870
Female	4,054,682	4,136,520	4,323,326	4,531,570	4,753,442	4,904,754	5,019,762
White	2,802,244	2,764,461	2,824,564	2,915,844	3,017,601	3,098,617	3,136,210
Asian/Pacific Islander	231,388	233,583	244,411	256,531	269,692	276,134	283,331
Black	495,764	494,942	514,856	551,501	588,379	620,165	642,180
Hispanic	389,448	388,691	421,963	448,876	475,005	503,353	524,551
American Indian/Alaska Native	41,460	40,963	41,289	43,653	46,303	50,037	50,481
Other or unknown race/ethnicity	NA	126,394	171,822	202,386	237,546	236,455	261,895
Temporary resident	94,378	87,486	104,421	112,779	118,916	119,993	121,114
Male	3,379,157	3,427,317	3,544,791	3,707,381	3,867,975	3,957,186	4,031,091
White	2,412,811	2,363,526	2,394,230	2,474,178	2,552,046	2,610,216	2,639,778
Asian/Pacific Islander	221,241	218,329	222,825	233,167	245,012	247,802	253,857
Black	316,346	314,238	325,416	343,845	363,572	378,753	388,036
Hispanic	284,528	283,198	300,049	318,392	336,726	351,734	366,591
American Indian/Alaska Native	31,103	30,169	29,434	30,786	32,511	33,967	34,923
Other or unknown race/ethnicity	NA	112,754	152,905	179,463	209,884	207,942	225,150
Temporary resident	113,128	105,103	119,932	127,550	128,224	126,772	122,756

NA not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-2. Enrollment of first-time, first-year undergraduate students at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	2,182,788	2,194,148	2,376,968	2,394,388	2,475,168	2,494,265	2,505,637
White	1,535,230	1,480,364	1,565,273	1,548,045	1,587,781	1,595,855	1,575,137
Asian/Pacific Islander	119,048	114,720	125,198	129,933	132,352	130,972	135,686
Black	257,224	256,200	280,122	285,558	304,378	313,737	319,920
Hispanic	208,962	206,921	235,138	242,413	258,153	263,707	276,017
American Indian/Alaska Native	22,546	21,170	22,394	23,103	23,779	24,712	24,113
Other or unknown race/ethnicity	NA	80,199	106,116	119,903	125,901	123,012	132,344
Temporary resident	39,778	34,574	42,727	45,433	42,824	42,270	42,420
Female	1,176,020	1,184,620	1,275,694	1,297,715	1,353,212	1,364,626	1,368,853
White	818,916	789,825	829,549	828,131	855,610	859,483	845,163
Asian/Pacific Islander	60,661	59,295	64,422	67,563	68,842	68,963	71,186
Black	149,418	150,754	163,443	168,633	180,987	186,423	190,596
Hispanic	115,998	115,388	131,604	136,766	146,027	149,943	156,550
American Indian/Alaska Native	12,498	11,741	12,683	13,041	13,510	14,186	13,673
Other or unknown race/ethnicity	NA	41,728	54,397	62,242	66,957	64,580	70,374
Temporary resident	18,529	15,889	19,596	21,339	21,279	21,048	21,311
Male	1,006,768	1,009,528	1,101,274	1,096,673	1,121,956	1,129,639	1,136,784
White	716,314	690,539	735,724	719,914	732,171	736,372	729,974
Asian/Pacific Islander	58,387	55,425	60,776	62,370	63,510	62,009	64,500
Black	107,806	105,446	116,679	116,925	123,391	127,314	129,324
Hispanic	92,964	91,533	103,534	105,647	112,126	113,764	119,467
American Indian/Alaska Native	10,048	9,429	9,711	10,062	10,269	10,526	10,440
Other or unknown race/ethnicity	NA	38,471	51,719	57,661	58,944	58,432	61,970
Temporary resident	21,249	18,685	23,131	24,094	21,545	21,222	21,109
Full time	1,714,251	1,759,875	1,850,185	1,909,576	1,976,669	2,019,262	2,044,074
White	1,218,565	1,208,675	1,245,642	1,265,978	1,301,363	1,323,373	1,319,054
Asian/Pacific Islander	94,526	93,126	99,737	104,581	107,814	107,005	111,224
Black	196,631	198,111	208,355	218,159	230,820	242,483	248,861
Hispanic	153,383	154,084	167,164	174,847	187,393	196,178	204,470
American Indian/Alaska Native	16,522	15,973	16,596	17,466	17,964	19,218	19,088
Other or unknown race/ethnicity	NA	59,002	75,678	89,234	94,243	94,682	104,565
Temporary resident	34,624	30,904	37,013	39,311	37,072	36,323	36,812
Female	919,858	946,154	995,634	1,027,170	1,070,251	1,093,934	1,107,308
White	645,870	641,544	661,923	671,774	694,002	705,232	701,386
Asian/Pacific Islander	48,627	48,433	51,857	54,656	56,272	56,244	58,271
Black	114,102	116,086	122,133	127,820	135,763	142,829	147,051
Hispanic	86,437	86,956	95,219	99,677	106,814	112,088	116,588
American Indian/Alaska Native	9,012	8,812	9,281	9,815	10,092	10,849	10,739
Other or unknown race/ethnicity	NA	30,376	38,516	45,221	49,144	48,966	55,092
Temporary resident	15,810	13,947	16,705	18,207	18,164	17,726	18,181
Male	794,393	813,721	854,551	882,406	906,418	925,328	936,766
White	572,695	567,131	583,719	594,204	607,361	618,141	617,668
Asian/Pacific Islander	45,899	44,693	47,880	49,925	51,542	50,761	52,953
Black	82,529	82,025	86,222	90,339	95,057	99,654	101,810
Hispanic	66,946	67,128	71,945	75,170	80,579	84,090	87,882
American Indian/Alaska Native	7,510	7,161	7,315	7,651	7,872	8,369	8,349
Other or unknown race/ethnicity	NA	28,626	37,162	44,013	45,099	45,716	49,473
Temporary resident	18,814	16,957	20,308	21,104	18,908	18,597	18,631

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-3. Undergraduate enrollment at 2-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	5,275,828	5,461,849	5,952,854	5,835,309	6,141,433	6,105,211	6,183,174
White	3,556,108	3,324,918	3,676,724	3,506,826	3,644,457	3,626,485	3,635,590
Asian/Pacific Islander	334,494	333,577	376,625	380,453	402,192	386,918	394,444
Black	612,560	597,564	711,182	697,022	755,242	774,783	793,079
Hispanic	632,410	619,177	759,213	788,706	837,726	836,109	871,303
American Indian/Alaska Native	64,042	61,124	66,394	66,420	69,699	70,149	71,103
Other or unknown race/ethnicity	NA	474,619	279,117	301,011	332,535	315,665	327,626
Temporary resident	76,214	50,870	83,599	94,871	99,582	95,102	90,029
Female	3,026,540	3,155,741	3,261,910	3,352,149	3,560,740	3,585,753	3,636,523
White	2,029,622	1,906,922	1,977,338	1,996,530	2,090,450	2,100,327	2,107,121
Asian/Pacific Islander	173,596	176,010	196,995	203,902	216,839	211,387	216,616
Black	383,525	381,314	432,547	448,813	491,698	511,395	523,792
Hispanic	360,851	355,614	425,148	452,275	486,401	493,256	514,592
American Indian/Alaska Native	38,047	36,873	39,229	40,399	42,626	43,539	44,170
Other or unknown race/ethnicity	NA	272,540	146,403	159,632	178,776	173,583	180,045
Temporary resident	40,899	26,468	44,250	50,598	53,950	52,266	50,187
Male	2,249,288	2,306,108	2,690,944	2,483,160	2,580,693	2,519,458	2,546,651
White	1,526,486	1,417,996	1,699,386	1,510,296	1,554,007	1,526,158	1,528,469
Asian/Pacific Islander	160,898	157,567	179,630	176,551	185,353	175,531	177,828
Black	229,035	216,250	278,635	248,209	263,544	263,388	269,287
Hispanic	271,559	263,563	334,065	336,431	351,325	342,853	356,711
American Indian/Alaska Native	25,995	24,251	27,165	26,021	27,073	26,610	26,933
Other or unknown race/ethnicity	NA	202,079	132,714	141,379	153,759	142,082	147,581
Temporary resident	35,315	24,402	39,349	44,273	45,632	42,836	39,842
Full time	1,904,441	1,914,481	2,008,860	2,157,210	2,333,018	2,412,411	2,448,916
White	1,267,211	1,226,939	1,245,236	1,316,471	1,408,972	1,459,031	1,474,874
Asian/Pacific Islander	117,429	123,880	125,544	132,118	142,254	142,069	142,584
Black	236,513	233,895	244,454	271,175	303,654	322,783	328,116
Hispanic	214,204	214,866	237,904	257,525	279,264	292,299	303,624
American Indian/Alaska Native	25,491	25,132	24,314	26,550	28,714	30,464	31,061
Other or unknown race/ethnicity	NA	59,367	78,587	92,414	104,885	103,962	112,862
Temporary resident	43,593	30,402	52,821	60,957	65,275	61,803	55,795
Female	1,058,961	1,059,867	1,113,159	1,195,326	1,299,519	1,353,640	1,378,501
White	692,025	667,932	675,851	713,265	766,681	797,567	808,768
Asian/Pacific Islander	58,665	62,935	64,653	67,781	72,815	73,051	73,357
Black	146,193	144,579	151,093	169,460	191,396	205,703	209,197
Hispanic	125,105	124,044	139,615	150,376	162,881	171,695	177,682
American Indian/Alaska Native	14,960	14,972	14,794	16,063	17,363	18,539	18,997
Other or unknown race/ethnicity	NA	30,469	40,363	47,074	54,383	54,738	60,865
Temporary resident	22,013	14,936	26,790	31,307	34,000	32,347	29,635
Male	845,480	854,614	895,701	961,884	1,033,499	1,058,771	1,070,415
White	575,186	559,007	569,385	603,206	642,291	661,464	666,106
Asian/Pacific Islander	58,764	60,945	60,891	64,337	69,439	69,018	69,227
Black	90,320	89,316	93,361	101,715	112,258	117,080	118,919
Hispanic	89,099	90,822	98,289	107,149	116,383	120,604	125,942
American Indian/Alaska Native	10,531	10,160	9,520	10,487	11,351	11,925	12,064
Other or unknown race/ethnicity	NA	28,898	38,224	45,340	50,502	49,224	51,997
Temporary resident	21,580	15,466	26,031	29,650	31,275	29,456	26,160

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-4. Undergraduate enrollment at 4-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	7,182,628	7,288,212	7,483,069	7,696,966	7,942,105	8,094,993	8,241,274
White	5,128,390	4,978,294	4,983,210	5,054,567	5,149,764	5,223,140	5,259,012
Asian/Pacific Islander	410,805	398,590	414,806	430,146	447,759	458,624	471,225
Black	769,468	765,058	794,034	827,737	860,354	891,700	923,617
Hispanic	621,397	614,481	658,941	690,779	722,812	758,591	785,226
American Indian/Alaska Native	63,149	61,321	62,322	64,068	66,811	71,114	71,921
Other or unknown race/ethnicity	NA	282,418	370,274	422,097	483,644	480,192	517,015
Temporary resident	189,419	188,050	199,482	207,572	210,961	211,632	213,258
Female	3,964,080	4,036,130	4,156,758	4,287,144	4,430,168	4,527,379	4,614,957
White	2,796,355	2,721,376	2,730,264	2,772,205	2,825,989	2,867,732	2,885,302
Asian/Pacific Islander	211,776	206,956	217,683	226,581	236,714	244,207	251,231
Black	477,383	475,894	496,319	518,969	540,041	560,740	583,029
Hispanic	357,214	355,662	383,500	405,097	424,247	448,411	464,778
American Indian/Alaska Native	36,493	35,522	36,423	37,904	39,665	42,871	42,834
Other or unknown race/ethnicity	NA	155,443	201,010	230,846	263,798	261,667	282,995
Temporary resident	84,859	85,277	91,559	95,542	99,714	101,751	104,788
Male	3,218,548	3,252,082	3,326,311	3,409,822	3,511,937	3,567,614	3,626,317
White	2,332,035	2,256,918	2,252,946	2,282,362	2,323,775	2,355,408	2,373,710
Asian/Pacific Islander	199,029	191,634	197,123	203,565	211,045	214,417	219,994
Black	292,085	289,164	297,715	308,768	320,313	330,960	340,588
Hispanic	264,183	258,819	275,441	285,682	298,565	310,180	320,448
American Indian/Alaska Native	26,656	25,799	25,899	26,164	27,146	28,243	29,087
Other or unknown race/ethnicity	NA	126,975	169,264	191,251	219,846	218,525	234,020
Temporary resident	104,560	102,773	107,923	112,030	111,247	109,881	108,470
Full time	5,529,398	5,649,356	5,859,257	6,081,741	6,288,399	6,449,529	6,601,937
White	3,947,844	3,901,048	3,973,558	4,073,551	4,160,675	4,249,802	4,301,114
Asian/Pacific Islander	335,200	328,032	341,692	357,580	372,450	381,867	394,604
Black	575,597	575,285	595,818	624,171	648,297	676,135	702,100
Hispanic	459,772	457,023	484,108	509,743	532,467	562,788	587,518
American Indian/Alaska Native	47,072	46,000	46,409	47,889	50,100	53,540	54,343
Other or unknown race/ethnicity	NA	179,781	246,140	289,435	342,545	340,435	374,183
Temporary resident	163,913	162,187	171,532	179,372	181,865	184,962	188,075
Female	2,995,721	3,076,653	3,210,167	3,336,244	3,453,923	3,551,114	3,641,261
White	2,110,219	2,096,529	2,148,713	2,202,579	2,250,920	2,301,050	2,327,442
Asian/Pacific Islander	172,723	170,648	179,758	188,750	196,877	203,083	209,974
Black	349,571	350,363	363,763	382,041	396,983	414,462	432,983
Hispanic	264,343	264,647	282,348	298,500	312,124	331,658	346,869
American Indian/Alaska Native	26,500	25,991	26,495	27,590	28,940	31,498	31,484
Other or unknown race/ethnicity	NA	95,925	131,459	155,312	183,163	181,717	201,030
Temporary resident	72,365	72,550	77,631	81,472	84,916	87,646	91,479
Male	2,533,677	2,572,703	2,649,090	2,745,497	2,834,476	2,898,415	2,960,676
White	1,837,625	1,804,519	1,824,845	1,870,972	1,909,755	1,948,752	1,973,672
Asian/Pacific Islander	162,477	157,384	161,934	168,830	175,573	178,784	184,630
Black	226,026	224,922	232,055	242,130	251,314	261,673	269,117
Hispanic	195,429	192,376	201,760	211,243	220,343	231,130	240,649
American Indian/Alaska Native	20,572	20,009	19,914	20,299	21,160	22,042	22,859
Other or unknown race/ethnicity	NA	83,856	114,681	134,123	159,382	158,718	173,153
Temporary resident	91,548	89,637	93,901	97,900	96,949	97,316	96,596

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-5. Undergraduate enrollment status, by sex, race/ethnicity, citizenship, institutional control, and enrollment status: 2004

Sex, race/ethnicity, and citizenship	All institutions			Public			Private		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
All undergraduates	14,424,448	9,050,853	5,373,595	11,524,349	6,687,314	4,837,035	2,900,099	2,363,539	536,560
Female	8,251,480	5,019,762	3,231,718	6,578,978	3,677,996	2,900,982	1,672,502	1,341,766	330,736
Male	6,172,968	4,031,091	2,141,877	4,945,371	3,009,318	1,936,053	1,227,597	1,021,773	205,824
White	8,894,602	5,775,988	3,118,614	7,144,996	4,319,470	2,825,526	1,749,606	1,456,518	293,088
Female	4,992,423	3,136,210	1,856,213	4,000,495	2,323,605	1,676,890	991,928	812,605	179,323
Male	3,902,179	2,639,778	1,262,401	3,144,501	1,995,865	1,148,636	757,678	643,913	113,765
Asian/Pacific Islander	865,669	537,188	328,481	738,155	426,867	311,288	127,514	110,321	17,193
Female	467,847	283,331	184,516	396,227	221,359	174,868	71,620	61,972	9,648
Male	397,822	253,857	143,965	341,928	205,508	136,420	55,894	48,349	7,545
Black	1,716,696	1,030,216	686,480	1,374,769	770,665	604,104	341,927	259,551	82,376
Female	1,106,821	642,180	464,641	887,087	479,078	408,009	219,734	163,102	56,632
Male	609,875	388,036	221,839	487,682	291,587	196,095	122,193	96,449	25,744
Hispanic	1,656,529	891,142	765,387	1,366,228	661,264	704,964	290,301	229,878	60,423
Female	979,370	524,551	454,819	806,949	387,674	419,275	172,421	136,877	35,544
Male	677,159	366,591	310,568	559,279	273,590	285,689	117,880	93,001	24,879
American Indian/Alaska Native	143,024	85,404	57,620	123,817	70,526	53,291	19,207	14,878	4,329
Female	87,004	50,481	36,523	75,538	41,726	33,812	11,466	8,755	2,711
Male	56,020	34,923	21,097	48,279	28,800	19,479	7,741	6,123	1,618
Other or unknown race/ethnicity	844,641	487,045	357,596	568,550	282,948	285,602	276,091	204,097	71,994
Female	463,040	261,895	201,145	306,339	148,252	158,087	156,701	113,643	43,058
Male	381,601	225,150	156,451	262,211	134,696	127,515	119,390	90,454	28,936
Temporary resident	303,287	243,870	59,417	207,834	155,574	52,260	95,453	88,296	7,157
Female	154,975	121,114	33,861	106,343	76,302	30,041	48,632	44,812	3,820
Male	148,312	122,756	25,556	101,491	79,272	22,219	46,821	43,484	3,337

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 2004.

TABLE B-8. Intentions of freshmen to major in S&E fields, by race/ethnicity and sex: 2004  
(Percent)

Race/ethnicity and sex	All S&E majors	Biological/ agricultural sciences	Computer sciences	Engineering	Mathematics/ statistics	Physical sciences	Social/ behavioral sciences
All races/ethnicities	33.1	8.3	2.0	9.6	0.7	2.3	10.2
Female	26.3	9.0	0.4	2.9	0.6	1.9	11.5
Male	40.8	7.4	4.1	17.9	1.0	2.9	7.5
White	30.1	7.0	1.9	9.0	0.8	2.3	9.1
Female	23.9	7.7	0.3	2.7	0.7	1.9	10.6
Male	38.7	6.4	3.9	17.0	1.0	3.0	7.4
Asian	45.5	16.1	2.2	15.1	0.9	2.4	8.8
Female	37.6	18.0	0.6	5.6	0.8	2.0	10.6
Male	54.3	14.1	4.1	25.8	1.0	2.6	6.7
Black	34.3	9.5	3.3	7.7	0.5	1.8	11.5
Female	31.9	10.9	1.5	2.9	0.4	1.9	14.3
Male	38.2	7.5	6.2	15.1	0.6	1.7	7.1
Hispanic of Mexican/Chicano/Puerto Rican descent	37.2	9.3	2.2	10.8	0.7	1.6	12.6
Female	31.7	10.4	0.6	3.1	0.7	1.3	15.6
Male	45.0	7.9	4.5	21.0	0.8	2.1	8.7
Other Hispanic	38.3	9.1	1.8	10.2	0.9	1.9	14.4
Female	33.8	10.4	0.7	3.4	0.7	1.6	17.0
Male	45.1	7.4	3.4	20.0	1.1	2.7	10.5
American Indian	33.8	8.6	2.2	7.8	0.6	2.5	12.1
Female	29.4	9.0	0.5	2.9	0.5	2.1	14.4
Male	40.7	8.2	4.7	15.2	0.7	3.2	8.7

NOTE: Includes first-year students at all 4-year colleges. Race/ethnicity categories are those used in the survey's data collection.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman, special tabulations (Los Angeles, CA, 2005).



TABLE B-9. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 1995–2005

Year and status	All		Number						
	undergraduates	Female	Male	White	Asian	Black	Hispanic	Native American	Foreign national
All enrolled									
1995	363,315	67,286	296,029	249,896	38,329	25,569	25,998	2,103	21,420
1996	356,177	67,618	288,559	243,270	37,873	24,922	26,483	2,396	21,233
1997	365,358	70,765	294,593	246,950	39,475	24,809	30,580	2,422	21,122
1998	366,991	72,393	294,598	248,439	40,523	25,699	28,802	2,418	21,110
1999	361,395	71,376	290,019	243,560	39,891	25,419	29,111	2,396	21,018
2000	390,803	76,027	314,776	263,931	44,652	26,096	31,107	2,385	22,632
2001	409,557	78,468	331,089	275,248	47,937	27,442	31,482	2,458	24,990
2002	421,178	77,952	343,226	286,246	49,696	26,433	33,311	2,362	23,130
2003	421,791	75,934	345,857	284,498	49,602	25,986	35,230	2,425	24,050
2004	419,387	74,139	345,248	284,610	47,872	25,313	35,060	2,458	24,074
2005	409,326	70,579	338,747	282,421	43,385	24,343	35,198	2,295	21,684
Full-time, first-year undergraduate									
1995	86,299	17,197	69,102	59,864	7,767	7,890	6,500	601	3,677
1996	85,375	17,000	68,375	58,929	7,997	7,482	6,602	656	3,709
1997	90,882	17,943	72,939	61,882	9,125	7,403	7,757	688	4,027
1998	94,909	18,628	76,281	65,578	9,509	8,028	7,018	719	4,057
1999	93,951	18,032	75,919	64,472	9,570	7,989	7,070	676	4,174
2000	101,773	19,257	82,516	69,566	11,091	8,192	7,571	629	4,724
2001	106,825	19,509	87,316	72,848	11,446	8,552	7,715	663	5,601
2002	107,086	18,447	88,639	74,710	11,157	8,108	7,991	656	4,464
2003	103,834	17,047	86,787	72,471	10,421	7,619	8,403	642	4,278
2004	103,361	16,896	86,465	72,547	10,145	7,374	8,268	696	4,331
2005	100,411	16,238	84,173	70,732	9,281	7,212	8,338	623	4,225
Percent distribution									
All enrolled									
1995	100.0	18.5	81.5	68.8	10.5	7.0	7.2	0.6	5.9
1996	100.0	19.0	81.0	68.3	10.6	7.0	7.4	0.7	6.0
1997	100.0	19.4	80.6	67.6	10.8	6.8	8.4	0.7	5.8
1998	100.0	19.7	80.3	67.7	11.0	7.0	7.8	0.7	5.8
1999	100.0	19.8	80.2	67.4	11.0	7.0	8.1	0.7	5.8
2000	100.0	19.5	80.5	67.5	11.4	6.7	8.0	0.6	5.8
2001	100.0	19.2	80.8	67.2	11.7	6.7	7.7	0.6	6.1
2002	100.0	18.5	81.5	68.0	11.8	6.3	7.9	0.6	5.5
2003	100.0	18.0	82.0	67.4	11.8	6.2	8.4	0.6	5.7
2004	100.0	17.7	82.3	67.9	11.4	6.0	8.4	0.6	5.7
2005	100.0	17.2	82.8	69.0	10.6	5.9	8.6	0.6	5.3
Full-time, first-year undergraduate									
1995	100.0	19.9	80.1	69.4	9.0	9.1	7.5	0.7	4.3
1996	100.0	19.9	80.1	69.0	9.4	8.8	7.7	0.8	4.3
1997	100.0	19.7	80.3	68.1	10.0	8.1	8.5	0.8	4.4
1998	100.0	19.6	80.4	69.1	10.0	8.5	7.4	0.8	4.3
1999	100.0	19.2	80.8	68.6	10.2	8.5	7.5	0.7	4.4
2000	100.0	18.9	81.1	68.4	10.9	8.0	7.4	0.6	4.6
2001	100.0	18.3	81.7	68.2	10.7	8.0	7.2	0.6	5.2
2002	100.0	17.2	82.8	69.8	10.4	7.6	7.5	0.6	4.2
2003	100.0	16.4	83.6	69.8	10.0	7.3	8.1	0.6	4.1
2004	100.0	16.3	83.7	70.2	9.8	7.1	8.0	0.7	4.2
2005	100.0	16.2	83.8	70.4	9.2	7.2	8.3	0.6	4.2

NOTE: Race/ethnicity/citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2005* (Washington, DC, 2006).

TABLE B-10. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 2005

Sex and status	All		White	Asian	Black	Hispanic	Native American	Foreign national
	undergraduates	Total						
	Number							
All enrolled	409,326	387,642	282,421	43,385	24,343	35,198	2,295	21,684
Male	338,747	321,283	239,601	34,450	17,788	27,623	1,821	17,464
Female	70,579	66,359	42,820	8,935	6,555	7,575	474	4,220
Full time, first year	100,411	96,186	70,732	9,281	7,212	8,338	623	4,225
Male	84,173	80,725	60,608	7,550	5,389	6,692	486	3,448
Female	16,238	15,461	10,124	1,731	1,823	1,646	137	777
	Percent distribution							
All enrolled	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	82.8	82.9	84.8	79.4	73.1	78.5	79.3	80.5
Female	17.2	17.1	15.2	20.6	26.9	21.5	20.7	19.5
Full time, first year	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	83.8	83.9	85.7	81.3	74.7	80.3	78.0	81.6
Female	16.2	16.1	14.3	18.7	25.3	19.7	22.0	18.4

NOTE: Race/ethnicity/citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2005* (Washington, DC, 2006).

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	540,644	546,031	549,191	543,876	552,046	553,735	595,223	605,403	640,910
S&E	24,600	25,771	28,646	33,651	38,063	42,200	51,782	49,420	45,686
Sciences	22,552	23,883	26,539	31,921	36,272	40,553	49,966	47,280	43,614
Agricultural sciences	1,895	1,865	2,007	1,943	2,083	1,983	1,993	1,941	1,875
Biological sciences	2,074	2,181	2,176	1,468	1,519	1,519	1,783	1,749	1,985
Computer sciences	9,401	10,632	12,899	18,928	23,106	26,916	35,789	32,176	27,641
Earth, atmospheric, and ocean sciences	189	191	180	174	181	58	186	40	182
Mathematics and statistics	759	793	843	670	692	683	733	797	801
Physical sciences	1,560	1,540	1,518	1,271	1,136	1,284	1,085	1,545	1,556
Psychology	1,584	1,606	1,760	1,445	1,538	1,691	1,766	1,869	1,927
Social sciences	5,090	5,075	5,156	6,022	6,017	6,419	6,631	7,163	7,647
Engineering	2,048	1,888	2,107	1,730	1,791	1,647	1,816	2,140	2,072
Non-S&E	516,044	520,260	520,545	510,225	513,983	511,535	543,441	555,983	595,224
Engineering technologies	35,982	35,221	35,163	35,544	35,413	31,557	34,007	29,681	28,769
Other non-S&E	480,062	485,039	485,382	474,681	478,570	479,978	509,434	526,302	566,455
U.S. citizen/permanent resident									
All fields	530,622	535,432	537,146	533,982	540,911	541,689	582,148	591,222	627,194
S&E	23,862	25,012	27,693	32,827	36,980	40,825	50,243	47,859	44,368
Sciences	21,884	23,191	25,719	31,165	35,285	39,235	48,507	45,827	42,416
Agricultural sciences	1,877	1,846	1,956	1,920	2,037	1,931	1,982	1,898	1,861
Biological sciences	2,014	2,103	2,094	1,441	1,484	1,489	1,734	1,692	1,927
Computer sciences	9,157	10,370	12,564	18,462	22,460	25,932	34,689	31,184	26,902
Earth, atmospheric, and ocean sciences	186	189	180	173	177	57	186	38	182
Mathematics and statistics	711	749	794	637	650	647	687	750	741
Physical sciences	1,477	1,448	1,443	1,216	1,103	1,240	1,027	1,460	1,440
Psychology	1,552	1,567	1,702	1,423	1,513	1,655	1,723	1,826	1,889
Social sciences	4,910	4,919	4,986	5,893	5,861	6,284	6,479	6,979	7,474
Engineering	1,978	1,821	1,974	1,662	1,695	1,590	1,736	2,032	1,952
Non-S&E	506,760	510,420	509,453	501,155	503,931	500,864	531,905	543,363	582,826
Engineering technologies	35,631	34,761	34,435	35,215	34,742	31,136	33,572	29,202	28,422
Other non-S&E	471,129	475,659	475,018	465,940	469,189	469,728	498,333	514,161	554,404
White									
All fields	403,072	400,307	396,735	380,777	378,041	372,372	393,947	393,977	417,202
S&E	16,333	16,835	18,415	20,982	23,970	26,204	31,433	29,640	27,588
Sciences	14,831	15,472	16,977	19,856	22,768	25,033	30,183	28,270	26,246
Agricultural sciences	1,696	1,680	1,768	1,718	1,824	1,715	1,788	1,681	1,703
Biological sciences	1,356	1,310	1,304	930	979	1,013	1,132	1,083	1,222
Computer sciences	6,270	7,052	8,473	11,821	14,438	16,446	21,550	19,329	16,774
Earth, atmospheric, and ocean sciences	165	160	155	150	156	54	146	34	143
Mathematics and statistics	439	492	501	379	358	381	372	436	408
Physical sciences	1,018	999	952	799	753	886	686	920	936
Psychology	1,094	1,087	1,068	952	1,005	1,111	1,111	1,141	1,124
Social sciences	2,793	2,692	2,756	3,107	3,255	3,427	3,398	3,646	3,936
Engineering	1,502	1,363	1,438	1,126	1,202	1,171	1,250	1,370	1,342
Non-S&E	386,739	383,472	378,320	359,795	354,071	346,168	362,514	364,337	389,614
Engineering technologies	27,506	26,522	26,208	25,643	24,999	21,971	23,383	20,541	20,787
Other non-S&E	359,233	356,950	352,112	334,152	329,072	324,197	339,131	343,796	368,827
Asian/Pacific Islander									
All fields	22,630	23,882	23,909	25,654	25,780	28,032	28,929	28,855	29,782
S&E	1,525	1,700	1,884	2,384	2,502	2,877	3,438	3,158	2,749
Sciences	1,379	1,552	1,718	2,224	2,372	2,780	3,326	3,023	2,613
Agricultural sciences	4	4	8	19	9	9	9	18	11
Biological sciences	216	264	248	109	94	91	142	148	204
Computer sciences	516	661	820	1,381	1,651	2,026	2,465	2,004	1,509
Earth, atmospheric, and ocean sciences	2	4	3	1	0	0	5	0	2
Mathematics and statistics	104	87	100	90	106	91	102	100	95

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physical sciences	163	176	170	145	81	86	105	190	175
Psychology	57	63	53	51	53	50	74	75	72
Social sciences	317	293	316	428	378	427	424	488	545
Engineering	146	148	166	160	130	97	112	135	136
Non-S&E	21,105	22,182	22,025	23,270	23,278	25,155	25,491	25,697	27,033
Engineering technologies	1,464	1,586	1,521	1,752	1,725	1,711	1,905	1,314	1,083
Other non-S&E	19,641	20,596	20,504	21,518	21,553	23,444	23,586	24,383	25,950
Black									
All fields	49,245	51,588	52,957	55,154	57,851	58,454	66,047	66,741	72,566
S&E	2,411	2,577	2,856	3,856	4,351	4,859	6,457	5,856	5,379
Sciences	2,277	2,446	2,747	3,733	4,247	4,741	6,340	5,706	5,217
Agricultural sciences	18	11	9	18	3	14	13	18	8
Biological sciences	114	140	155	137	127	121	145	135	147
Computer sciences	1,104	1,182	1,531	2,445	3,035	3,506	4,950	4,281	3,718
Earth, atmospheric, and ocean sciences	11	9	14	13	9	1	17	0	17
Mathematics and statistics	36	37	33	36	50	27	41	36	35
Physical sciences	101	96	112	85	80	77	63	73	78
Psychology	147	125	111	135	142	140	144	158	172
Social sciences	746	846	782	864	801	855	967	1,005	1,042
Engineering	134	131	109	123	104	118	117	150	162
Non-S&E	46,834	49,011	50,101	51,298	53,500	53,595	59,590	60,885	67,187
Engineering technologies	2,989	2,982	3,156	3,321	3,372	2,795	3,280	2,536	2,602
Other non-S&E	43,845	46,029	46,945	47,977	50,128	50,800	56,310	58,349	64,585
Hispanic									
All fields	39,115	42,784	45,452	50,488	54,333	55,900	59,942	63,669	68,205
S&E	2,542	2,773	3,103	3,868	4,131	4,531	5,539	5,374	5,205
Sciences	2,410	2,661	2,907	3,690	3,945	4,402	5,388	5,106	5,004
Agricultural sciences	89	75	85	77	109	86	68	54	43
Biological sciences	221	276	289	183	220	188	216	207	227
Computer sciences	928	1,065	1,299	2,033	2,154	2,567	3,391	3,007	2,708
Earth, atmospheric, and ocean sciences	3	8	3	1	1	1	1	2	5
Mathematics and statistics	108	110	120	97	99	105	124	131	154
Physical sciences	106	102	119	106	113	98	95	133	137
Psychology	179	209	180	192	218	259	293	333	379
Social sciences	776	816	812	1,001	1,031	1,098	1,200	1,239	1,351
Engineering	132	112	196	178	186	129	151	268	201
Non-S&E	36,573	40,011	42,349	46,620	50,202	51,369	54,403	58,295	63,000
Engineering technologies	2,742	2,728	2,621	3,283	3,369	3,069	2,829	2,863	2,405
Other non-S&E	33,831	37,283	39,728	43,337	46,833	48,300	51,574	55,432	60,595
American Indian/Alaskan Native									
All fields	5,221	5,520	6,161	5,697	5,758	5,965	6,515	6,886	7,059
S&E	466	455	500	525	501	577	679	709	686
Sciences	455	430	478	508	485	562	660	675	658
Agricultural sciences	42	54	64	67	48	49	53	58	55
Biological sciences	42	46	37	37	32	41	27	45	44
Computer sciences	129	120	148	188	208	217	326	289	237
Earth, atmospheric, and ocean sciences	0	1	3	0	0	0	2	0	0
Mathematics and statistics	9	2	13	7	12	7	13	10	13
Physical sciences	26	20	30	13	17	17	16	24	24
Psychology	42	38	37	38	34	32	31	36	56
Social sciences	165	149	146	158	134	199	192	213	229
Engineering	11	25	22	17	16	15	19	34	28
Non-S&E	4,755	5,065	5,661	5,172	5,257	5,388	5,836	6,177	6,373
Engineering technologies	269	236	286	273	253	239	314	341	278
Other non-S&E	4,486	4,829	5,375	4,899	5,004	5,149	5,522	5,836	6,095

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Other or unknown race/ethnicity									
All fields	11,339	11,351	11,932	16,212	19,148	20,966	26,768	31,094	32,380
S&E	585	672	935	1,212	1,525	1,777	2,697	3,122	2,761
Sciences	532	630	892	1,154	1,468	1,717	2,610	3,047	2,678
Agricultural sciences	28	22	22	21	44	58	51	69	41
Biological sciences	65	67	61	45	32	35	72	74	83
Computer sciences	210	290	293	594	974	1,170	2,007	2,274	1,956
Earth, atmospheric, and ocean sciences	5	7	2	8	11	1	15	2	15
Mathematics and statistics	15	21	27	28	25	36	35	37	36
Physical sciences	63	55	60	68	59	76	62	120	90
Psychology	33	45	253	55	61	63	70	83	86
Social sciences	113	123	174	335	262	278	298	388	371
Engineering	53	42	43	58	57	60	87	75	83
Non-S&E	10,754	10,679	10,997	15,000	17,623	19,189	24,071	27,972	29,619
Engineering technologies	661	707	643	943	1,024	1,351	1,861	1,607	1,267
Other non-S&E	10,093	9,972	10,354	14,057	16,599	17,838	22,210	26,365	28,352
Temporary resident									
All fields	10,022	10,599	12,045	9,894	11,135	12,046	13,075	14,181	13,716
S&E	738	759	953	824	1,083	1,375	1,539	1,561	1,318
Sciences	668	692	820	756	987	1,318	1,459	1,453	1,198
Agricultural sciences	18	19	51	23	46	52	11	43	14
Biological sciences	60	78	82	27	35	30	49	57	58
Computer sciences	244	262	335	466	646	984	1,100	992	739
Earth, atmospheric, and ocean sciences	3	2	0	1	4	1	0	2	0
Mathematics and statistics	48	44	49	33	42	36	46	47	60
Physical sciences	83	92	75	55	33	44	58	85	116
Psychology	32	39	58	22	25	36	43	43	38
Social sciences	180	156	170	129	156	135	152	184	173
Engineering	70	67	133	68	96	57	80	108	120
Non-S&E	9,284	9,840	11,092	9,070	10,052	10,671	11,536	12,620	12,398
Engineering technologies	351	460	728	329	671	421	435	479	347
Other non-S&E	8,933	9,380	10,364	8,741	9,381	10,250	11,101	12,141	12,051

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-3. S&E and S&E technologies associate's degrees, by sex, citizenship, race/ethnicity, and field: 2005

Sex, citizenship, and race/ethnicity	All fields	Sciences											S&E technologies			
		Engi- neering	S&E	All Agricultural sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathe- matics and statistics	Physical sciences	Psy- chology	Social sciences	All S&E tech- nologies	Engi- neering	Health	Other
All degrees	640,910	2,072	45,686	43,614	1,875	1,985	27,641	182	801	1,556	1,927	7,647	77,413	28,769	46,191	2,453
Female	395,233	288	18,343	18,055	641	1,311	8,287	65	275	624	1,484	5,368	43,228	4,504	38,068	656
Male	245,677	1,784	27,343	25,559	1,234	674	19,354	117	526	932	443	2,279	34,185	24,265	8,123	1,797
U.S. citizen/permanent resident	627,194	1,952	44,368	42,416	1,861	1,927	26,902	182	741	1,440	1,889	7,474	76,580	28,422	45,725	2,433
Female	386,874	270	17,820	17,550	635	1,271	8,026	65	257	585	1,455	5,256	42,782	4,415	37,723	644
Male	240,320	1,682	26,548	24,866	1,226	656	18,876	117	484	855	434	2,218	33,798	24,007	8,002	1,789
White	417,202	1,342	27,588	26,246	1,703	1,222	16,774	143	408	936	1,124	3,936	55,099	20,787	32,577	1,735
Female	252,391	149	10,064	9,915	567	795	4,424	47	139	360	867	2,716	30,584	3,025	27,108	451
Male	164,811	1,193	17,524	16,331	1,136	427	12,350	96	269	576	257	1,220	24,515	17,762	5,469	1,284
Asian/Pacific Islander	29,782	136	2,749	2,613	11	204	1,509	2	95	175	72	545	2,647	1,083	1,489	75
Female	17,766	31	1,192	1,161	6	147	480	0	37	78	59	354	1,245	154	1,052	39
Male	12,016	105	1,557	1,452	5	57	1,029	2	58	97	13	191	1,402	929	437	36
Black	72,566	162	5,379	5,217	8	147	3,718	17	35	78	172	1,042	8,365	2,602	5,449	314
Female	49,824	24	2,829	2,805	3	101	1,698	12	11	42	136	802	5,223	587	4,552	84
Male	22,742	138	2,550	2,412	5	46	2,020	5	24	36	36	240	3,142	2,015	897	230
Hispanic	68,205	201	5,205	5,004	43	227	2,708	5	154	137	379	1,351	6,638	2,405	4,075	158
Female	43,908	48	2,423	2,375	23	144	845	2	51	63	286	961	3,711	372	3,298	41
Male	24,297	153	2,782	2,629	20	83	1,863	3	103	74	93	390	2,927	2,033	777	117
American Indian/Alaskan Native	7,059	28	686	658	55	44	237	0	13	24	56	229	732	278	437	17
Female	4,751	5	400	395	19	29	109	0	6	14	44	174	436	61	372	3
Male	2,308	23	286	263	36	15	128	0	7	10	12	55	296	217	65	14
Other or unknown race/ethnicity	32,380	83	2,761	2,678	41	83	1,956	15	36	90	86	371	3,099	1,267	1,698	134
Female	18,234	13	912	899	17	55	470	4	13	28	63	249	1,583	216	1,341	26
Male	14,146	70	1,849	1,779	24	28	1,486	11	23	62	23	122	1,516	1,051	357	108
Temporary resident	13,716	120	1,318	1,198	14	58	739	0	60	116	38	173	833	347	466	20
Female	8,359	18	523	505	6	40	261	0	18	39	29	112	446	89	345	12
Male	5,357	102	795	693	8	18	478	0	42	77	9	61	387	258	121	8

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2005.

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	1,179,815	1,186,589	1,199,579	1,253,121	1,257,648	1,305,730	1,359,843	1,407,009	1,437,200
S&E	384,674	388,482	390,618	398,622	400,206	415,611	441,087	455,848	466,003
Sciences	321,560	326,130	329,704	339,086	340,948	354,972	377,314	391,173	399,870
Agricultural sciences	16,388	17,361	17,967	18,244	17,467	17,360	17,693	17,041	17,111
Biological sciences	62,081	65,139	67,112	64,904	62,089	61,768	63,582	64,762	67,982
Computer sciences	24,545	25,393	27,674	37,388	43,184	49,135	56,329	57,405	50,564
Earth, atmospheric, and ocean sciences	4,457	4,466	4,321	4,047	3,968	3,984	3,949	3,903	3,959
Atmospheric sciences	434	431	443	490	456	525	562	572	677
Earth sciences	3,838	3,830	3,665	3,359	3,334	3,234	3,252	3,170	3,146
Ocean sciences	185	205	213	198	178	225	135	161	136
Mathematics and statistics	13,076	12,723	12,094	11,735	11,455	12,273	12,882	13,755	14,840
Physical sciences	15,396	15,264	15,273	14,580	14,163	14,016	14,122	14,240	15,030
Astronomy	148	140	168	160	240	276	271	292	331
Chemistry	10,713	10,926	10,873	10,390	9,822	9,448	9,332	9,305	9,937
Physics	3,703	3,393	3,455	3,362	3,457	3,651	3,922	4,156	4,210
Other	832	805	777	668	644	641	597	487	552
Psychology	73,828	74,734	74,457	74,654	74,168	77,323	79,115	82,510	85,936
Social sciences	111,789	111,050	110,806	113,534	114,454	119,113	129,642	137,557	144,448
Anthropology	6,389	6,759	6,894	7,057	6,898	7,198	7,542	7,629	7,739
Area and ethnic studies	5,197	5,257	5,441	5,617	5,561	5,844	5,745	6,242	6,611
Economics	17,896	17,701	18,244	19,400	20,377	21,827	23,871	24,933	25,164
History of science	21	31	39	92	101	103	103	140	117
Linguistics	619	577	680	727	757	861	920	1,047	1,053
Political science and public administration	39,928	37,807	36,654	36,439	36,651	38,573	43,735	47,353	51,417
Sociology	24,169	24,750	24,884	25,685	25,363	25,318	26,191	27,030	28,576
Other	17,570	18,168	17,970	18,517	18,746	19,389	21,535	23,183	23,771
Engineering	63,114	62,352	60,914	59,536	59,258	60,639	63,773	64,675	66,133
Aerospace engineering	1,642	1,290	1,247	1,267	1,498	1,747	2,017	2,318	2,384
Chemical engineering	6,708	6,977	6,721	6,219	6,088	5,946	5,545	5,185	4,889
Civil engineering	12,053	12,010	11,522	9,596	8,949	8,891	9,367	9,399	9,797
Electrical engineering	16,667	16,434	16,322	17,672	18,371	18,977	20,729	21,342	21,412
Industrial engineering	3,727	3,997	3,988	3,937	3,818	3,976	3,939	3,807	3,938
Materials engineering	1,004	1,063	1,007	972	930	933	950	865	906
Mechanical engineering	14,509	13,806	13,363	13,109	13,160	13,377	14,044	14,368	14,908
Other	6,804	6,775	6,744	6,764	6,444	6,792	7,182	7,391	7,899
Non-S&E	795,141	798,107	808,961	854,499	857,442	890,119	918,756	951,161	971,197
U.S. citizen/permanent resident									
All fields	1,142,028	1,147,815	1,160,692	1,214,326	1,218,169	1,264,606	1,317,020	1,362,834	1,392,752
S&E	369,927	373,745	375,909	383,438	384,492	399,288	423,358	437,228	447,559
Sciences	311,576	316,190	319,638	328,435	329,653	342,916	363,860	377,100	386,163
Agricultural sciences	16,118	17,108	17,674	17,986	17,219	17,098	17,423	16,792	16,837
Biological sciences	60,714	63,677	65,689	63,528	60,652	60,311	62,045	63,109	66,016
Computer sciences	22,359	23,378	25,537	34,502	39,792	45,247	51,643	52,544	46,688
Earth, atmospheric, and ocean sciences	4,403	4,388	4,239	4,001	3,919	3,925	3,892	3,853	3,879
Atmospheric sciences	433	420	439	482	454	519	554	569	667
Earth sciences	3,790	3,770	3,590	3,326	3,288	3,185	3,204	3,125	3,081
Ocean sciences	180	198	210	193	177	221	134	159	131
Mathematics and statistics	12,525	12,190	11,641	11,256	11,029	11,819	12,260	13,073	14,079

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physical sciences	14,764	14,671	14,680	14,048	13,605	13,471	13,599	13,649	14,360
Astronomy	140	132	157	156	227	260	256	282	311
Chemistry	10,298	10,530	10,488	10,046	9,487	9,105	9,006	8,955	9,539
Physics	3,510	3,217	3,277	3,202	3,275	3,484	3,754	3,967	4,009
Other	816	792	758	644	616	622	583	445	501
Psychology	72,812	73,685	73,287	73,390	72,885	75,956	77,721	81,039	84,432
Social sciences	107,881	107,093	106,891	109,724	110,552	115,089	125,277	133,041	139,872
Anthropology	6,272	6,586	6,792	6,941	6,778	7,084	7,448	7,523	7,624
Area and ethnic studies	4,994	5,059	5,264	5,439	5,394	5,684	5,585	6,078	6,448
Economics	16,109	15,877	16,461	17,709	18,553	19,923	21,823	22,763	22,964
History of science	21	31	38	91	98	101	100	140	116
Linguistics	542	491	580	644	680	780	840	973	976
Political science and public administration	38,798	36,755	35,475	35,285	35,504	37,411	42,451	46,046	50,151
Sociology	23,845	24,451	24,575	25,386	25,105	25,023	25,842	26,704	28,247
Other	17,300	17,843	17,706	18,229	18,440	19,083	21,188	22,814	23,346
Engineering	58,351	57,555	56,271	55,003	54,839	56,372	59,498	60,128	61,396
Aerospace engineering	1,519	1,161	1,110	1,146	1,350	1,625	1,857	2,144	2,213
Chemical engineering	6,139	6,406	6,214	5,774	5,664	5,499	5,186	4,817	4,478
Civil engineering	11,615	11,536	11,012	9,137	8,537	8,520	9,018	9,084	9,471
Electrical engineering	14,680	14,564	14,485	15,836	16,529	17,108	18,677	19,069	19,093
Industrial engineering	3,279	3,517	3,502	3,456	3,343	3,534	3,537	3,426	3,543
Materials engineering	975	1,035	974	935	888	904	919	836	866
Mechanical engineering	13,727	12,898	12,566	12,320	12,416	12,694	13,448	13,754	14,261
Other	6,417	6,438	6,408	6,399	6,112	6,488	6,856	6,998	7,471
Non-S&E	772,101	774,070	784,783	830,888	833,677	865,318	893,662	925,606	945,193
White									
All fields	884,128	877,759	878,018	895,129	888,412	912,956	940,495	962,887	977,279
S&E	276,786	274,800	272,561	270,416	267,848	276,379	290,306	296,576	301,172
Sciences	233,643	233,134	231,987	231,349	229,081	236,656	248,481	254,719	258,964
Agricultural sciences	14,399	15,246	15,616	15,655	14,950	14,729	14,925	14,353	14,347
Biological sciences	43,739	45,387	45,912	43,907	41,325	41,288	41,949	42,460	43,774
Computer sciences	15,577	15,846	17,069	21,719	24,491	27,506	30,458	30,357	27,615
Earth, atmospheric, and ocean sciences	4,010	3,986	3,803	3,561	3,436	3,450	3,442	3,338	3,366
Atmospheric sciences	403	390	416	437	395	467	493	508	597
Earth sciences	3,447	3,429	3,207	2,959	2,888	2,806	2,837	2,691	2,663
Ocean sciences	160	167	180	165	153	177	112	139	106
Mathematics and statistics	9,799	9,432	8,903	8,395	8,173	8,756	8,976	9,639	10,171
Physical sciences	11,078	10,934	10,763	10,096	9,812	9,701	9,934	9,833	10,296
Astronomy	107	112	127	131	185	204	212	220	234
Chemistry	7,487	7,537	7,370	6,900	6,505	6,268	6,281	6,153	6,595
Physics	2,842	2,623	2,652	2,543	2,625	2,742	2,970	3,128	3,101
Other	642	662	614	522	497	487	471	332	366
Psychology	55,905	55,346	54,225	52,397	51,562	53,324	54,676	56,515	58,043
Social sciences	79,136	76,957	75,696	75,619	75,332	77,902	84,121	88,224	91,352
Anthropology	5,045	5,225	5,383	5,378	5,222	5,380	5,592	5,496	5,583
Area and ethnic studies	2,998	3,026	2,987	2,943	2,938	3,076	2,948	3,178	3,239
Economics	11,640	11,437	11,599	12,102	12,419	13,374	14,302	14,662	14,723
History of science	18	24	33	58	57	60	68	100	86
Linguistics	373	359	397	450	499	585	603	652	637
Political science and public administration	28,933	26,770	25,624	24,976	24,963	26,162	29,547	31,681	33,838
Sociology	16,777	16,661	16,450	16,561	16,105	15,838	16,275	16,681	17,247
Other	13,352	13,455	13,223	13,151	13,129	13,427	14,786	15,774	15,999



TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Engineering	43,143	41,666	40,574	39,067	38,767	39,723	41,825	41,857	42,208
Aerospace engineering	1,172	869	877	899	1,058	1,279	1,447	1,629	1,723
Chemical engineering	4,577	4,631	4,405	4,062	4,061	3,976	3,746	3,483	3,203
Civil engineering	9,117	8,940	8,481	7,003	6,615	6,624	7,032	7,011	7,194
Electrical engineering	9,427	9,293	9,174	9,715	9,891	9,975	10,957	10,934	10,856
Industrial engineering	2,350	2,271	2,333	2,385	2,330	2,428	2,392	2,352	2,356
Materials engineering	787	813	760	741	708	712	701	614	633
Mechanical engineering	10,688	9,919	9,656	9,467	9,541	9,876	10,516	10,756	10,961
Other	5,025	4,930	4,888	4,795	4,563	4,853	5,034	5,078	5,282
Non-S&E	607,342	602,959	605,457	624,713	620,564	636,577	650,189	666,311	676,107
Asian/Pacific Islander									
All fields	63,117	67,358	69,988	75,265	75,496	79,149	83,049	86,030	90,562
S&E	30,419	32,568	34,004	35,553	36,398	37,452	39,738	41,178	43,030
Sciences	23,619	25,483	27,002	28,699	29,373	30,331	32,326	33,553	34,822
Agricultural sciences	307	396	439	454	399	411	459	415	446
Biological sciences	7,967	8,541	8,869	8,025	7,493	7,209	7,399	7,786	8,832
Computer sciences	2,454	2,803	3,220	5,401	6,326	7,207	8,073	7,462	6,075
Earth, atmospheric, and ocean sciences	93	95	92	98	86	85	73	85	86
Atmospheric sciences	9	7	5	14	14	8	9	11	15
Earth sciences	79	77	76	77	64	65	58	65	69
Ocean sciences	5	11	11	7	8	12	6	9	2
Mathematics and statistics	910	852	834	891	916	1,000	1,153	1,244	1,420
Physical sciences	1,466	1,525	1,584	1,462	1,344	1,217	1,143	1,229	1,316
Astronomy	15	7	12	9	12	24	16	18	21
Chemistry	1,172	1,280	1,337	1,208	1,126	978	893	960	1,024
Physics	236	204	208	218	184	184	204	223	236
Other	43	34	27	27	22	31	30	28	35
Psychology	3,666	4,067	4,267	4,188	4,150	4,241	4,060	4,345	4,799
Social sciences	6,756	7,204	7,697	8,180	8,659	8,961	9,966	10,987	11,848
Anthropology	316	363	404	340	332	377	396	398	424
Area and ethnic studies	621	574	676	737	714	686	671	758	875
Economics	1,994	2,154	2,430	2,774	3,082	3,235	3,708	4,007	4,003
History of science	2	4	3	12	15	20	16	14	11
Linguistics	58	62	85	72	69	73	84	105	112
Political science and public administration	2,009	2,100	2,141	2,077	2,228	2,325	2,645	2,900	3,266
Sociology	1,090	1,228	1,212	1,324	1,300	1,325	1,372	1,596	1,853
Other	666	719	746	844	919	920	1,074	1,209	1,304
Engineering	6,800	7,085	7,002	6,854	7,025	7,121	7,412	7,625	8,208
Aerospace engineering	159	118	96	98	103	128	145	186	184
Chemical engineering	735	874	897	788	702	636	563	527	486
Civil engineering	986	1,017	909	646	521	482	500	493	585
Electrical engineering	2,688	2,663	2,757	3,143	3,522	3,774	3,966	4,083	4,290
Industrial engineering	322	437	369	332	319	356	386	376	352
Materials engineering	88	84	119	91	88	85	91	95	101
Mechanical engineering	1,177	1,135	1,128	1,002	998	892	939	928	1,082
Other	645	757	727	754	772	768	822	937	1,128
Non-S&E	32,698	34,790	35,984	39,712	39,098	41,697	43,311	44,852	47,532

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
<b>Black</b>									
All fields	89,554	92,067	95,878	104,212	106,648	111,032	117,257	122,618	125,678
S&E	28,397	29,825	30,751	32,924	33,290	34,796	36,711	38,369	39,283
Sciences	25,397	26,748	27,732	29,861	30,406	31,814	33,637	35,157	36,098
Agricultural sciences	341	367	409	450	428	454	452	450	444
Biological sciences	3,812	4,124	4,553	4,739	4,693	4,634	4,878	5,038	5,051
Computer sciences	2,427	2,432	2,666	3,497	4,291	4,954	5,867	5,934	5,303
Earth, atmospheric, and ocean sciences	60	57	70	51	56	62	60	65	68
Atmospheric sciences	7	8	7	10	2	10	12	20	8
Earth sciences	48	41	60	40	52	42	43	43	54
Ocean sciences	5	8	3	1	2	10	5	2	6
Mathematics and statistics	942	1,016	966	905	808	843	790	784	855
Physical sciences	1,040	1,053	1,057	1,090	996	1,018	928	958	966
Astronomy	3	0	2	1	2	3	1	3	4
Chemistry	789	861	824	888	827	796	744	756	761
Physics	176	148	179	152	133	182	147	166	166
Other	72	44	52	49	34	37	36	33	35
Psychology	6,028	6,647	6,852	7,572	7,562	7,747	8,011	8,479	9,130
Social sciences	10,747	11,052	11,159	11,557	11,572	12,102	12,651	13,449	14,281
Anthropology	183	220	234	268	242	253	258	338	320
Area and ethnic studies	635	653	692	738	691	784	749	805	905
Economics	1,020	925	979	1,044	1,089	1,221	1,326	1,409	1,377
History of science	0	2	0	6	6	4	6	8	5
Linguistics	19	8	21	14	24	25	17	32	33
Political science and public administration	3,811	3,761	3,638	3,602	3,554	3,737	4,048	4,423	4,844
Sociology	3,560	3,851	3,944	4,097	4,200	4,168	4,214	4,227	4,542
Other	1,519	1,632	1,651	1,788	1,766	1,910	2,033	2,207	2,255
Engineering	3,000	3,077	3,019	3,063	2,884	2,982	3,074	3,212	3,185
Aerospace engineering	51	50	35	40	39	43	65	70	71
Chemical engineering	337	373	385	383	373	346	317	303	273
Civil engineering	409	403	401	403	329	317	292	320	342
Electrical engineering	1,035	1,067	1,047	1,049	1,082	1,103	1,284	1,393	1,311
Industrial engineering	238	245	262	256	237	256	274	251	296
Materials engineering	29	20	32	24	27	32	22	22	19
Mechanical engineering	632	642	548	594	515	561	471	504	537
Other	269	277	309	314	282	324	349	349	336
Non-S&E	61,157	62,242	65,127	71,288	73,358	76,236	80,546	84,249	86,395
<b>Hispanic</b>									
All fields	71,015	74,938	78,125	88,324	89,972	95,104	100,352	105,165	109,643
S&E	22,886	24,445	25,712	27,984	28,321	29,871	32,331	33,437	35,202
Sciences	19,155	20,320	21,587	23,909	24,305	25,735	27,974	28,967	30,588
Agricultural sciences	504	559	631	634	607	662	686	673	710
Biological sciences	3,531	3,795	4,283	4,446	4,547	4,367	4,840	4,601	4,814
Computer sciences	1,284	1,327	1,473	2,155	2,354	2,714	3,445	3,535	3,179
Earth, atmospheric, and ocean sciences	105	113	118	127	157	136	119	131	151
Atmospheric sciences	7	8	8	9	15	10	10	13	20
Earth sciences	91	100	98	105	130	109	103	112	121
Ocean sciences	7	5	12	13	12	17	6	6	10
Mathematics and statistics	556	560	604	599	625	672	669	676	815

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physical sciences	767	740	796	883	870	864	861	885	938
Astronomy	6	4	11	7	16	10	12	23	17
Chemistry	616	593	640	719	669	666	669	651	704
Physics	113	119	117	125	151	157	164	187	183
Other	32	24	28	32	34	31	16	24	34
Psychology	5,036	5,282	5,509	6,127	6,178	6,692	6,807	7,252	7,654
Social sciences	7,372	7,944	8,173	8,938	8,967	9,628	10,547	11,214	12,327
Anthropology	363	445	397	462	465	494	533	568	578
Area and ethnic studies	535	570	678	659	648	688	717	756	827
Economics	841	829	851	976	1,030	1,068	1,188	1,289	1,352
History of science	1	1	2	3	5	7	4	7	6
Linguistics	47	24	39	42	45	39	48	71	68
Political science and public administration	2,841	2,912	2,828	2,975	2,925	3,135	3,568	3,857	4,562
Sociology	1,685	1,908	2,081	2,317	2,291	2,440	2,555	2,665	2,874
Other	1,059	1,255	1,297	1,504	1,558	1,757	1,934	2,001	2,060
Engineering	3,731	4,125	4,125	4,075	4,016	4,136	4,357	4,470	4,614
Aerospace engineering	89	93	78	67	92	97	110	121	139
Chemical engineering	331	379	393	380	341	353	320	313	333
Civil engineering	738	874	920	762	742	761	798	836	888
Electrical engineering	1,052	1,123	1,070	1,283	1,302	1,411	1,428	1,551	1,521
Industrial engineering	316	451	450	391	356	372	364	332	364
Materials engineering	42	89	42	38	34	33	50	52	59
Mechanical engineering	849	832	866	846	880	819	950	935	962
Other	314	284	306	308	269	290	337	330	348
Non-S&E	48,129	50,493	52,413	60,340	61,651	65,233	68,021	71,728	74,441
American Indian/Alaskan Native									
All fields	6,813	7,238	7,706	8,431	8,664	8,668	9,242	9,914	9,556
S&E	2,149	2,298	2,392	2,611	2,796	2,642	2,892	3,231	3,167
Sciences	1,906	2,035	2,138	2,283	2,540	2,334	2,572	2,898	2,818
Agricultural sciences	139	146	151	190	215	158	163	187	160
Biological sciences	317	341	399	379	431	410	380	417	496
Computer sciences	89	99	112	172	271	229	263	416	249
Earth, atmospheric, and ocean sciences	23	31	25	43	35	26	24	31	25
Atmospheric sciences	1	1	0	4	5	1	4	1	1
Earth sciences	20	26	25	35	29	23	18	30	23
Ocean sciences	2	4	0	4	1	2	2	0	1
Mathematics and statistics	53	57	65	69	51	57	65	59	76
Physical sciences	81	69	81	65	73	83	94	76	103
Astronomy	0	0	0	2	2	2	4	1	3
Chemistry	57	54	64	49	47	57	71	50	65
Physics	21	11	14	12	19	21	17	20	33
Other	3	4	3	2	5	3	2	5	2
Psychology	470	496	515	518	561	542	544	596	552
Social sciences	734	796	790	847	903	829	1,039	1,116	1,157
Anthropology	75	86	80	89	93	85	111	103	98
Area and ethnic studies	62	62	75	80	106	121	128	145	134
Economics	67	68	69	71	68	65	95	108	95
History of science	0	0	0	1	0	0	0	0	0
Linguistics	3	5	10	10	2	2	9	4	12
Political science and public administration	228	253	215	231	234	241	286	352	342
Sociology	186	192	197	220	225	184	244	228	259
Other	113	130	144	145	175	131	166	176	217

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Engineering	243	263	254	328	256	308	320	333	349
Aerospace engineering	5	3	10	7	8	17	10	23	16
Chemical engineering	31	29	31	42	31	33	34	29	30
Civil engineering	59	71	62	84	65	67	67	64	73
Electrical engineering	55	50	53	81	56	70	99	88	84
Industrial engineering	8	19	15	23	17	21	12	15	27
Materials engineering	4	6	3	5	4	6	3	6	5
Mechanical engineering	57	45	47	53	51	61	58	73	72
Other	24	40	33	33	24	33	37	35	42
Non-S&E	4,664	4,940	5,314	5,820	5,868	6,026	6,350	6,683	6,389
Other or unknown race/ethnicity									
All fields	27,401	28,455	30,977	42,965	48,977	57,697	66,625	76,220	80,034
S&E	9,290	9,809	10,489	13,950	15,839	18,148	21,380	24,437	25,705
Sciences	7,856	8,470	9,192	12,334	13,948	16,046	18,870	21,806	22,873
Agricultural sciences	428	394	428	603	620	684	738	714	730
Biological sciences	1,348	1,489	1,673	2,032	2,163	2,403	2,599	2,807	3,049
Computer sciences	528	871	997	1,558	2,059	2,637	3,537	4,840	4,267
Earth, atmospheric, and ocean sciences	112	106	131	121	149	166	174	203	183
Atmospheric sciences	6	6	3	8	23	23	26	16	26
Earth sciences	105	97	124	110	125	140	145	184	151
Ocean sciences	1	3	4	3	1	3	3	3	6
Mathematics and statistics	265	273	269	397	456	491	607	671	742
Physical sciences	332	350	399	452	510	588	639	668	741
Astronomy	9	9	5	6	10	17	11	17	32
Chemistry	177	205	253	282	313	340	348	385	390
Physics	122	112	107	152	163	198	252	243	290
Other	24	24	34	12	24	33	28	23	29
Psychology	1,707	1,847	1,919	2,588	2,872	3,410	3,623	3,852	4,254
Social sciences	3,136	3,140	3,376	4,583	5,119	5,667	6,953	8,051	8,907
Anthropology	290	247	294	404	424	495	558	620	621
Area and ethnic studies	143	174	156	282	297	329	372	436	468
Economics	547	464	533	742	865	960	1,204	1,288	1,414
History of science	0	0	0	11	15	10	6	11	8
Linguistics	42	33	28	56	41	56	79	109	114
Political science and public administration	976	959	1,029	1,424	1,600	1,811	2,357	2,833	3,299
Sociology	547	611	691	867	984	1,068	1,182	1,307	1,472
Other	591	652	645	797	893	938	1,195	1,447	1,511
Engineering	1,434	1,339	1,297	1,616	1,891	2,102	2,510	2,631	2,832
Aerospace engineering	43	28	14	35	50	61	80	115	80
Chemical engineering	128	120	103	119	156	155	206	162	153
Civil engineering	306	231	239	239	265	269	329	360	389
Electrical engineering	423	368	384	565	676	775	943	1,020	1,031
Industrial engineering	45	94	73	69	84	101	109	100	148
Materials engineering	25	23	18	36	27	36	52	47	49
Mechanical engineering	324	325	321	358	431	485	514	558	647
Other	140	150	145	195	202	220	277	269	335
Non-S&E	18,111	18,646	20,488	29,015	33,138	39,549	45,245	51,783	54,329

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Temporary resident									
All fields	37,787	38,774	38,887	38,795	39,479	41,124	42,823	44,175	44,448
S&E	14,747	14,737	14,709	15,184	15,714	16,323	17,729	18,620	18,444
Sciences	9,984	9,940	10,066	10,651	11,295	12,056	13,454	14,073	13,707
Agricultural sciences	270	253	293	258	248	262	270	249	274
Biological sciences	1,367	1,462	1,423	1,376	1,437	1,457	1,537	1,653	1,966
Computer sciences	2,186	2,015	2,137	2,886	3,392	3,888	4,686	4,861	3,876
Earth, atmospheric, and ocean sciences	54	78	82	46	49	59	57	50	80
Atmospheric sciences	1	11	4	8	2	6	8	3	10
Earth sciences	48	60	75	33	46	49	48	45	65
Ocean sciences	5	7	3	5	1	4	1	2	5
Mathematics and statistics	551	533	453	479	426	454	622	682	761
Physical sciences	632	593	593	532	558	545	523	591	670
Astronomy	8	8	11	4	13	16	15	10	20
Chemistry	415	396	385	344	335	343	326	350	398
Physics	193	176	178	160	182	167	168	189	201
Other	16	13	19	24	28	19	14	42	51
Psychology	1,016	1,049	1,170	1,264	1,283	1,367	1,394	1,471	1,504
Social sciences	3,908	3,957	3,915	3,810	3,902	4,024	4,365	4,516	4,576
Anthropology	117	173	102	116	120	114	94	106	115
Area and ethnic studies	203	198	177	178	167	160	160	164	163
Economics	1,787	1,824	1,783	1,691	1,824	1,904	2,048	2,170	2,200
History of science	0	0	1	1	3	2	3	0	1
Linguistics	77	86	100	83	77	81	80	74	77
Political science and public administration	1,130	1,052	1,179	1,154	1,147	1,162	1,284	1,307	1,266
Sociology	324	299	309	299	258	295	349	326	329
Other	270	325	264	288	306	306	347	369	425
Engineering	4,763	4,797	4,643	4,533	4,419	4,267	4,275	4,547	4,737
Aerospace engineering	123	129	137	121	148	122	160	174	171
Chemical engineering	569	571	507	445	424	447	359	368	411
Civil engineering	438	474	510	459	412	371	349	315	326
Electrical engineering	1,987	1,870	1,837	1,836	1,842	1,869	2,052	2,273	2,319
Industrial engineering	448	480	486	481	475	442	402	381	395
Materials engineering	29	28	33	37	42	29	31	29	40
Mechanical engineering	782	908	797	789	744	683	596	614	647
Other	387	337	336	365	332	304	326	393	428
Non-S&E	23,040	24,037	24,178	23,611	23,765	24,801	25,094	25,555	26,004

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
<b>White</b>									
All fields	77.4	76.5	75.6	73.7	72.9	72.2	71.4	70.7	70.2
S&E	74.8	73.5	72.5	70.5	69.7	69.2	68.6	67.8	67.3
Sciences	75.0	73.7	72.6	70.4	69.5	69.0	68.3	67.5	67.1
Agricultural sciences	89.3	89.1	88.4	87.0	86.8	86.1	85.7	85.5	85.2
Biological sciences	72.0	71.3	69.9	69.1	68.1	68.5	67.6	67.3	66.3
Computer sciences	69.7	67.8	66.8	62.9	61.5	60.8	59.0	57.8	59.1
Earth, atmospheric, and ocean sciences	91.1	90.8	89.7	89.0	87.7	87.9	88.4	86.6	86.8
Atmospheric sciences	93.1	92.9	94.8	90.7	87.0	90.0	89.0	89.3	89.5
Earth sciences	90.9	91.0	89.3	89.0	87.8	88.1	88.5	86.1	86.4
Ocean sciences	88.9	84.3	85.7	85.5	86.4	80.1	83.6	87.4	80.9
Mathematics and statistics	78.2	77.4	76.5	74.6	74.1	74.1	73.2	73.7	72.2
Physical sciences	75.0	74.5	73.3	71.9	72.1	72.0	73.0	72.0	71.7
Astronomy	76.4	84.8	80.9	84.0	81.5	78.5	82.8	78.0	75.2
Chemistry	72.7	71.6	70.3	68.7	68.6	68.8	69.7	68.7	69.1
Physics	81.0	81.5	80.9	79.4	80.2	78.7	79.1	78.9	77.4
Other	78.7	83.6	81.0	81.1	80.7	78.3	80.8	74.6	73.1
Psychology	76.8	75.1	74.0	71.4	70.7	70.2	70.3	69.7	68.7
Social sciences	73.4	71.9	70.8	68.9	68.1	67.7	67.1	66.3	65.3
Anthropology	80.4	79.3	79.3	77.5	77.0	75.9	75.1	73.1	73.2
Area and ethnic studies	60.0	59.8	56.7	54.1	54.5	54.1	52.8	52.3	50.2
Economics	72.3	72.0	70.5	68.3	66.9	67.1	65.5	64.4	64.1
History of science	85.7	77.4	86.8	63.7	58.2	59.4	68.0	71.4	74.1
Linguistics	68.8	73.1	68.4	69.9	73.4	75.0	71.8	67.0	65.3
Political science and public administration	74.6	72.8	72.2	70.8	70.3	69.9	69.6	68.8	67.5
Sociology	70.4	68.1	66.9	65.2	64.2	63.3	63.0	62.5	61.1
Other	77.2	75.4	74.7	72.1	71.2	70.4	69.8	69.1	68.5
Engineering	73.9	72.4	72.1	71.0	70.7	70.5	70.3	69.6	68.7
Aerospace engineering	77.2	74.8	79.0	78.4	78.4	78.7	77.9	76.0	77.9
Chemical engineering	74.6	72.3	70.9	70.3	71.7	72.3	72.2	72.3	71.5
Civil engineering	78.5	77.5	77.0	76.6	77.5	77.7	78.0	77.2	76.0
Electrical engineering	64.2	63.8	63.3	61.3	59.8	58.3	58.7	57.3	56.9
Industrial engineering	71.7	64.6	66.6	69.0	69.7	68.7	67.6	68.7	66.5
Materials engineering	80.7	78.6	78.0	79.3	79.7	78.8	76.3	73.4	73.1
Mechanical engineering	77.9	76.9	76.8	76.8	76.8	77.8	78.2	78.2	76.9
Other	78.3	76.6	76.3	74.9	74.7	74.8	73.4	72.6	70.7
Non-S&E	78.7	77.9	77.1	75.2	74.4	73.6	72.8	72.0	71.5
<b>Asian/Pacific Islander</b>									
All fields	5.5	5.9	6.0	6.2	6.2	6.3	6.3	6.3	6.5
S&E	8.2	8.7	9.0	9.3	9.5	9.4	9.4	9.4	9.6
Sciences	7.6	8.1	8.4	8.7	8.9	8.8	8.9	8.9	9.0
Agricultural sciences	1.9	2.3	2.5	2.5	2.3	2.4	2.6	2.5	2.6
Biological sciences	13.1	13.4	13.5	12.6	12.4	12.0	11.9	12.3	13.4
Computer sciences	11.0	12.0	12.6	15.7	15.9	15.9	15.6	14.2	13.0
Earth, atmospheric, and ocean sciences	2.1	2.2	2.2	2.4	2.2	2.2	1.9	2.2	2.2
Atmospheric sciences	2.1	1.7	1.1	2.9	3.1	1.5	1.6	1.9	2.2

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Earth sciences	2.1	2.0	2.1	2.3	1.9	2.0	1.8	2.1	2.2
Ocean sciences	2.8	5.6	5.2	3.6	4.5	5.4	4.5	5.7	1.5
Mathematics and statistics	7.3	7.0	7.2	7.9	8.3	8.5	9.4	9.5	10.1
Physical sciences	9.9	10.4	10.8	10.4	9.9	9.0	8.4	9.0	9.2
Astronomy	10.7	5.3	7.6	5.8	5.3	9.2	6.3	6.4	6.8
Chemistry	11.4	12.2	12.7	12.0	11.9	10.7	9.9	10.7	10.7
Physics	6.7	6.3	6.3	6.8	5.6	5.3	5.4	5.6	5.9
Other	5.3	4.3	3.6	4.2	3.6	5.0	5.1	6.3	7.0
Psychology	5.0	5.5	5.8	5.7	5.7	5.6	5.2	5.4	5.7
Social sciences	6.3	6.7	7.2	7.5	7.8	7.8	8.0	8.3	8.5
Anthropology	5.0	5.5	5.9	4.9	4.9	5.3	5.3	5.3	5.6
Area and ethnic studies	12.4	11.3	12.8	13.6	13.2	12.1	12.0	12.5	13.6
Economics	12.4	13.6	14.8	15.7	16.6	16.2	17.0	17.6	17.4
History of science	9.5	12.9	7.9	13.2	15.3	19.8	16.0	10.0	9.5
Linguistics	10.7	12.6	14.7	11.2	10.1	9.4	10.0	10.8	11.5
Political science and public administration	5.2	5.7	6.0	5.9	6.3	6.2	6.2	6.3	6.5
Sociology	4.6	5.0	4.9	5.2	5.2	5.3	5.3	6.0	6.6
Other	3.8	4.0	4.2	4.6	5.0	4.8	5.1	5.3	5.6
Engineering	11.7	12.3	12.4	12.5	12.8	12.6	12.5	12.7	13.4
Aerospace engineering	10.5	10.2	8.6	8.6	7.6	7.9	7.8	8.7	8.3
Chemical engineering	12.0	13.6	14.4	13.6	12.4	11.6	10.9	10.9	10.9
Civil engineering	8.5	8.8	8.3	7.1	6.1	5.7	5.5	5.4	6.2
Electrical engineering	18.3	18.3	19.0	19.8	21.3	22.1	21.2	21.4	22.5
Industrial engineering	9.8	12.4	10.5	9.6	9.5	10.1	10.9	11.0	9.9
Materials engineering	9.0	8.1	12.2	9.7	9.9	9.4	9.9	11.4	11.7
Mechanical engineering	8.6	8.8	9.0	8.1	8.0	7.0	7.0	6.7	7.6
Other	10.1	11.8	11.3	11.8	12.6	11.8	12.0	13.4	15.1
Non-S&E	4.2	4.5	4.6	4.8	4.7	4.8	4.8	4.8	5.0
Black									
All fields	7.8	8.0	8.3	8.6	8.8	8.8	8.9	9.0	9.0
S&E	7.7	8.0	8.2	8.6	8.7	8.7	8.7	8.8	8.8
Sciences	8.2	8.5	8.7	9.1	9.2	9.3	9.2	9.3	9.3
Agricultural sciences	2.1	2.1	2.3	2.5	2.5	2.7	2.6	2.7	2.6
Biological sciences	6.3	6.5	6.9	7.5	7.7	7.7	7.9	8.0	7.7
Computer sciences	10.9	10.4	10.4	10.1	10.8	10.9	11.4	11.3	11.4
Earth, atmospheric, and ocean sciences	1.4	1.3	1.7	1.3	1.4	1.6	1.5	1.7	1.8
Atmospheric sciences	1.6	1.9	1.6	2.1	0.4	1.9	2.2	3.5	1.2
Earth sciences	1.3	1.1	1.7	1.2	1.6	1.3	1.3	1.4	1.8
Ocean sciences	2.8	4.0	1.4	0.5	1.1	4.5	3.7	1.3	4.6
Mathematics and statistics	7.5	8.3	8.3	8.0	7.3	7.1	6.4	6.0	6.1
Physical sciences	7.0	7.2	7.2	7.8	7.3	7.6	6.8	7.0	6.7
Astronomy	2.1	0.0	1.3	0.6	0.9	1.2	0.4	1.1	1.3
Chemistry	7.7	8.2	7.9	8.8	8.7	8.7	8.3	8.4	8.0
Physics	5.0	4.6	5.5	4.7	4.1	5.2	3.9	4.2	4.1
Other	8.8	5.6	6.9	7.6	5.5	5.9	6.2	7.4	7.0
Psychology	8.3	9.0	9.3	10.3	10.4	10.2	10.3	10.5	10.8

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005  
(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Social sciences	10.0	10.3	10.4	10.5	10.5	10.5	10.1	10.1	10.2
Anthropology	2.9	3.3	3.4	3.9	3.6	3.6	3.5	4.5	4.2
Area and ethnic studies	12.7	12.9	13.1	13.6	12.8	13.8	13.4	13.2	14.0
Economics	6.3	5.8	5.9	5.9	5.9	6.1	6.1	6.2	6.0
History of science	0.0	6.5	0.0	6.6	6.1	4.0	6.0	5.7	4.3
Linguistics	3.5	1.6	3.6	2.2	3.5	3.2	2.0	3.3	3.4
Political science and public administration	9.8	10.2	10.3	10.2	10.0	10.0	9.5	9.6	9.7
Sociology	14.9	15.7	16.0	16.1	16.7	16.7	16.3	15.8	16.1
Other	8.8	9.1	9.3	9.8	9.6	10.0	9.6	9.7	9.7
Engineering	5.1	5.3	5.4	5.6	5.3	5.3	5.2	5.3	5.2
Aerospace engineering	3.4	4.3	3.2	3.5	2.9	2.6	3.5	3.3	3.2
Chemical engineering	5.5	5.8	6.2	6.6	6.6	6.3	6.1	6.3	6.1
Civil engineering	3.5	3.5	3.6	4.4	3.9	3.7	3.2	3.5	3.6
Electrical engineering	7.1	7.3	7.2	6.6	6.5	6.4	6.9	7.3	6.9
Industrial engineering	7.3	7.0	7.5	7.4	7.1	7.2	7.7	7.3	8.4
Materials engineering	3.0	1.9	3.3	2.6	3.0	3.5	2.4	2.6	2.2
Mechanical engineering	4.6	5.0	4.4	4.8	4.1	4.4	3.5	3.7	3.8
Other	4.2	4.3	4.8	4.9	4.6	5.0	5.1	5.0	4.5
Non-S&E	7.9	8.0	8.3	8.6	8.8	8.8	9.0	9.1	9.1
Hispanic									
All fields	6.2	6.5	6.7	7.3	7.4	7.5	7.6	7.7	7.9
S&E	6.2	6.5	6.8	7.3	7.4	7.5	7.6	7.6	7.9
Sciences	6.1	6.4	6.8	7.3	7.4	7.5	7.7	7.7	7.9
Agricultural sciences	3.1	3.3	3.6	3.5	3.5	3.9	3.9	4.0	4.2
Biological sciences	5.8	6.0	6.5	7.0	7.5	7.2	7.8	7.3	7.3
Computer sciences	5.7	5.7	5.8	6.2	5.9	6.0	6.7	6.7	6.8
Earth, atmospheric, and ocean sciences	2.4	2.6	2.8	3.2	4.0	3.5	3.1	3.4	3.9
Atmospheric sciences	1.6	1.9	1.8	1.9	3.3	1.9	1.8	2.3	3.0
Earth sciences	2.4	2.7	2.7	3.2	4.0	3.4	3.2	3.6	3.9
Ocean sciences	3.9	2.5	5.7	6.7	6.8	7.7	4.5	3.8	7.6
Mathematics and statistics	4.4	4.6	5.2	5.3	5.7	5.7	5.5	5.2	5.8
Physical sciences	5.2	5.0	5.4	6.3	6.4	6.4	6.3	6.5	6.5
Astronomy	4.3	3.0	7.0	4.5	7.0	3.8	4.7	8.2	5.5
Chemistry	6.0	5.6	6.1	7.2	7.1	7.3	7.4	7.3	7.4
Physics	3.2	3.7	3.6	3.9	4.6	4.5	4.4	4.7	4.6
Other	3.9	3.0	3.7	5.0	5.5	5.0	2.7	5.4	6.8
Psychology	6.9	7.2	7.5	8.3	8.5	8.8	8.8	8.9	9.1
Social sciences	6.8	7.4	7.6	8.1	8.1	8.4	8.4	8.4	8.8
Anthropology	5.8	6.8	5.8	6.7	6.9	7.0	7.2	7.6	7.6
Area and ethnic studies	10.7	11.3	12.9	12.1	12.0	12.1	12.8	12.4	12.8
Economics	5.2	5.2	5.2	5.5	5.6	5.4	5.4	5.7	5.9
History of science	4.8	3.2	5.3	3.3	5.1	6.9	4.0	5.0	5.2
Linguistics	8.7	4.9	6.7	6.5	6.6	5.0	5.7	7.3	7.0
Political science and public administration	7.3	7.9	8.0	8.4	8.2	8.4	8.4	8.4	9.1
Sociology	7.1	7.8	8.5	9.1	9.1	9.8	9.9	10.0	10.2
Other	6.1	7.0	7.3	8.3	8.4	9.2	9.1	8.8	8.8



TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005  
(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Engineering	6.4	7.2	7.3	7.4	7.3	7.3	7.3	7.4	7.5
Aerospace engineering	5.9	8.0	7.0	5.8	6.8	6.0	5.9	5.6	6.3
Chemical engineering	5.4	5.9	6.3	6.6	6.0	6.4	6.2	6.5	7.4
Civil engineering	6.4	7.6	8.4	8.3	8.7	8.9	8.8	9.2	9.4
Electrical engineering	7.2	7.7	7.4	8.1	7.9	8.2	7.6	8.1	8.0
Industrial engineering	9.6	12.8	12.8	11.3	10.6	10.5	10.3	9.7	10.3
Materials engineering	4.3	8.6	4.3	4.1	3.8	3.7	5.4	6.2	6.8
Mechanical engineering	6.2	6.5	6.9	6.9	7.1	6.5	7.1	6.8	6.7
Other	4.9	4.4	4.8	4.8	4.4	4.5	4.9	4.7	4.7
Non-S&E	6.2	6.5	6.7	7.3	7.4	7.5	7.6	7.7	7.9
American Indian/Alaskan Native									
All fields	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
S&E	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
Sciences	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.8	0.7
Agricultural sciences	0.9	0.9	0.9	1.1	1.2	0.9	0.9	1.1	1.0
Biological sciences	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.7	0.8
Computer sciences	0.4	0.4	0.4	0.5	0.7	0.5	0.5	0.8	0.5
Earth, atmospheric, and ocean sciences	0.5	0.7	0.6	1.1	0.9	0.7	0.6	0.8	0.6
Atmospheric sciences	0.2	0.2	0.0	0.8	1.1	0.2	0.7	0.2	0.1
Earth sciences	0.5	0.7	0.7	1.1	0.9	0.7	0.6	1.0	0.7
Ocean sciences	1.1	2.0	0.0	2.1	0.6	0.9	1.5	0.0	0.8
Mathematics and statistics	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5
Physical sciences	0.5	0.5	0.6	0.5	0.5	0.6	0.7	0.6	0.7
Astronomy	0.0	0.0	0.0	1.3	0.9	0.8	1.6	0.4	1.0
Chemistry	0.6	0.5	0.6	0.5	0.5	0.6	0.8	0.6	0.7
Physics	0.6	0.3	0.4	0.4	0.6	0.6	0.5	0.5	0.8
Other	0.4	0.5	0.4	0.3	0.8	0.5	0.3	1.1	0.4
Psychology	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7
Social sciences	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.8
Anthropology	1.2	1.3	1.2	1.3	1.4	1.2	1.5	1.4	1.3
Area and ethnic studies	1.2	1.2	1.4	1.5	2.0	2.1	2.3	2.4	2.1
Economics	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.4
History of science	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
Linguistics	0.6	1.0	1.7	1.6	0.3	0.3	1.1	0.4	1.2
Political science and public administration	0.6	0.7	0.6	0.7	0.7	0.6	0.7	0.8	0.7
Sociology	0.8	0.8	0.8	0.9	0.9	0.7	0.9	0.9	0.9
Other	0.7	0.7	0.8	0.8	0.9	0.7	0.8	0.8	0.9
Engineering	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.6
Aerospace engineering	0.3	0.3	0.9	0.6	0.6	1.0	0.5	1.1	0.7
Chemical engineering	0.5	0.5	0.5	0.7	0.5	0.6	0.7	0.6	0.7
Civil engineering	0.5	0.6	0.6	0.9	0.8	0.8	0.7	0.7	0.8
Electrical engineering	0.4	0.3	0.4	0.5	0.3	0.4	0.5	0.5	0.4
Industrial engineering	0.2	0.5	0.4	0.7	0.5	0.6	0.3	0.4	0.8
Materials engineering	0.4	0.6	0.3	0.5	0.5	0.7	0.3	0.7	0.6
Mechanical engineering	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.5
Other	0.4	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.6
Non-S&E	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005  
(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Other or unknown race/ethnicity									
All fields	2.4	2.5	2.7	3.5	4.0	4.6	5.1	5.6	5.7
S&E	2.5	2.6	2.8	3.6	4.1	4.5	5.1	5.6	5.7
Sciences	2.5	2.7	2.9	3.8	4.2	4.7	5.2	5.8	5.9
Agricultural sciences	2.7	2.3	2.4	3.4	3.6	4.0	4.2	4.3	4.3
Biological sciences	2.2	2.3	2.5	3.2	3.6	4.0	4.2	4.4	4.6
Computer sciences	2.4	3.7	3.9	4.5	5.2	5.8	6.8	9.2	9.1
Earth, atmospheric, and ocean sciences	2.5	2.4	3.1	3.0	3.8	4.2	4.5	5.3	4.7
Atmospheric sciences	1.4	1.4	0.7	1.7	5.1	4.4	4.7	2.8	3.9
Earth sciences	2.8	2.6	3.5	3.3	3.8	4.4	4.5	5.9	4.9
Ocean sciences	0.6	1.5	1.9	1.6	0.6	1.4	2.2	1.9	4.6
Mathematics and statistics	2.1	2.2	2.3	3.5	4.1	4.2	5.0	5.1	5.3
Physical sciences	2.2	2.4	2.7	3.2	3.7	4.4	4.7	4.9	5.2
Astronomy	6.4	6.8	3.2	3.8	4.4	6.5	4.3	6.0	10.3
Chemistry	1.7	1.9	2.4	2.8	3.3	3.7	3.9	4.3	4.1
Physics	3.5	3.5	3.3	4.7	5.0	5.7	6.7	6.1	7.2
Other	2.9	3.0	4.5	1.9	3.9	5.3	4.8	5.2	5.8
Psychology	2.3	2.5	2.6	3.5	3.9	4.5	4.7	4.8	5.0
Social sciences	2.9	2.9	3.2	4.2	4.6	4.9	5.6	6.1	6.4
Anthropology	4.6	3.8	4.3	5.8	6.3	7.0	7.5	8.2	8.1
Area and ethnic studies	2.9	3.4	3.0	5.2	5.5	5.8	6.7	7.2	7.3
Economics	3.4	2.9	3.2	4.2	4.7	4.8	5.5	5.7	6.2
History of science	0.0	0.0	0.0	12.1	15.3	9.9	6.0	7.9	6.9
Linguistics	7.7	6.7	4.8	8.7	6.0	7.2	9.4	11.2	11.7
Political science and public administration	2.5	2.6	2.9	4.0	4.5	4.8	5.6	6.2	6.6
Sociology	2.3	2.5	2.8	3.4	3.9	4.3	4.6	4.9	5.2
Other	3.4	3.7	3.6	4.4	4.8	4.9	5.6	6.3	6.5
Engineering	2.5	2.3	2.3	2.9	3.4	3.7	4.2	4.4	4.6
Aerospace engineering	2.8	2.4	1.3	3.1	3.7	3.8	4.3	5.4	3.6
Chemical engineering	2.1	1.9	1.7	2.1	2.8	2.8	4.0	3.4	3.4
Civil engineering	2.6	2.0	2.2	2.6	3.1	3.2	3.6	4.0	4.1
Electrical engineering	2.9	2.5	2.7	3.6	4.1	4.5	5.0	5.3	5.4
Industrial engineering	1.4	2.7	2.1	2.0	2.5	2.9	3.1	2.9	4.2
Materials engineering	2.6	2.2	1.8	3.9	3.0	4.0	5.7	5.6	5.7
Mechanical engineering	2.4	2.5	2.6	2.9	3.5	3.8	3.8	4.1	4.5
Other	2.2	2.3	2.3	3.0	3.3	3.4	4.0	3.8	4.5
Non-S&E	2.3	2.4	2.6	3.5	4.0	4.6	5.1	5.6	5.7

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-8. Bachelor's degrees awarded in engineering, by sex, race/ethnicity, and citizenship: 1990–2006

Year	All recipients	Sex		Race/ethnicity					
		Female	Male	White	Asian	African	Hispanic	Native	Foreign National
					American	American	American	American	
1990	65,967	10,130	55,837	50,099	5,989	2,173	2,473	112	5,121
1991	63,986	10,016	53,970	48,028	6,305	2,304	2,663	146	4,540
1992	63,653	9,972	53,681	47,540	6,479	2,374	2,708	163	4,389
1993	65,001	10,453	54,548	47,976	6,764	2,637	2,845	175	4,604
1994	64,946	10,800	54,146	47,136	6,881	2,769	3,045	207	4,908
1995	64,749	11,303	53,446	46,264	7,056	2,897	3,409	230	4,893
1996	65,267	11,737	53,530	45,952	7,333	3,120	3,557	263	5,042
1997	65,091	12,160	52,931	44,976	7,625	3,203	4,005	265	5,017
1998	63,262	11,796	51,466	43,719	7,131	3,144	3,938	247	5,083
1999	62,500	12,360	50,140	42,650	7,226	3,171	4,073	328	5,052
2000	63,635	13,140	50,495	43,437	7,529	3,150	4,124	347	5,048
2001	65,195	13,195	52,000	44,407	8,340	3,182	4,152	275	4,839
2002	68,648	14,102	54,546	47,149	8,669	3,358	4,298	315	4,859
2003	75,031	15,114	59,917	51,297	9,705	3,429	4,652	388	5,560
2004	76,003	15,282	60,721	51,420	9,941	3,699	4,813	362	5,768
2005	76,003	14,868	61,135	51,302	10,033	3,756	4,890	378	5,644
2006	76,103	14,654	61,449	51,944	9,719	3,673	4,957	456	5,354

NOTES: These data differ from data collected by the National Center for Education Statistics (NCES) due to differences in population covered and taxonomy. The primary difference is that these data include some degrees that are counted as computer science by NCES.

SOURCE: Engineering Workforce Commission, *Engineering and Technology Degrees, 2006* (Washington, DC, 2006).

TABLE C-9. Bachelor's degrees awarded by historically black colleges and universities to U.S.-citizen and permanent-resident blacks, by field: 1996–2005

Institution type and field	1996	1997	1998	2000	2001	2002	2003	2004	2005
	Number of recipients								
All institutions									
All fields	89,554	92,067	95,878	104,212	106,648	111,032	117,257	122,618	125,678
S&E	28,397	29,825	30,751	32,924	33,290	34,796	36,711	38,369	39,283
Sciences	25,397	26,748	27,732	29,861	30,406	31,814	33,637	35,157	36,098
Agricultural sciences	341	367	409	450	428	454	452	450	444
Biological sciences	3,812	4,124	4,553	4,739	4,693	4,634	4,878	5,038	5,051
Computer sciences	2,427	2,432	2,666	3,497	4,291	4,954	5,867	5,934	5,303
Earth, atmospheric, and ocean sciences	60	57	70	51	56	62	60	65	68
Mathematical sciences	942	1,016	966	905	808	843	790	784	855
Physical sciences	1,040	1,053	1,057	1,090	996	1,018	928	958	966
Psychology	6,028	6,647	6,852	7,572	7,562	7,747	8,011	8,479	9,130
Social sciences	10,747	11,052	11,159	11,557	11,572	12,102	12,651	13,449	14,281
Engineering	3,000	3,077	3,019	3,063	2,884	2,982	3,074	3,212	3,185
Non-S&E	61,157	62,242	65,127	71,288	73,358	76,236	80,546	84,249	86,395
Historically black colleges and universities									
All fields	25,425	25,215	25,546	25,558	25,142	25,166	26,075	26,518	26,443
S&E	8,695	8,814	8,830	8,530	8,682	8,607	8,720	8,909	8,754
Sciences	7,801	7,909	7,987	7,836	8,013	7,940	8,070	8,259	8,045
Agricultural sciences	178	202	210	213	198	229	218	189	183
Biological sciences	1,628	1,841	1,920	1,884	1,943	1,823	1,741	1,806	1,749
Computer sciences	979	834	904	987	1,220	1,274	1,487	1,563	1,409
Earth, atmospheric, and ocean sciences	12	6	23	5	7	4	7	8	
Mathematical sciences	443	478	444	427	345	339	302	290	277
Physical sciences	535	497	462	491	464	427	374	378	360
Psychology	1,512	1,653	1,636	1,682	1,677	1,685	1,753	1,816	1,848
Social sciences	2,514	2,398	2,388	2,147	2,159	2,159	2,188	2,209	2,219
Engineering	894	905	843	694	669	667	650	650	709
Non-S&E	16,730	16,401	16,716	17,028	16,460	16,559	17,355	17,609	17,689
	Percent from historically black colleges and universities								
All fields	28.4	27.4	26.6	24.5	23.6	22.7	22.2	21.6	21.0
S&E	30.6	29.6	28.7	25.9	26.1	24.7	23.8	23.2	22.3
Sciences	30.7	29.6	28.8	26.2	26.4	25.0	24.0	23.5	22.3
Agricultural sciences	52.2	55.0	51.3	47.3	46.3	50.4	48.2	42.0	41.2
Biological sciences	42.7	44.6	42.2	39.8	41.4	39.3	35.7	35.8	34.6
Computer sciences	40.3	34.3	33.9	28.2	28.4	25.7	25.3	26.3	26.6
Earth, atmospheric, and ocean sciences	20.0	10.5	32.9	9.8	12.5	6.5	11.7	12.3	0.0
Mathematical sciences	47.0	47.0	46.0	47.2	42.7	40.2	38.2	37.0	32.4
Physical sciences	51.4	47.2	43.7	45.0	46.6	41.9	40.3	39.5	37.3
Psychology	25.1	24.9	23.9	22.2	22.2	21.8	21.9	21.4	20.2
Social sciences	23.4	21.7	21.4	18.6	18.7	17.8	17.3	16.4	15.5
Engineering	29.8	29.4	27.9	22.7	23.2	22.4	21.1	20.2	22.3
Non-S&E	27.4	26.4	25.7	23.9	22.4	21.7	21.5	20.9	20.5

NOTE: Data not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-10. Bachelor's degrees awarded to U.S.-citizen and permanent-resident Hispanics, by institution type and field: 1994–2001

Institution type and field	1994	1995	1996	1997	1998	2000	2001
	Number of recipients						
All institutions							
All fields	62,683	66,691	71,015	74,938	78,125	88,324	89,972
S&E	20,529	21,359	22,886	24,445	25,712	27,984	28,321
Sciences	17,386	17,708	19,155	20,320	21,587	23,909	24,305
Agricultural sciences	336	383	504	559	631	634	607
Biological sciences	2,901	3,101	3,531	3,795	4,283	4,446	4,547
Computer sciences	1,135	1,314	1,284	1,327	1,473	2,155	2,354
Mathematical sciences	543	522	556	560	604	599	625
Physical sciences	733	800	872	853	914	1,010	1,027
Psychology	3,990	4,543	5,036	5,282	5,509	6,127	6,178
Social sciences	7,748	7,045	7,372	7,944	8,173	8,938	8,967
Engineering	3,143	3,651	3,731	4,125	4,125	4,075	4,016
Non-S&E	42,154	45,332	48,129	50,493	52,413	60,340	61,651
Hispanic-serving institutions							
All fields	25,568	26,924	28,439	29,407	29,555	33,847	34,062
S&E	6,758	7,309	7,793	8,399	8,624	9,383	9,494
Sciences	5,585	5,744	6,291	6,695	7,035	7,822	7,897
Agricultural sciences	97	119	155	188	190	202	214
Biological sciences	1,296	1,298	1,512	1,607	1,826	1,986	2,027
Computer sciences	473	512	518	485	544	696	726
Mathematical sciences	168	182	199	216	202	218	202
Physical sciences	324	398	423	401	428	518	472
Psychology	1,363	1,485	1,633	1,707	1,774	2,006	2,047
Social sciences	1,864	1,750	1,851	2,091	2,071	2,196	2,209
Engineering	1,173	1,565	1,502	1,704	1,589	1,561	1,597
Non-S&E	18,810	19,615	20,646	21,008	20,931	24,464	24,568
	Percent						
Hispanic-serving institutions							
All fields	40.8	40.4	40.0	39.2	37.8	38.3	37.9
S&E	32.9	34.2	34.1	34.4	33.5	33.5	33.5
Sciences	32.1	32.4	32.8	32.9	32.6	32.7	32.5
Agricultural sciences	28.9	31.1	30.8	33.6	30.1	31.9	35.3
Biological sciences	44.7	41.9	42.8	42.3	42.6	44.7	44.6
Computer sciences	41.7	39.0	40.3	36.5	36.9	32.3	30.8
Mathematical sciences	30.9	34.9	35.8	38.6	33.4	36.4	32.3
Physical sciences	44.2	49.8	48.5	47.0	46.8	51.3	46.0
Psychology	34.2	32.7	32.4	32.3	32.2	32.7	33.1
Social sciences	24.1	24.8	25.1	26.3	25.3	24.6	24.6
Engineering	37.3	42.9	40.3	41.3	38.5	38.3	39.8
Non-S&E	44.6	43.3	42.9	41.6	39.9	40.5	39.9

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-11. Bachelor's degrees awarded by tribal colleges and universities to U.S.-citizen and permanent-resident American Indians/Alaskan Natives, by field: 1996–2005

Institution type and field	1996	1997	1998	2000	2001	2002	2003	2004	2005
	Number of recipients								
All institutions									
All fields	6,813	7,238	7,706	8,431	8,664	8,668	9,242	9,914	9,556
S&E	2,149	2,298	2,392	2,611	2,796	2,642	2,892	3,231	3,167
Sciences	1,906	2,035	2,138	2,283	2,540	2,334	2,572	2,898	2,818
Agricultural sciences	139	146	151	190	215	158	163	187	160
Biological sciences	317	341	399	379	431	410	380	417	496
Computer sciences	89	99	112	172	271	229	263	416	249
Earth, atmospheric, and ocean sciences	23	31	25	43	35	26	24	31	25
Mathematical sciences	53	57	65	69	51	57	65	59	76
Physical sciences	81	69	81	65	73	83	94	76	103
Psychology	470	496	515	518	561	542	544	596	552
Social sciences	734	796	790	847	903	829	1,039	1,116	1,157
Engineering	243	263	254	328	256	308	320	333	349
Non-S&E	4,664	4,940	5,314	5,820	5,868	6,026	6,350	6,683	6,389
Tribal colleges and universities									
All fields	57	67	48	98	112	122	133	148	137
S&E	14	24	15	28	44	29	43	66	43
Sciences	14	24	15	28	44	29	43	66	43
Agricultural sciences	2	7	3	5	8	10	14	22	10
Biological sciences	0	0	0	0	0	0	0	0	0
Computer sciences	0	0	0	0	2	0	0	1	5
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0
Mathematical sciences	0	0	0	0	0	0	0	0	0
Physical sciences	0	0	0	0	0	0	0	0	0
Psychology	0	0	0	0	0	0	0	0	0
Social sciences	12	17	12	23	34	19	29	43	28
Engineering	0	0	0	0	0	0	0	0	0
Non-S&E	43	43	33	70	68	93	90	82	94
	Percent from tribal colleges and universities								
All fields	0.8	0.9	0.6	1.2	1.3	1.4	1.4	1.5	1.4
S&E	0.7	1.0	0.6	1.1	1.6	1.1	1.5	2.0	1.4
Sciences	0.7	1.2	0.7	1.2	1.7	1.2	1.7	2.3	1.5
Agricultural sciences	1.4	4.8	2.0	2.6	3.7	6.3	8.6	11.8	6.3
Biological sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer sciences	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	2.0
Earth, atmospheric, and ocean sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mathematical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Psychology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social sciences	1.6	2.1	1.5	2.7	3.8	2.3	2.8	3.9	2.4
Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-S&E	0.9	0.9	0.6	1.2	1.2	1.5	1.4	1.2	1.5

NOTE: Data not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	651,815	661,307	673,865	716,963	721,625	751,773	783,866	810,817	828,938
S&E	181,333	187,011	190,397	200,953	202,583	211,203	222,389	229,939	235,197
Sciences	170,017	175,541	179,058	188,737	190,669	198,516	209,419	216,682	222,000
Agricultural sciences	6,504	7,267	7,743	8,464	8,491	8,634	8,959	8,714	8,731
Biological sciences	32,865	35,266	37,101	37,958	37,084	37,695	39,533	40,440	42,283
Computer sciences	6,772	6,903	7,439	10,474	11,900	13,504	15,190	14,406	11,235
Earth, atmospheric, and ocean sciences	1,485	1,542	1,599	1,617	1,622	1,702	1,651	1,647	1,660
Atmospheric sciences	86	83	104	114	132	151	176	203	241
Earth sciences	1,334	1,385	1,403	1,409	1,400	1,446	1,406	1,358	1,351
Ocean sciences	65	74	92	94	90	105	69	86	68
Mathematics and statistics	5,992	5,889	5,659	5,604	5,497	5,762	5,879	6,318	6,625
Physical sciences	5,702	5,882	5,994	5,990	5,911	5,982	5,884	6,002	6,420
Astronomy	55	46	58	54	95	116	110	123	143
Chemistry	4,622	4,883	4,973	4,907	4,775	4,729	4,682	4,755	5,146
Physics	684	652	666	724	756	826	840	908	903
Other	341	301	297	305	285	311	252	216	228
Psychology	53,863	55,243	55,400	57,114	57,467	59,926	61,499	64,208	66,833
Social sciences	56,834	57,549	58,123	61,516	62,697	65,311	70,824	74,947	78,213
Anthropology	4,058	4,313	4,480	4,742	4,706	4,926	5,229	5,280	5,379
Area and ethnic studies	3,217	3,256	3,441	3,572	3,657	3,808	3,690	4,080	4,266
Economics	5,372	5,448	5,791	6,384	6,924	7,389	8,096	8,281	8,141
History of science	9	17	18	52	56	63	54	73	64
Linguistics	438	393	483	498	512	612	626	717	729
Political science and public administration	18,350	17,854	17,320	18,347	18,637	19,743	22,466	24,288	26,325
Sociology	16,375	16,904	17,122	18,028	17,923	18,011	18,638	19,310	20,138
Other	9,015	9,364	9,468	9,893	10,282	10,759	12,025	12,918	13,171
Engineering	11,316	11,470	11,339	12,216	11,914	12,687	12,970	13,257	13,197
Aerospace engineering	247	202	197	238	304	312	384	413	404
Chemical engineering	2,171	2,276	2,196	2,203	2,055	2,123	2,013	1,833	1,776
Civil engineering	2,424	2,569	2,576	2,333	2,041	2,224	2,249	2,279	2,349
Electrical engineering	1,972	2,018	2,012	2,350	2,542	2,720	2,909	3,032	2,833
Industrial engineering	1,097	1,079	1,020	1,307	1,224	1,341	1,312	1,265	1,269
Materials engineering	223	259	235	268	263	285	276	270	282
Mechanical engineering	1,736	1,635	1,636	1,784	1,739	1,783	1,861	1,952	1,953
Other	1,446	1,432	1,467	1,733	1,746	1,899	1,966	2,213	2,331
Non-S&E	470,482	474,296	483,468	516,010	519,042	540,570	561,477	580,878	593,741
U.S. citizen/permanent resident									
All fields	635,459	644,156	656,430	698,782	702,996	731,965	763,300	789,508	807,293
S&E	176,284	181,754	185,125	194,917	196,328	204,525	215,161	222,363	227,719
Sciences	165,588	170,960	174,414	183,507	185,191	192,590	202,968	210,015	215,481
Agricultural sciences	6,393	7,176	7,619	8,339	8,362	8,485	8,807	8,567	8,574
Biological sciences	32,111	34,473	36,358	37,129	36,227	36,776	38,598	39,429	41,039
Computer sciences	6,164	6,330	6,815	9,569	10,844	12,272	13,720	12,990	10,286
Earth, atmospheric, and ocean sciences	1,467	1,513	1,565	1,600	1,609	1,676	1,624	1,622	1,624
Atmospheric sciences	86	82	102	113	131	149	174	202	237
Earth sciences	1,317	1,360	1,372	1,393	1,388	1,425	1,382	1,335	1,323
Ocean sciences	64	71	91	94	90	102	68	85	64
Mathematics and statistics	5,820	5,676	5,492	5,429	5,337	5,586	5,652	6,021	6,317
Physical sciences	5,471	5,671	5,782	5,782	5,676	5,752	5,663	5,754	6,130
Astronomy	54	45	55	51	89	109	102	117	132

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemistry	4,423	4,709	4,799	4,748	4,595	4,558	4,516	4,571	4,932
Physics	659	619	637	684	710	780	796	857	847
Other	335	298	291	299	282	305	249	209	219
Psychology	53,122	54,449	54,526	56,124	56,454	58,867	60,385	63,041	65,647
Social sciences	55,040	55,672	56,257	59,535	60,682	63,176	68,519	72,591	75,864
Anthropology	3,971	4,202	4,411	4,664	4,624	4,849	5,160	5,205	5,298
Area and ethnic studies	3,120	3,131	3,318	3,450	3,535	3,699	3,582	3,966	4,162
Economics	4,752	4,798	5,133	5,727	6,195	6,568	7,225	7,387	7,238
History of science	9	17	17	52	54	62	52	73	64
Linguistics	371	323	405	431	452	543	564	657	669
Political science and public administration	17,780	17,308	16,727	17,672	17,991	19,079	21,739	23,516	25,589
Sociology	16,158	16,702	16,915	17,817	17,728	17,804	18,384	19,084	19,906
Other	8,879	9,191	9,331	9,722	10,103	10,572	11,813	12,703	12,938
Engineering	10,696	10,794	10,711	11,410	11,137	11,935	12,193	12,348	12,238
Aerospace engineering	232	190	184	224	280	291	362	387	382
Chemical engineering	2,027	2,119	2,075	2,061	1,941	1,994	1,890	1,713	1,643
Civil engineering	2,354	2,477	2,497	2,236	1,951	2,143	2,179	2,190	2,263
Electrical engineering	1,766	1,803	1,819	2,067	2,271	2,433	2,604	2,679	2,461
Industrial engineering	1,016	1,000	926	1,192	1,109	1,235	1,213	1,165	1,151
Materials engineering	217	253	227	260	247	279	270	254	272
Mechanical engineering	1,701	1,574	1,582	1,707	1,675	1,731	1,793	1,883	1,886
Other	1,383	1,378	1,401	1,663	1,663	1,829	1,882	2,077	2,180
Non-S&E	459,175	462,402	471,305	503,865	506,668	527,440	548,139	567,145	579,574
White									
All fields	484,996	485,218	489,011	506,958	504,580	518,797	535,094	546,765	555,024
S&E	128,224	129,706	130,189	133,128	132,664	136,725	142,624	145,345	147,288
Sciences	121,088	122,651	123,267	125,846	125,607	129,289	134,977	137,775	139,948
Agricultural sciences	5,600	6,236	6,554	7,101	7,121	7,179	7,422	7,166	7,131
Biological sciences	22,652	23,970	24,977	25,228	24,286	24,716	25,632	25,893	26,483
Computer sciences	3,568	3,599	3,795	4,971	5,448	5,967	6,362	5,719	4,614
Earth, atmospheric, and ocean sciences	1,332	1,335	1,364	1,404	1,383	1,462	1,446	1,367	1,367
Atmospheric sciences	75	74	92	102	115	133	160	176	209
Earth sciences	1,197	1,200	1,191	1,224	1,188	1,251	1,223	1,119	1,106
Ocean sciences	60	61	81	78	80	78	63	72	52
Mathematics and statistics	4,584	4,387	4,164	4,049	3,928	4,068	4,121	4,392	4,581
Physical sciences	3,790	3,890	3,912	3,814	3,819	3,815	3,865	3,813	4,036
Astronomy	40	37	45	43	66	85	82	89	89
Chemistry	3,000	3,131	3,146	3,024	2,984	2,934	2,967	2,925	3,169
Physics	499	471	493	500	549	567	611	635	623
Other	251	251	228	247	220	229	205	164	155
Psychology	40,735	40,826	40,307	40,003	39,977	41,393	42,469	43,819	44,938
Social sciences	38,827	38,408	38,194	39,276	39,645	40,689	43,660	45,606	46,798
Anthropology	3,184	3,303	3,476	3,594	3,561	3,671	3,835	3,759	3,835
Area and ethnic studies	1,813	1,832	1,834	1,807	1,907	1,956	1,837	2,010	2,039
Economics	3,027	3,070	3,220	3,491	3,675	3,810	4,039	4,042	4,005
History of science	7	13	16	33	30	35	36	52	46
Linguistics	256	224	272	299	324	400	402	433	433
Political science and public administration	12,530	11,929	11,297	11,719	11,868	12,520	14,155	15,047	15,918
Sociology	11,339	11,350	11,328	11,607	11,315	11,172	11,462	11,888	12,025
Other	6,671	6,687	6,751	6,726	6,965	7,125	7,894	8,375	8,497
Engineering	7,136	7,055	6,922	7,282	7,057	7,436	7,647	7,570	7,340
Aerospace engineering	183	140	152	175	216	232	287	282	294



TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemical engineering	1,355	1,397	1,303	1,271	1,229	1,273	1,238	1,130	1,064
Civil engineering	1,714	1,810	1,802	1,620	1,402	1,527	1,540	1,552	1,524
Electrical engineering	869	878	880	981	1,006	1,011	1,092	1,046	948
Industrial engineering	634	601	568	731	693	727	749	706	651
Materials engineering	153	169	157	187	187	194	191	180	191
Mechanical engineering	1,223	1,081	1,084	1,186	1,161	1,218	1,293	1,301	1,253
Other	1,005	979	976	1,131	1,163	1,254	1,257	1,373	1,415
Non-S&E	356,772	355,512	358,822	373,830	371,916	382,072	392,470	401,420	407,736
Asian/Pacific Islander									
All fields	33,163	35,626	37,400	40,697	41,291	43,410	45,273	47,635	50,134
S&E	13,743	14,942	15,828	16,981	17,423	18,104	18,954	20,012	20,961
Sciences	12,307	13,468	14,261	15,317	15,739	16,250	17,099	17,995	18,908
Agricultural sciences	171	229	251	274	256	250	282	266	295
Biological sciences	4,087	4,533	4,688	4,460	4,280	4,325	4,491	4,849	5,503
Computer sciences	751	849	892	1,741	2,046	2,352	2,542	2,275	1,588
Earth, atmospheric, and ocean sciences	26	49	47	45	43	48	29	41	44
Atmospheric sciences	3	4	1	4	6	4	4	5	7
Earth sciences	22	42	43	37	36	36	23	31	36
Ocean sciences	1	3	3	4	1	8	2	5	1
Mathematics and statistics	390	380	390	444	434	485	551	573	627
Physical sciences	625	690	726	679	657	595	554	601	693
Astronomy	7	4	3	4	10	12	5	10	9
Chemistry	545	621	673	609	590	514	487	526	614
Physics	55	59	38	56	46	54	54	53	53
Other	18	6	12	10	11	15	8	12	17
Psychology	2,541	2,862	3,044	3,150	3,106	3,124	2,988	3,296	3,605
Social sciences	3,716	3,876	4,223	4,524	4,917	5,071	5,662	6,094	6,553
Anthropology	214	244	289	237	239	253	288	290	320
Area and ethnic studies	405	378	449	487	490	473	421	498	573
Economics	795	876	1,010	1,174	1,355	1,427	1,697	1,746	1,664
History of science	1	2	1	5	10	14	8	6	5
Linguistics	47	49	70	50	53	57	65	77	85
Political science and public administration	1,121	1,117	1,169	1,220	1,338	1,407	1,595	1,678	1,881
Sociology	778	837	824	904	925	925	963	1,103	1,268
Other	355	373	411	447	507	515	625	696	757
Engineering	1,436	1,474	1,567	1,664	1,684	1,854	1,855	2,017	2,053
Aerospace engineering	21	16	10	16	22	24	21	43	35
Chemical engineering	271	326	344	352	298	313	261	233	224
Civil engineering	270	254	273	189	149	171	181	183	229
Electrical engineering	408	401	459	530	641	739	751	805	769
Industrial engineering	104	109	96	124	118	144	156	153	131
Materials engineering	31	29	38	41	31	34	30	28	38
Mechanical engineering	161	165	162	172	168	149	157	209	226
Other	170	174	185	240	257	280	298	363	401
Non-S&E	19,420	20,684	21,572	23,716	23,868	25,306	26,319	27,623	29,173
Black									
All fields	57,331	59,341	62,225	68,564	70,270	73,826	78,266	81,926	83,760
S&E	17,167	18,330	19,053	20,948	21,327	22,375	23,456	24,630	25,288
Sciences	16,131	17,273	18,011	19,858	20,301	21,284	22,400	23,534	24,214
Agricultural sciences	171	196	230	267	261	275	256	282	267
Biological sciences	2,576	2,820	3,105	3,359	3,367	3,358	3,586	3,721	3,756

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Computer sciences	1,204	1,179	1,294	1,670	1,989	2,324	2,750	2,667	2,220
Earth, atmospheric, and ocean sciences	29	20	37	24	24	32	27	40	38
Atmospheric sciences	5	1	3	4	0	5	5	10	3
Earth sciences	23	15	32	19	23	20	21	29	33
Ocean sciences	1	4	2	1	1	7	1	1	2
Mathematics and statistics	493	533	504	471	451	470	416	447	439
Physical sciences	589	624	569	645	580	611	551	592	586
Astronomy	1	0	1	0	0	1	1	2	3
Chemistry	485	559	484	561	513	519	489	510	508
Physics	65	47	65	63	43	69	41	62	57
Other	38	18	19	21	24	22	20	18	18
Psychology	4,610	5,056	5,308	5,926	6,005	6,210	6,448	6,906	7,498
Social sciences	6,459	6,845	6,964	7,496	7,624	8,004	8,366	8,879	9,410
Anthropology	131	154	167	198	172	199	198	257	243
Area and ethnic studies	414	421	463	493	479	510	512	546	598
Economics	418	394	423	452	527	593	618	655	607
History of science	0	1	0	3	4	3	3	5	4
Linguistics	11	6	17	12	20	20	9	30	26
Political science and public administration	2,197	2,224	2,193	2,273	2,255	2,411	2,605	2,903	3,205
Sociology	2,383	2,647	2,719	2,916	3,033	3,018	3,072	3,045	3,292
Other	905	998	982	1,149	1,134	1,250	1,349	1,438	1,435
Engineering	1,036	1,057	1,042	1,090	1,026	1,091	1,056	1,096	1,074
Aerospace engineering	6	6	2	6	8	9	17	12	10
Chemical engineering	210	208	220	214	194	190	168	154	152
Civil engineering	143	128	147	147	114	126	111	133	141
Electrical engineering	257	290	265	296	323	322	355	374	352
Industrial engineering	128	123	106	126	117	141	128	123	141
Materials engineering	11	7	18	14	11	20	9	14	11
Mechanical engineering	181	183	150	151	134	154	123	138	126
Other	100	112	134	136	125	129	145	148	141
Non-S&E	40,164	41,011	43,172	47,616	48,943	51,451	54,810	57,296	58,472
Hispanic									
All fields	41,680	44,388	46,409	53,667	54,667	58,357	61,840	64,818	68,134
S&E	11,887	12,945	13,744	15,460	15,580	16,750	18,110	18,784	19,922
Sciences	11,053	12,016	12,798	14,472	14,618	15,695	17,050	17,676	18,767
Agricultural sciences	222	264	313	319	310	357	386	379	416
Biological sciences	1,969	2,196	2,460	2,710	2,791	2,748	3,117	3,015	3,150
Computer sciences	457	437	512	695	726	836	1,103	1,009	851
Earth, atmospheric, and ocean sciences	39	54	56	53	83	52	51	62	79
Atmospheric sciences	2	2	6	1	5	1	2	4	7
Earth sciences	36	50	47	45	71	44	48	54	67
Ocean sciences	1	2	3	7	7	7	1	4	5
Mathematics and statistics	224	234	286	273	295	332	297	308	347
Physical sciences	345	331	384	452	414	437	412	450	485
Astronomy	3	3	2	2	7	2	7	6	8
Chemistry	311	300	352	404	357	383	365	391	417
Physics	17	22	22	31	33	32	34	46	43
Other	14	6	8	15	17	20	6	7	17
Psychology	3,710	3,997	4,127	4,699	4,782	5,130	5,321	5,660	5,954
Social sciences	4,087	4,503	4,660	5,271	5,217	5,803	6,363	6,793	7,485
Anthropology	231	285	249	309	301	342	372	394	411

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Area and ethnic studies	355	356	428	430	415	462	485	524	561
Economics	311	294	286	332	328	393	451	464	466
History of science	1	1	0	3	2	4	3	5	4
Linguistics	32	17	26	27	29	30	34	46	50
Political science and public administration	1,396	1,516	1,480	1,630	1,602	1,718	1,988	2,192	2,608
Sociology	1,167	1,316	1,443	1,639	1,632	1,789	1,872	1,948	2,106
Other	594	718	748	901	908	1,065	1,158	1,220	1,279
Engineering	834	929	946	988	962	1,055	1,060	1,108	1,155
Aerospace engineering	17	23	17	15	24	16	22	23	26
Chemical engineering	139	153	172	166	157	153	139	138	147
Civil engineering	159	213	212	198	198	217	229	233	252
Electrical engineering	184	179	166	198	206	247	244	293	240
Industrial engineering	140	142	143	185	157	183	144	150	181
Materials engineering	14	43	11	8	11	14	23	18	15
Mechanical engineering	106	105	152	131	139	138	156	144	180
Other	75	71	73	87	70	87	103	109	114
Non-S&E	29,793	31,443	32,665	38,207	39,087	41,607	43,730	46,034	48,212
American Indian/Alaskan Native									
All fields	4,002	4,323	4,627	5,074	5,141	5,253	5,636	5,957	5,728
S&E	1,127	1,255	1,270	1,445	1,478	1,465	1,634	1,760	1,746
Sciences	1,079	1,188	1,223	1,356	1,414	1,391	1,560	1,670	1,666
Agricultural sciences	58	70	68	90	97	69	91	89	82
Biological sciences	174	184	208	223	237	247	240	263	308
Computer sciences	39	28	36	59	78	85	82	93	78
Earth, atmospheric, and ocean sciences	7	16	13	21	16	9	8	20	14
Atmospheric sciences	1	0	0	1	0	0	2	0	0
Earth sciences	6	16	13	17	16	9	6	20	13
Ocean sciences	0	0	0	3	0	0	0	0	1
Mathematics and statistics	23	28	27	38	23	28	35	22	28
Physical sciences	23	27	28	32	33	40	48	29	42
Astronomy	0	0	0	1	2	1	3	0	2
Chemistry	20	21	24	26	23	32	40	25	32
Physics	2	3	2	4	6	7	5	3	7
Other	1	3	2	1	2	0	0	1	1
Psychology	338	372	368	390	405	417	424	469	421
Social sciences	417	463	475	503	525	496	632	685	693
Anthropology	47	57	53	57	61	61	74	69	70
Area and ethnic studies	42	36	45	52	60	78	85	88	84
Economics	24	23	23	22	24	21	36	41	31
History of science	0	0	0	0	0	0	0	0	0
Linguistics	2	3	5	9	1	2	4	2	8
Political science and public administration	116	135	124	123	121	121	155	201	166
Sociology	131	139	133	153	159	137	180	168	191
Other	55	70	92	87	99	76	98	116	143
Engineering	48	67	47	89	64	74	74	90	80
Aerospace engineering	0	1	1	1	1	2	1	7	4
Chemical engineering	14	8	6	12	9	12	9	11	14
Civil engineering	15	24	14	26	26	18	23	17	19
Electrical engineering	4	7	5	13	8	10	21	20	11
Industrial engineering	1	8	2	8	4	5	4	9	9
Materials engineering	0	1	2	1	1	2	0	2	1
Mechanical engineering	6	9	7	12	12	17	7	12	14
Other	8	9	10	16	3	8	9	12	8

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Non-S&E	2,875	3,068	3,357	3,629	3,663	3,788	4,002	4,197	3,982
Other or unknown race/ethnicity									
All fields	14,287	15,260	16,758	23,822	27,047	32,322	37,191	42,407	44,513
S&E	4,136	4,576	5,041	6,955	7,856	9,106	10,383	11,832	12,514
Sciences	3,930	4,364	4,854	6,658	7,512	8,681	9,882	11,365	11,978
Agricultural sciences	171	181	203	288	317	355	370	385	383
Biological sciences	653	770	920	1,149	1,266	1,382	1,532	1,688	1,839
Computer sciences	145	238	286	433	557	708	881	1,227	935
Earth, atmospheric, and ocean sciences	34	39	48	53	60	73	63	92	82
Atmospheric sciences	0	1	0	1	5	6	1	7	11
Earth sciences	33	37	46	51	54	65	61	82	68
Ocean sciences	1	1	2	1	1	2	1	3	3
Mathematics and statistics	106	114	121	154	206	203	232	279	295
Physical sciences	99	109	163	160	173	254	233	269	288
Astronomy	3	1	4	1	4	8	4	10	21
Chemistry	62	77	120	124	128	176	168	194	192
Physics	21	17	17	30	33	51	51	58	64
Other	13	14	22	5	8	19	10	7	11
Psychology	1,188	1,336	1,372	1,956	2,179	2,593	2,735	2,891	3,231
Social sciences	1,534	1,577	1,741	2,465	2,754	3,113	3,836	4,534	4,925
Anthropology	164	159	177	269	290	323	393	436	419
Area and ethnic studies	91	108	99	181	184	220	242	300	307
Economics	177	141	171	256	286	324	384	439	465
History of science	0	0	0	8	8	6	2	5	5
Linguistics	23	24	15	34	25	34	50	69	67
Political science and public administration	420	387	464	707	807	902	1,241	1,495	1,811
Sociology	360	413	468	598	664	763	835	932	1,024
Other	299	345	347	412	490	541	689	858	827
Engineering	206	212	187	297	344	425	501	467	536
Aerospace engineering	5	4	2	11	9	8	14	20	13
Chemical engineering	38	27	30	46	54	53	75	47	42
Civil engineering	53	48	49	56	62	84	95	72	98
Electrical engineering	44	48	44	49	87	104	141	141	141
Industrial engineering	9	17	11	18	20	35	32	24	38
Materials engineering	8	4	1	9	6	15	17	12	16
Mechanical engineering	24	31	27	55	61	55	57	79	87
Other	25	33	23	53	45	71	70	72	101
Non-S&E	10,151	10,684	11,717	16,867	19,191	23,216	26,808	30,575	31,999
Temporary resident									
All fields	16,356	17,151	17,435	18,181	18,629	19,808	20,566	21,309	21,645
S&E	5,049	5,257	5,272	6,036	6,255	6,678	7,228	7,576	7,478
Sciences	4,429	4,581	4,644	5,230	5,478	5,926	6,451	6,667	6,519
Agricultural sciences	111	91	124	125	129	149	152	147	157
Biological sciences	754	793	743	829	857	919	935	1,011	1,244
Computer sciences	608	573	624	905	1,056	1,232	1,470	1,416	949
Earth, atmospheric, and ocean sciences	18	29	34	17	13	26	27	25	36
Atmospheric sciences	0	1	2	1	1	2	2	1	4
Earth sciences	17	25	31	16	12	21	24	23	28
Ocean sciences	1	3	1	0	0	3	1	1	4
Mathematics and statistics	172	213	167	175	160	176	227	297	308

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physical sciences	231	211	212	208	235	230	221	248	290
Astronomy	1	1	3	3	6	7	8	6	11
Chemistry	199	174	174	159	180	171	166	184	214
Physics	25	33	29	40	46	46	44	51	56
Other	6	3	6	6	3	6	3	7	9
Psychology	741	794	874	990	1,013	1,059	1,114	1,167	1,186
Social sciences	1,794	1,877	1,866	1,981	2,015	2,135	2,305	2,356	2,349
Anthropology	87	111	69	78	82	77	69	75	81
Area and ethnic studies	97	125	123	122	122	109	108	114	104
Economics	620	650	658	657	729	821	871	894	903
History of science	0	0	1	0	2	1	2	0	0
Linguistics	67	70	78	67	60	69	62	60	60
Political science and public administration	570	546	593	675	646	664	727	772	736
Sociology	217	202	207	211	195	207	254	226	232
Other	136	173	137	171	179	187	212	215	233
Engineering	620	676	628	806	777	752	777	909	959
Aerospace engineering	15	12	13	14	24	21	22	26	22
Chemical engineering	144	157	121	142	114	129	123	120	133
Civil engineering	70	92	79	97	90	81	70	89	86
Electrical engineering	206	215	193	283	271	287	305	353	372
Industrial engineering	81	79	94	115	115	106	99	100	118
Materials engineering	6	6	8	8	16	6	6	16	10
Mechanical engineering	35	61	54	77	64	52	68	69	67
Other	63	54	66	70	83	70	84	136	151
Non-S&E	11,307	11,894	12,163	12,145	12,374	13,130	13,338	13,733	14,167

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	528,000	525,282	525,714	536,158	536,023	553,957	575,977	596,192	608,262
S&E	203,341	201,471	200,221	197,669	197,623	204,408	218,698	225,909	230,806
Sciences	151,543	150,589	150,646	150,349	150,279	156,456	167,895	174,491	177,870
Agricultural sciences	9,884	10,094	10,224	9,780	8,976	8,726	8,734	8,327	8,380
Biological sciences	29,216	29,873	30,011	26,946	25,005	24,073	24,049	24,322	25,699
Computer sciences	17,773	18,490	20,235	26,914	31,284	35,631	41,139	42,999	39,329
Earth, atmospheric, and ocean sciences	2,972	2,924	2,722	2,430	2,346	2,282	2,298	2,256	2,299
Atmospheric sciences	348	348	339	376	324	374	386	369	436
Earth sciences	2,504	2,445	2,262	1,950	1,934	1,788	1,846	1,812	1,795
Ocean sciences	120	131	121	104	88	120	66	75	68
Mathematics and statistics	7,084	6,834	6,435	6,131	5,958	6,511	7,003	7,437	8,215
Physical sciences	9,694	9,382	9,279	8,590	8,252	8,034	8,238	8,238	8,610
Astronomy	93	94	110	106	145	160	161	169	188
Chemistry	6,091	6,043	5,900	5,483	5,047	4,719	4,650	4,550	4,791
Physics	3,019	2,741	2,789	2,638	2,701	2,825	3,082	3,248	3,307
Other	491	504	480	363	359	330	345	271	324
Psychology	19,965	19,491	19,057	17,540	16,701	17,397	17,616	18,302	19,103
Social sciences	54,955	53,501	52,683	52,018	51,757	53,802	58,818	62,610	66,235
Anthropology	2,331	2,446	2,414	2,315	2,192	2,272	2,313	2,349	2,360
Area and ethnic studies	1,980	2,001	2,000	2,045	1,904	2,036	2,055	2,162	2,345
Economics	12,524	12,253	12,453	13,016	13,453	14,438	15,775	16,652	17,023
History of science	12	14	21	40	45	40	49	67	53
Linguistics	181	184	197	229	245	249	294	330	324
Political science and public administration	21,578	19,953	19,334	18,092	18,014	18,830	21,269	23,065	25,092
Sociology	7,794	7,846	7,762	7,657	7,440	7,307	7,553	7,720	8,438
Other	8,555	8,804	8,502	8,624	8,464	8,630	9,510	10,265	10,600
Engineering	51,798	50,882	49,575	47,320	47,344	47,952	50,803	51,418	52,936
Aerospace engineering	1,395	1,088	1,050	1,029	1,194	1,435	1,633	1,905	1,980
Chemical engineering	4,537	4,701	4,525	4,016	4,033	3,823	3,532	3,352	3,113
Civil engineering	9,629	9,441	8,946	7,263	6,908	6,667	7,118	7,120	7,448
Electrical engineering	14,695	14,416	14,310	15,322	15,829	16,257	17,820	18,310	18,579
Industrial engineering	2,630	2,918	2,968	2,630	2,594	2,635	2,627	2,542	2,669
Materials engineering	781	804	772	704	667	648	674	595	624
Mechanical engineering	12,773	12,171	11,727	11,325	11,421	11,594	12,183	12,416	12,955
Other	5,358	5,343	5,277	5,031	4,698	4,893	5,216	5,178	5,568
Non-S&E	324,659	323,811	325,493	338,489	338,400	349,549	357,279	370,283	377,456
U.S. citizen/permanent resident									
All fields	506,569	503,659	504,262	515,544	515,173	532,641	553,720	573,326	585,459
S&E	193,643	191,991	190,784	188,521	188,164	194,763	208,197	214,865	219,840
Sciences	145,988	145,230	145,224	144,928	144,462	150,326	160,892	167,085	170,682
Agricultural sciences	9,725	9,932	10,055	9,647	8,857	8,613	8,616	8,225	8,263
Biological sciences	28,603	29,204	29,331	26,399	24,425	23,535	23,447	23,680	24,977
Computer sciences	16,195	17,048	18,722	24,933	28,948	32,975	37,923	39,554	36,402
Earth, atmospheric, and ocean sciences	2,936	2,875	2,674	2,401	2,310	2,249	2,268	2,231	2,255
Atmospheric sciences	347	338	337	369	323	370	380	367	430
Earth sciences	2,473	2,410	2,218	1,933	1,900	1,760	1,822	1,790	1,758
Ocean sciences	116	127	119	99	87	119	66	74	67
Mathematics and statistics	6,705	6,514	6,149	5,827	5,692	6,233	6,608	7,052	7,762
Physical sciences	9,293	9,000	8,898	8,266	7,929	7,719	7,936	7,895	8,230
Astronomy	86	87	102	105	138	151	154	165	179

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemistry	5,875	5,821	5,689	5,298	4,892	4,547	4,490	4,384	4,607
Physics	2,851	2,598	2,640	2,518	2,565	2,704	2,958	3,110	3,162
Other	481	494	467	345	334	317	334	236	282
Psychology	19,690	19,236	18,761	17,266	16,431	17,089	17,336	17,998	18,785
Social sciences	52,841	51,421	50,634	50,189	49,870	51,913	56,758	60,450	64,008
Anthropology	2,301	2,384	2,381	2,277	2,154	2,235	2,288	2,318	2,326
Area and ethnic studies	1,874	1,928	1,946	1,989	1,859	1,985	2,003	2,112	2,286
Economics	11,357	11,079	11,328	11,982	12,358	13,355	14,598	15,376	15,726
History of science	12	14	21	39	44	39	48	67	52
Linguistics	171	168	175	213	228	237	276	316	307
Political science and public administration	21,018	19,447	18,748	17,613	17,513	18,332	20,712	22,530	24,562
Sociology	7,687	7,749	7,660	7,569	7,377	7,219	7,458	7,620	8,341
Other	8,421	8,652	8,375	8,507	8,337	8,511	9,375	10,111	10,408
Engineering	47,655	46,761	45,560	43,593	43,702	44,437	47,305	47,780	49,158
Aerospace engineering	1,287	971	926	922	1,070	1,334	1,495	1,757	1,831
Chemical engineering	4,112	4,287	4,139	3,713	3,723	3,505	3,296	3,104	2,835
Civil engineering	9,261	9,059	8,515	6,901	6,586	6,377	6,839	6,894	7,208
Electrical engineering	12,914	12,761	12,666	13,769	14,258	14,675	16,073	16,390	16,632
Industrial engineering	2,263	2,517	2,576	2,264	2,234	2,299	2,324	2,261	2,392
Materials engineering	758	782	747	675	641	625	649	582	594
Mechanical engineering	12,026	11,324	10,984	10,613	10,741	10,963	11,655	11,871	12,375
Other	5,034	5,060	5,007	4,736	4,449	4,659	4,974	4,921	5,291
Non-S&E	312,926	311,668	313,478	327,023	327,009	337,878	345,523	358,461	365,619
White									
All fields	399,132	392,541	389,007	388,171	383,832	394,159	405,401	416,122	422,255
S&E	148,562	145,094	142,372	137,288	135,184	139,654	147,682	151,231	153,884
Sciences	112,555	110,483	108,720	105,503	103,474	107,367	113,504	116,944	119,016
Agricultural sciences	8,799	9,010	9,062	8,554	7,829	7,550	7,503	7,187	7,216
Biological sciences	21,087	21,417	20,935	18,679	17,039	16,572	16,317	16,567	17,291
Computer sciences	12,009	12,247	13,274	16,748	19,043	21,539	24,096	24,638	23,001
Earth, atmospheric, and ocean sciences	2,678	2,651	2,439	2,157	2,053	1,988	1,996	1,971	1,999
Atmospheric sciences	328	316	324	335	280	334	333	332	388
Earth sciences	2,250	2,229	2,016	1,735	1,700	1,555	1,614	1,572	1,557
Ocean sciences	100	106	99	87	73	99	49	67	54
Mathematics and statistics	5,215	5,045	4,739	4,346	4,245	4,688	4,855	5,247	5,590
Physical sciences	7,288	7,044	6,851	6,282	5,993	5,886	6,069	6,020	6,260
Astronomy	67	75	82	88	119	119	130	131	145
Chemistry	4,487	4,406	4,224	3,876	3,521	3,334	3,314	3,228	3,426
Physics	2,343	2,152	2,159	2,043	2,076	2,175	2,359	2,493	2,478
Other	391	411	386	275	277	258	266	168	211
Psychology	15,170	14,520	13,918	12,394	11,585	11,931	12,207	12,696	13,105
Social sciences	40,309	38,549	37,502	36,343	35,687	37,213	40,461	42,618	44,554
Anthropology	1,861	1,922	1,907	1,784	1,661	1,709	1,757	1,737	1,748
Area and ethnic studies	1,185	1,194	1,153	1,136	1,031	1,120	1,111	1,168	1,200
Economics	8,613	8,367	8,379	8,611	8,744	9,564	10,263	10,620	10,718
History of science	11	11	17	25	27	25	32	48	40
Linguistics	117	135	125	151	175	185	201	219	204
Political science and public administration	16,403	14,841	14,327	13,257	13,095	13,642	15,392	16,634	17,920
Sociology	5,438	5,311	5,122	4,954	4,790	4,666	4,813	4,793	5,222
Other	6,681	6,768	6,472	6,425	6,164	6,302	6,892	7,399	7,502
Engineering	36,007	34,611	33,652	31,785	31,710	32,287	34,178	34,287	34,868
Aerospace engineering	989	729	725	724	842	1,047	1,160	1,347	1,429

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemical engineering	3,222	3,234	3,102	2,791	2,832	2,703	2,508	2,353	2,139
Civil engineering	7,403	7,130	6,679	5,383	5,213	5,097	5,492	5,459	5,670
Electrical engineering	8,558	8,415	8,294	8,734	8,885	8,964	9,865	9,888	9,908
Industrial engineering	1,716	1,670	1,765	1,654	1,637	1,701	1,643	1,646	1,705
Materials engineering	634	644	603	554	521	518	510	434	442
Mechanical engineering	9,465	8,838	8,572	8,281	8,380	8,658	9,223	9,455	9,708
Other	4,020	3,951	3,912	3,664	3,400	3,599	3,777	3,705	3,867
Non-S&E	250,570	247,447	246,635	250,883	248,648	254,505	257,719	264,891	268,371
Asian/Pacific Islander									
All fields	29,954	31,732	32,588	34,568	34,205	35,739	37,776	38,395	40,428
S&E	16,676	17,626	18,176	18,572	18,975	19,348	20,784	21,166	22,069
Sciences	11,312	12,015	12,741	13,382	13,634	14,081	15,227	15,558	15,914
Agricultural sciences	136	167	188	180	143	161	177	149	151
Biological sciences	3,880	4,008	4,181	3,565	3,213	2,884	2,908	2,937	3,329
Computer sciences	1,703	1,954	2,328	3,660	4,280	4,855	5,531	5,187	4,487
Earth, atmospheric, and ocean sciences	67	46	45	53	43	37	44	44	42
Atmospheric sciences	6	3	4	10	8	4	5	6	8
Earth sciences	57	35	33	40	28	29	35	34	33
Ocean sciences	4	8	8	3	7	4	4	4	1
Mathematics and statistics	520	472	444	447	482	515	602	671	793
Physical sciences	841	835	858	783	687	622	589	628	623
Astronomy	8	3	9	5	2	12	11	8	12
Chemistry	627	659	664	599	536	464	406	434	410
Physics	181	145	170	162	138	130	150	170	183
Other	25	28	15	17	11	16	22	16	18
Psychology	1,125	1,205	1,223	1,038	1,044	1,117	1,072	1,049	1,194
Social sciences	3,040	3,328	3,474	3,656	3,742	3,890	4,304	4,893	5,295
Anthropology	102	119	115	103	93	124	108	108	104
Area and ethnic studies	216	196	227	250	224	213	250	260	302
Economics	1,199	1,278	1,420	1,600	1,727	1,808	2,011	2,261	2,339
History of science	1	2	2	7	5	6	8	8	6
Linguistics	11	13	15	22	16	16	19	28	27
Political science and public administration	888	983	972	857	890	918	1,050	1,222	1,385
Sociology	312	391	388	420	375	400	409	493	585
Other	311	346	335	397	412	405	449	513	547
Engineering	5,364	5,611	5,435	5,190	5,341	5,267	5,557	5,608	6,155
Aerospace engineering	138	102	86	82	81	104	124	143	149
Chemical engineering	464	548	553	436	404	323	302	294	262
Civil engineering	716	763	636	457	372	311	319	310	356
Electrical engineering	2,280	2,262	2,298	2,613	2,881	3,035	3,215	3,278	3,521
Industrial engineering	218	328	273	208	201	212	230	223	221
Materials engineering	57	55	81	50	57	51	61	67	63
Mechanical engineering	1,016	970	966	830	830	743	782	719	856
Other	475	583	542	514	515	488	524	574	727
Non-S&E	13,278	14,106	14,412	15,996	15,230	16,391	16,992	17,229	18,359
Black									
All fields	32,223	32,726	33,653	35,648	36,378	37,206	38,991	40,692	41,918
S&E	11,230	11,495	11,698	11,976	11,963	12,421	13,255	13,739	13,995
Sciences	9,266	9,475	9,721	10,003	10,105	10,530	11,237	11,623	11,884
Agricultural sciences	170	171	179	183	167	179	196	168	177
Biological sciences	1,236	1,304	1,448	1,380	1,326	1,276	1,292	1,317	1,295



TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Computer sciences	1,223	1,253	1,372	1,827	2,302	2,630	3,117	3,267	3,083
Earth, atmospheric, and ocean sciences	31	37	33	27	32	30	33	25	30
Atmospheric sciences	2	7	4	6	2	5	7	10	5
Earth sciences	25	26	28	21	29	22	22	14	21
Ocean sciences	4	4	1	0	1	3	4	1	4
Mathematics and statistics	449	483	462	434	357	373	374	337	416
Physical sciences	451	429	488	445	416	407	377	366	380
Astronomy	2	0	1	1	2	2	0	1	1
Chemistry	304	302	340	327	314	277	255	246	253
Physics	111	101	114	89	90	113	106	104	109
Other	34	26	33	28	10	15	16	15	17
Psychology	1,418	1,591	1,544	1,646	1,557	1,537	1,563	1,573	1,632
Social sciences	4,288	4,207	4,195	4,061	3,948	4,098	4,285	4,570	4,871
Anthropology	52	66	67	70	70	54	60	81	77
Area and ethnic studies	221	232	229	245	212	274	237	259	307
Economics	602	531	556	592	562	628	708	754	770
History of science	0	1	0	3	2	1	3	3	1
Linguistics	8	2	4	2	4	5	8	2	7
Political science and public administration	1,614	1,537	1,445	1,329	1,299	1,326	1,443	1,520	1,639
Sociology	1,177	1,204	1,225	1,181	1,167	1,150	1,142	1,182	1,250
Other	614	634	669	639	632	660	684	769	820
Engineering	1,964	2,020	1,977	1,973	1,858	1,891	2,018	2,116	2,111
Aerospace engineering	45	44	33	34	31	34	48	58	61
Chemical engineering	127	165	165	169	179	156	149	149	121
Civil engineering	266	275	254	256	215	191	181	187	201
Electrical engineering	778	777	782	753	759	781	929	1,019	959
Industrial engineering	110	122	156	130	120	115	146	128	155
Materials engineering	18	13	14	10	16	12	13	8	8
Mechanical engineering	451	459	398	443	381	407	348	366	411
Other	169	165	175	178	157	195	204	201	195
Non-S&E	20,993	21,231	21,955	23,672	24,415	24,785	25,736	26,953	27,923
Hispanic									
All fields	29,335	30,550	31,716	34,657	35,305	36,747	38,512	40,347	41,509
S&E	10,999	11,500	11,968	12,524	12,741	13,121	14,221	14,653	15,280
Sciences	8,102	8,304	8,789	9,437	9,687	10,040	10,924	11,291	11,821
Agricultural sciences	282	295	318	315	297	305	300	294	294
Biological sciences	1,562	1,599	1,823	1,736	1,756	1,619	1,723	1,586	1,664
Computer sciences	827	890	961	1,460	1,628	1,878	2,342	2,526	2,328
Earth, atmospheric, and ocean sciences	66	59	62	74	74	84	68	69	72
Atmospheric sciences	5	6	2	8	10	9	8	9	13
Earth sciences	55	50	51	60	59	65	55	58	54
Ocean sciences	6	3	9	6	5	10	5	2	5
Mathematics and statistics	332	326	318	326	330	340	372	368	468
Physical sciences	422	409	412	431	456	427	449	435	453
Astronomy	3	1	9	5	9	8	5	17	9
Chemistry	305	293	288	315	312	283	304	260	287
Physics	96	97	95	94	118	125	130	141	140
Other	18	18	20	17	17	11	10	17	17
Psychology	1,326	1,285	1,382	1,428	1,396	1,562	1,486	1,592	1,700
Social sciences	3,285	3,441	3,513	3,667	3,750	3,825	4,184	4,421	4,842
Anthropology	132	160	148	153	164	152	161	174	167

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Area and ethnic studies	180	214	250	229	233	226	232	232	266
Economics	530	535	565	644	702	675	737	825	886
History of science	0	0	2	0	3	3	1	2	2
Linguistics	15	7	13	15	16	9	14	25	18
Political science and public administration	1,445	1,396	1,348	1,345	1,323	1,417	1,580	1,665	1,954
Sociology	518	592	638	678	659	651	683	717	768
Other	465	537	549	603	650	692	776	781	781
Engineering	2,897	3,196	3,179	3,087	3,054	3,081	3,297	3,362	3,459
Aerospace engineering	72	70	61	52	68	81	88	98	113
Chemical engineering	192	226	221	214	184	200	181	175	186
Civil engineering	579	661	708	564	544	544	569	603	636
Electrical engineering	868	944	904	1,085	1,096	1,164	1,184	1,258	1,281
Industrial engineering	176	309	307	206	199	189	220	182	183
Materials engineering	28	46	31	30	23	19	27	34	44
Mechanical engineering	743	727	714	715	741	681	794	791	782
Other	239	213	233	221	199	203	234	221	234
Non-S&E	18,336	19,050	19,748	22,133	22,564	23,626	24,291	25,694	26,229
American Indian/Alaskan Native									
All fields	2,811	2,915	3,079	3,357	3,523	3,415	3,606	3,957	3,828
S&E	1,022	1,043	1,122	1,166	1,318	1,177	1,258	1,471	1,421
Sciences	827	847	915	927	1,126	943	1,012	1,228	1,152
Agricultural sciences	81	76	83	100	118	89	72	98	78
Biological sciences	143	157	191	156	194	163	140	154	188
Computer sciences	50	71	76	113	193	144	181	323	171
Earth, atmospheric, and ocean sciences	16	15	12	22	19	17	16	11	11
Atmospheric sciences	0	1	0	3	5	1	2	1	1
Earth sciences	14	10	12	18	13	14	12	10	10
Ocean sciences	2	4	0	1	1	2	2	0	0
Mathematics and statistics	30	29	38	31	28	29	30	37	48
Physical sciences	58	42	53	33	40	43	46	47	61
Astronomy	0	0	0	1	0	1	1	1	1
Chemistry	37	33	40	23	24	25	31	25	33
Physics	19	8	12	8	13	14	12	17	26
Other	2	1	1	1	3	3	2	4	1
Psychology	132	124	147	128	156	125	120	127	131
Social sciences	317	333	315	344	378	333	407	431	464
Anthropology	28	29	27	32	32	24	37	34	28
Area and ethnic studies	20	26	30	28	46	43	43	57	50
Economics	43	45	46	49	44	44	59	67	64
History of science	0	0	0	1	0	0	0	0	0
Linguistics	1	2	5	1	1	0	5	2	4
Political science and public administration	112	118	91	108	113	120	131	151	176
Sociology	55	53	64	67	66	47	64	60	68
Other	58	60	52	58	76	55	68	60	74
Engineering	195	196	207	239	192	234	246	243	269
Aerospace engineering	5	2	9	6	7	15	9	16	12
Chemical engineering	17	21	25	30	22	21	25	18	16
Civil engineering	44	47	48	58	39	49	44	47	54
Electrical engineering	51	43	48	68	48	60	78	68	73
Industrial engineering	7	11	13	15	13	16	8	6	18
Materials engineering	4	5	1	4	3	4	3	4	4
Mechanical engineering	51	36	40	41	39	44	51	61	58
Other	16	31	23	17	21	25	28	23	34

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Non-S&E	1,789	1,872	1,957	2,191	2,205	2,238	2,348	2,486	2,407
Other or unknown race/ethnicity									
All fields	13,114	13,195	14,219	19,143	21,930	25,375	29,434	33,813	35,521
S&E	5,154	5,233	5,448	6,995	7,983	9,042	10,997	12,605	13,191
Sciences	3,926	4,106	4,338	5,676	6,436	7,365	8,988	10,441	10,895
Agricultural sciences	257	213	225	315	303	329	368	329	347
Biological sciences	695	719	753	883	897	1,021	1,067	1,119	1,210
Computer sciences	383	633	711	1,125	1,502	1,929	2,656	3,613	3,332
Earth, atmospheric, and ocean sciences	78	67	83	68	89	93	111	111	101
Atmospheric sciences	6	5	3	7	18	17	25	9	15
Earth sciences	72	60	78	59	71	75	84	102	83
Ocean sciences	0	2	2	2	0	1	2	0	3
Mathematics and statistics	159	159	148	243	250	288	375	392	447
Physical sciences	233	241	236	292	337	334	406	399	453
Astronomy	6	8	1	5	6	9	7	7	11
Chemistry	115	128	133	158	185	164	180	191	198
Physics	101	95	90	122	130	147	201	185	226
Other	11	10	12	7	16	14	18	16	18
Psychology	519	511	547	632	693	817	888	961	1,023
Social sciences	1,602	1,563	1,635	2,118	2,365	2,554	3,117	3,517	3,982
Anthropology	126	88	117	135	134	172	165	184	202
Area and ethnic studies	52	66	57	101	113	109	130	136	161
Economics	370	323	362	486	579	636	820	849	949
History of science	0	0	0	3	7	4	4	6	3
Linguistics	19	9	13	22	16	22	29	40	47
Political science and public administration	556	572	565	717	793	909	1,116	1,338	1,488
Sociology	187	198	223	269	320	305	347	375	448
Other	292	307	298	385	403	397	506	589	684
Engineering	1,228	1,127	1,110	1,319	1,547	1,677	2,009	2,164	2,296
Aerospace engineering	38	24	12	24	41	53	66	95	67
Chemical engineering	90	93	73	73	102	102	131	115	111
Civil engineering	253	183	190	183	203	185	234	288	291
Electrical engineering	379	320	340	516	589	671	802	879	890
Industrial engineering	36	77	62	51	64	66	77	76	110
Materials engineering	17	19	17	27	21	21	35	35	33
Mechanical engineering	300	294	294	303	370	430	457	479	560
Other	115	117	122	142	157	149	207	197	234
Non-S&E	7,960	7,962	8,771	12,148	13,947	16,333	18,437	21,208	22,330
Temporary resident									
All fields	21,431	21,623	21,452	20,614	20,850	21,316	22,257	22,866	22,803
S&E	9,698	9,480	9,437	9,148	9,459	9,645	10,501	11,044	10,966
Sciences	5,555	5,359	5,422	5,421	5,817	6,130	7,003	7,406	7,188
Agricultural sciences	159	162	169	133	119	113	118	102	117
Biological sciences	613	669	680	547	580	538	602	642	722
Computer sciences	1,578	1,442	1,513	1,981	2,336	2,656	3,216	3,445	2,927
Earth, atmospheric, and ocean sciences	36	49	48	29	36	33	30	25	44
Atmospheric sciences	1	10	2	7	1	4	6	2	6
Earth sciences	31	35	44	17	34	28	24	22	37
Ocean sciences	4	4	2	5	1	1	0	1	1
Mathematics and statistics	379	320	286	304	266	278	395	385	453

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physical sciences	401	382	381	324	323	315	302	343	380
Astronomy	7	7	8	1	7	9	7	4	9
Chemistry	216	222	211	185	155	172	160	166	184
Physics	168	143	149	120	136	121	124	138	145
Other	10	10	13	18	25	13	11	35	42
Psychology	275	255	296	274	270	308	280	304	318
Social sciences	2,114	2,080	2,049	1,829	1,887	1,889	2,060	2,160	2,227
Anthropology	30	62	33	38	38	37	25	31	34
Area and ethnic studies	106	73	54	56	45	51	52	50	59
Economics	1,167	1,174	1,125	1,034	1,095	1,083	1,177	1,276	1,297
History of science	0	0	0	1	1	1	1	0	1
Linguistics	10	16	22	16	17	12	18	14	17
Political science and public administration	560	506	586	479	501	498	557	535	530
Sociology	107	97	102	88	63	88	95	100	97
Other	134	152	127	117	127	119	135	154	192
Engineering	4,143	4,121	4,015	3,727	3,642	3,515	3,498	3,638	3,778
Aerospace engineering	108	117	124	107	124	101	138	148	149
Chemical engineering	425	414	386	303	310	318	236	248	278
Civil engineering	368	382	431	362	322	290	279	226	240
Electrical engineering	1,781	1,655	1,644	1,553	1,571	1,582	1,747	1,920	1,947
Industrial engineering	367	401	392	366	360	336	303	281	277
Materials engineering	23	22	25	29	26	23	25	13	30
Mechanical engineering	747	847	743	712	680	631	528	545	580
Other	324	283	270	295	249	234	242	257	277
Non-S&E	11,733	12,143	12,015	11,466	11,391	11,671	11,756	11,822	11,837

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE C-14. Bachelor's degrees, by race/ethnicity, citizenship, sex, and field: 2004

Race/ethnicity, citizenship, and sex	All fields	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
							Number of recipients						
All recipients	1,407,009	452,338	387,663	15,622	63,892	57,405	3,903	13,755	14,240	82,510	136,336	64,675	954,671
White	962,887	294,105	252,248	13,140	41,910	30,357	3,338	9,639	9,833	56,515	87,516	41,857	668,782
Asian/Pacific Islander	86,030	41,022	33,397	397	7,698	7,462	85	1,244	1,229	4,345	10,937	7,625	45,008
Black	122,618	38,050	34,838	360	4,997	5,934	65	784	958	8,479	13,261	3,212	84,568
Hispanic	105,165	33,077	28,607	624	4,454	3,535	131	676	885	7,252	11,050	4,470	72,088
American Indian/Alaskan Native	9,914	3,201	2,868	180	402	416	31	59	76	596	1,108	333	6,713
Other or unknown race/ethnicity	76,220	24,302	21,671	686	2,792	4,840	203	671	668	3,852	7,959	2,631	51,918
Temporary resident	44,175	18,581	14,034	235	1,639	4,861	50	682	591	1,471	4,505	4,547	25,594
Female	810,817	227,813	214,556	8,147	39,913	14,406	1,647	6,318	6,002	64,208	73,915	13,257	583,004
White	546,765	143,951	136,381	6,696	25,579	5,719	1,367	4,392	3,813	43,819	44,996	7,570	402,814
Asian/Pacific Islander	47,635	19,905	17,888	257	4,792	2,275	41	573	601	3,296	6,053	2,017	27,730
Black	81,926	24,391	23,295	234	3,690	2,667	40	447	592	6,906	8,719	1,096	57,535
Hispanic	64,818	18,534	17,426	363	2,915	1,009	62	308	450	5,660	6,659	1,108	46,284
American Indian/Alaskan Native	5,957	1,744	1,654	86	257	93	20	22	29	469	678	90	4,213
Other or unknown race/ethnicity	42,407	11,735	11,268	368	1,679	1,227	92	279	269	2,891	4,463	467	30,672
Temporary resident	21,309	7,553	6,644	143	1,001	1,416	25	297	248	1,167	2,347	909	13,756
Male	596,192	224,525	173,107	7,475	23,979	42,999	2,256	7,437	8,238	18,302	62,421	51,418	371,667
White	416,122	150,154	115,867	6,444	16,331	24,638	1,971	5,247	6,020	12,696	42,520	34,287	265,968
Asian/Pacific Islander	38,395	21,117	15,509	140	2,906	5,187	44	671	628	1,049	4,884	5,608	17,278
Black	40,692	13,659	11,543	126	1,307	3,267	25	337	366	1,573	4,542	2,116	27,033
Hispanic	40,347	14,543	11,181	261	1,539	2,526	69	368	435	1,592	4,391	3,362	25,804
American Indian/Alaskan Native	3,957	1,457	1,214	94	145	323	11	37	47	127	430	243	2,500
Other or unknown race/ethnicity	33,813	12,567	10,403	318	1,113	3,613	111	392	399	961	3,496	2,164	21,246
Temporary resident	22,866	11,028	7,390	92	638	3,445	25	385	343	304	2,158	3,638	11,838
	Percent												
Female	57.6	50.4	55.3	52.2	62.5	25.1	42.2	45.9	42.1	77.8	54.2	20.5	61.1
White	56.8	48.9	54.1	51.0	61.0	18.8	41.0	45.6	38.8	77.5	51.4	18.1	60.2
Asian/Pacific Islander	55.4	48.5	53.6	64.7	62.2	30.5	48.2	46.1	48.9	75.9	55.3	26.5	61.6
Black	66.8	64.1	66.9	65.0	73.8	44.9	61.5	57.0	61.8	81.4	65.7	34.1	68.0
Hispanic	61.6	56.0	60.9	58.2	65.4	28.5	47.3	45.6	50.8	78.0	60.3	24.8	64.2
American Indian/Alaskan Native	60.1	54.5	57.7	47.8	63.9	22.4	64.5	37.3	38.2	78.7	61.2	27.0	62.8
Other or unknown race/ethnicity	55.6	48.3	52.0	53.6	60.1	25.4	45.3	41.6	40.3	75.1	56.1	17.7	59.1
Temporary resident	48.2	40.6	47.3	60.9	61.1	29.1	50.0	43.5	42.0	79.3	52.1	20.0	53.7

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2004.

TABLE C-17. S&E associate's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2001–2005

Academic institution	Associate's degrees	Academic institution	Associate's degrees
<b>Asian/Pacific Islander</b>		<b>Black</b>	
All institutions	25,233	All institutions	44,870
Leading institutions	6,916	Leading institutions	11,530
Honolulu Community College	878	Community College of the Air Force	1,379
Heald College San Jose	638	ECPI College of Technology	1,248
Heald College San Francisco	499	Technical Career Institutes	1,170
Sacramento City College	454	CUNY New York City College of Technology	975
Technical Career Institutes	381	Keiser College Ft Lauderdale	746
San Joaquin Delta College	362	Katharine Gibbs School New York City	602
Heald College Concord	357	ECPI Technical College (Richmond, VA)	504
CUNY New York City College of Technology	332	Essex County College	504
Heald College Hayward	296	Robert Morris College (Chicago, IL)	494
Laney College	292	DeVry University New Jersey	444
CUNY Queensborough Community College	269	Strayer University Washington campus	427
CUNY La Guardia Community College	266	Merritt College	391
Riverside Community College	264	CUNY Bronx Community College	371
DeVry University New Jersey	261	CUNY Borough of Manhattan Community College	359
Solano Community College	243	CUNY Kingsborough Community College	359
Northern Virginia Community College	237	Tidewater Community College	336
Ohlone College	234	Virginia College Birmingham	324
College of Alameda	222	ITT Technical Institute (Cordova, TN)	305
College of Micronesia FSM	222	Central Texas College	301
Santa Ana College	209	Laney College	291
Other institutions	18,317	Other institutions	33,340
<b>Hispanic</b>		<b>American Indian/Alaskan Native</b>	
All institutions	43,189	All institutions	4,897
Leading institutions	10,796	Leading institutions	1,659
Technical Career Institutes	1,208	Dine College	341
South Texas College	787	Oglala Lakota College	134
Riverside Community College	783	Eastern Oklahoma State College	106
Huertas Junior College	672	Blackfeet Community College	99
Citrus College	668	San Juan College	98
San Jacinto College Central campus	556	Tulsa Community College	82
CUNY La Guardia Community College	540	Northeastern Oklahoma A&M College	76
ITT Technical Institute (Torrance, CA)	523	Oklahoma City Community College	71
Katharine Gibbs School New York City	521	Carl Albert State College	64
Texas State Technical College Harlingen	452	Seminole State College	64
ITT Technical Institute (Houston, TX)	449	Albuquerque Technical Vocational Institute	62
ITT Technical Institute (West Covina, CA)	442	ITT Technical Institute (Albuquerque, NM)	59
Mt San Jacinto College	440	Robeson Community College	57
CUNY New York City College of Technology	429	Haskell Indian Nations University	55
ITT Technical Institute (Sylmar, CA)	422	Oklahoma State University Okmulgee	55
CUNY Bronx Community College	418	Murray State College	51
Southwestern College (Chula Vista, CA)	400	DeVry University Arizona	50
ITT Technical Institute (San Bernardino, CA)	378	Mt San Jacinto College	50
DeVry University New Jersey	364	College of the Redwoods	44
Imperial Valley College	344	Rose State College	41
Other institutions	32,393	Other institutions	3,238

NOTES: S&E includes science and engineering technologies and interdisciplinary fields. Institutions awarding the same number of degrees are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001–2005.

TABLE C-19. S&E bachelor's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2001–2005

Academic institution	Bachelor's degrees	Academic institution	Bachelor's degrees
<b>Asian/Pacific Islander</b>		<b>Black</b>	
All institutions	197,796	All institutions	182,449
Leading institutions	77,110	Leading institutions	28,847
University of California Los Angeles	9,245	Florida Agricultural and Mechanical University	2,244
University of California Irvine	8,999	Howard University	1,882
University of California Berkeley	8,516	University of Maryland College Park	1,743
University of California Davis	6,056	Xavier University of Louisiana	1,723
University of California San Diego	5,434	Georgia State University	1,625
University of Washington Seattle	4,230	Spelman College	1,613
Rutgers University New Brunswick/Piscataway	3,719	Morgan State University	1,561
University of Texas at Austin	3,472	North Carolina A & T State University	1,537
University of Hawaii at Manoa	2,787	Southern University and A & M College	1,523
University of Illinois at Urbana Champaign	2,647	Hampton University	1,465
University of Michigan Ann Arbor	2,543	Tennessee State University	1,425
San Jose State University	2,451	Strayer University Washington	1,329
University of California Riverside	2,375	CUNY John Jay College Criminal Justice	1,313
University of Maryland College Park	2,288	Rutgers University New Brunswick/Piscataway	1,261
University of Illinois at Chicago	1,939	Florida State University	1,166
Cornell University	1,913	Ohio State University main campus	1,126
Stony Brook University	1,781	North Carolina State University at Raleigh	1,103
California State Polytechnic University Pomona	1,751	DeVry University Georgia	1,084
University of California Santa Barbara	1,656	Morehouse College	1,066
Stanford University	1,654	Tuskegee University	1,058
University of Southern California	1,654		
Other institutions	120,686	Other institutions	153,602
<b>Hispanic</b>		<b>American Indian/Alaskan Native</b>	
All institutions	159,162	All institutions	14,728
Leading institutions	43,877	Leading institutions	3,734
University of Puerto Rico Mayaguez	5,915	Oklahoma State University main campus	423
University of Puerto Rico Rio Piedras	3,830	University of Oklahoma Norman	398
Florida International University	3,417	Northeastern State University	297
University of California Los Angeles	3,232	University of Washington Seattle	206
University of Texas at Austin	2,421	University of North Carolina at Pembroke	203
University of Texas at San Antonio	2,009	University of New Mexico main campus	194
San Diego State University	1,957	Arizona State University at Tempe	192
University of Florida	1,883	Fort Lewis College	192
California State University Northridge	1,871	George Mason University	188
University of California Santa Barbara	1,735	Southeastern Oklahoma State University	186
University of California Berkeley	1,702	University of Arizona	182
University of California Irvine	1,686	Northern Arizona University	148
Universidad Politecnica de Puerto Rico	1,645	University of California Davis	147
University of California Davis	1,622	DePaul University	125
University of Texas at El Paso	1,583	New Mexico State University main campus	118
University of Texas Pan American	1,537	DeVry University California	113
California State University Los Angeles	1,519	University of California Berkeley	111
Texas A & M University	1,492	University of Montana	105
California State University Fullerton	1,419	University of California Los Angeles	104
University of California Riverside	1,402	East Central University	102
Other institutions	115,285	Other institutions	10,994

NOTE: Institutions awarding the same number of degrees are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001–2005.

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E graduate students	404,856	411,182	413,536	429,242	454,847	474,694	476,195	478,782
Science	304,818	309,491	309,424	319,749	335,179	347,317	352,629	358,309
Agricultural sciences	12,168	12,312	12,023	12,235	12,698	13,197	13,445	13,123
Biological sciences	56,695	56,959	56,282	57,639	61,088	64,701	66,548	68,449
Anatomy	785	749	795	735	906	908	897	938
Biochemistry	5,148	5,101	4,966	4,917	5,190	5,552	5,612	5,814
Biology	14,277	13,989	13,407	13,352	13,822	14,770	15,458	15,668
Biometry and epidemiology	3,514	3,704	3,615	3,817	4,071	4,439	4,674	4,805
Biophysics	737	710	751	877	953	1,032	1,180	1,183
Botany	2,042	1,974	1,904	1,921	1,973	1,901	1,831	1,860
Cell and molecular biology	4,379	4,637	4,820	4,911	5,375	5,689	5,830	6,177
Ecology	1,670	1,704	1,762	1,888	1,967	2,230	2,185	2,165
Entomology and parasitology	1,168	1,145	1,104	1,170	1,191	1,206	1,241	1,126
Genetics	1,727	1,783	1,712	1,841	1,909	2,073	2,129	2,155
Microbiology, immunology, and virology	4,773	4,815	4,814	4,798	5,208	5,256	5,375	5,401
Nutrition	4,486	4,508	4,413	4,429	4,539	4,695	4,771	4,817
Pathology	1,580	1,580	1,531	1,637	1,613	1,541	1,540	1,576
Pharmacology	2,730	2,757	2,963	3,140	3,234	3,357	3,122	3,114
Physiology	2,151	2,083	2,015	1,967	2,076	2,328	2,409	2,399
Zoology	1,586	1,523	1,445	1,411	1,349	1,301	1,236	1,264
Other	3,942	4,197	4,265	4,828	5,712	6,423	7,058	7,987
Computer sciences	38,027	42,478	47,350	52,196	55,269	53,696	50,016	48,046
Earth, atmospheric, and ocean sciences	14,258	14,083	13,941	13,841	14,240	14,620	15,131	14,827
Atmospheric	965	913	963	924	1,036	1,150	1,086	1,146
Earth	6,687	6,637	6,596	6,544	6,712	6,889	7,358	7,212
Ocean	2,562	2,624	2,668	2,585	2,618	2,695	2,801	2,760
Other	4,044	3,909	3,714	3,788	3,874	3,886	3,886	3,709
Mathematics and statistics	16,485	16,257	15,650	16,651	18,163	19,465	19,931	20,210
Mathematics/applied mathematics	13,827	13,521	12,823	13,569	14,702	15,569	15,964	16,106
Statistics	2,658	2,736	2,827	3,082	3,461	3,896	3,967	4,104
Physical sciences	30,575	30,691	30,385	31,038	32,341	34,298	35,761	36,396
Astronomy	820	832	888	916	990	1,080	1,119	1,191
Chemistry	18,482	18,416	18,105	18,366	19,045	20,049	20,776	21,122
Physics	10,809	10,869	10,841	11,248	11,701	12,555	13,298	13,472
Other	464	574	551	508	605	614	568	611
Psychology	52,557	51,727	50,466	50,467	51,165	52,211	54,218	57,412
Clinical	12,733	12,798	12,488	12,488	12,609	13,118	13,771	14,283
General	17,098	16,238	15,624	15,837	15,159	15,580	16,276	16,786
Nonclinical	22,726	22,691	22,354	22,142	23,397	23,513	24,171	26,343
Social sciences	84,053	84,984	83,327	85,682	90,215	95,129	97,579	99,846
Agricultural economics	1,995	2,014	2,079	2,161	2,187	2,318	2,195	2,118
Anthropology (cultural and social)	7,577	7,633	7,626	7,491	7,481	7,789	7,826	7,706
Economics	10,701	10,562	10,748	11,408	12,009	12,316	12,318	11,805
Geography	4,326	4,250	4,036	4,304	4,383	4,721	4,809	4,772
History and philosophy of science	508	557	532	571	663	737	994	965
Linguistics	2,935	2,799	2,674	2,744	2,875	3,028	2,941	3,187
Political science and public administration	30,828	31,372	31,131	31,805	34,934	36,880	39,270	41,106
Sociology	9,058	8,966	8,652	8,812	8,946	9,127	8,874	9,037
Other	16,125	16,831	15,849	16,386	16,737	18,213	18,352	19,150
Engineering	100,038	101,691	104,112	109,493	119,668	127,377	123,566	120,473
Aerospace	3,137	3,349	3,407	3,451	3,685	4,048	4,089	4,170
Agricultural	975	986	943	947	952	1,058	1,041	1,059
Biomedical	2,855	3,069	3,197	3,599	4,338	5,301	5,807	6,067
Chemical	7,093	6,883	7,056	6,913	7,414	7,516	7,452	7,173
Civil	16,517	16,226	16,451	16,665	17,713	18,890	18,561	18,050
Electrical	31,384	31,822	33,611	36,100	39,948	41,763	38,995	37,444
Engineering science/physics	1,701	1,627	1,632	1,798	2,121	2,240	2,198	1,951
Industrial/manufacturing	11,221	11,803	12,119	12,940	14,033	14,313	13,852	13,614
Mechanical	14,696	14,956	15,235	15,852	17,139	18,393	17,852	17,387



Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical and materials	4,680	4,481	4,377	4,721	4,992	5,131	5,059	5,160
Mining	304	328	287	240	267	278	308	279
Nuclear	821	830	792	801	795	885	971	1,013
Petroleum	571	642	627	656	766	849	845	808
Other	4,083	4,689	4,378	4,810	5,505	6,712	6,536	6,298
U.S. citizens and permanent residents	302,879	301,254	290,711	294,711	309,235	327,358	332,624	339,550
Science	240,630	241,066	234,000	237,740	247,873	259,965	266,168	272,912
Agricultural sciences	9,514	9,774	9,612	9,722	10,085	10,601	10,750	10,474
Biological sciences	45,359	45,770	44,521	45,205	47,262	49,865	50,755	52,047
Anatomy	630	596	618	559	707	705	718	750
Biochemistry	3,695	3,646	3,377	3,332	3,459	3,655	3,615	3,725
Biology	12,197	11,997	11,353	11,159	11,377	12,201	12,678	12,674
Biometry and epidemiology	2,835	2,953	2,794	2,914	2,972	3,243	3,462	3,603
Biophysics	571	556	547	614	654	713	805	808
Botany	1,436	1,386	1,320	1,347	1,355	1,317	1,229	1,195
Cell and molecular biology	3,482	3,739	3,789	3,778	4,113	4,257	4,205	4,489
Ecology	1,498	1,530	1,576	1,694	1,749	1,958	1,913	1,916
Entomology and parasitology	877	843	824	895	908	920	938	844
Genetics	1,331	1,400	1,335	1,408	1,485	1,558	1,577	1,590
Microbiology, immunology, and virology	3,813	3,872	3,879	3,794	4,011	4,113	4,147	4,181
Nutrition	3,415	3,444	3,297	3,269	3,377	3,495	3,599	3,674
Pathology	1,292	1,285	1,230	1,344	1,314	1,210	1,224	1,236
Pharmacology	2,154	2,188	2,338	2,492	2,554	2,584	2,318	2,261
Physiology	1,713	1,629	1,569	1,536	1,622	1,807	1,890	1,933
Zoology	1,396	1,364	1,271	1,210	1,130	1,121	1,054	1,053
Other	3,024	3,342	3,404	3,860	4,475	5,008	5,383	6,115
Computer sciences	23,605	25,323	25,088	26,142	28,203	29,420	28,286	27,555
Earth, atmospheric, and ocean sciences	11,759	11,563	11,249	11,059	11,472	11,845	12,344	12,066
Atmospheric	710	639	659	639	730	869	819	863
Earth	5,443	5,413	5,294	5,189	5,333	5,456	5,906	5,785
Ocean	2,029	2,108	2,142	2,071	2,152	2,206	2,304	2,270
Other	3,577	3,403	3,154	3,160	3,257	3,314	3,315	3,148
Mathematics and statistics	11,064	10,330	9,593	10,167	11,139	12,057	12,560	12,814
Mathematics/applied mathematics	9,447	8,861	8,146	8,722	9,488	10,264	10,667	10,856
Statistics	1,617	1,469	1,447	1,445	1,651	1,793	1,893	1,958
Physical sciences	19,837	19,559	18,730	18,835	19,251	20,213	21,206	21,780
Astronomy	607	593	617	633	687	747	749	828
Chemistry	12,457	12,331	11,883	11,797	11,792	12,210	12,685	12,905
Physics	6,379	6,140	5,757	5,991	6,259	6,744	7,280	7,506
Other	394	495	473	414	513	512	492	541
Psychology	50,371	49,488	48,203	47,946	48,308	49,099	51,045	54,384
Clinical	12,370	12,402	12,098	12,060	12,014	12,499	13,337	13,794
General	16,403	15,518	14,812	14,903	14,177	14,472	14,901	15,635
Nonclinical	21,598	21,568	21,293	20,983	22,117	22,128	22,807	24,955
Social sciences	69,121	69,259	67,004	68,664	72,153	76,865	79,222	81,792
Agricultural economics	1,091	1,089	1,065	1,109	1,141	1,221	1,202	1,162
Anthropology (cultural and social)	6,838	6,810	6,797	6,722	6,634	6,967	6,966	6,861
Economics	5,461	5,029	4,941	5,124	5,389	5,699	5,736	5,428
Geography	3,767	3,652	3,408	3,579	3,636	3,937	4,019	3,991
History and philosophy of science	441	498	463	501	595	668	925	886
Linguistics	1,912	1,837	1,714	1,782	1,893	2,065	1,936	2,257
Political science and public administration	27,276	27,453	26,972	27,582	30,280	32,003	34,318	36,234
Sociology	7,949	7,790	7,397	7,505	7,625	7,782	7,606	7,738
Other	14,386	15,101	14,247	14,760	14,960	16,523	16,514	17,235
Engineering	62,249	60,188	56,711	56,971	61,362	67,393	66,456	66,638
Aerospace	1,720	1,817	1,894	1,805	1,999	2,361	2,401	2,528
Agricultural	556	562	546	530	529	568	556	538
Biomedical	2,140	2,218	2,248	2,470	2,822	3,397	3,675	3,928

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	4,208	3,869	3,726	3,418	3,701	3,753	3,768	3,690
Civil	11,555	10,801	10,306	10,072	10,553	11,458	11,436	11,417
Electrical	17,459	16,517	15,315	15,534	16,579	18,118	16,878	16,706
Engineering science/physics	1,149	1,093	955	1,054	1,239	1,230	1,187	1,096
Industrial/manufacturing	7,869	8,073	7,574	7,607	8,318	8,845	8,783	9,065
Mechanical	9,046	8,760	8,097	8,183	8,604	9,643	9,766	9,744
Metallurgical and materials	2,670	2,438	2,265	2,385	2,482	2,546	2,501	2,518
Mining	228	219	155	136	165	167	189	161
Nuclear	527	498	457	445	464	532	616	674
Petroleum	123	148	265	267	298	174	194	192
Other	2,999	3,175	2,908	3,065	3,609	4,601	4,506	4,381
White	220,667	216,750	205,569	206,027	213,144	222,709	225,039	226,137
Science	176,569	174,687	166,486	167,568	172,585	179,240	181,804	183,301
Agricultural sciences	8,093	8,383	8,152	8,147	8,486	8,799	8,936	8,662
Biological sciences	34,323	34,319	33,255	33,193	34,568	35,809	36,057	36,635
Anatomy	484	447	470	440	507	503	491	523
Biochemistry	2,742	2,665	2,532	2,373	2,509	2,515	2,573	2,582
Biology	9,122	8,929	8,447	8,309	8,468	8,921	9,152	9,120
Biometry and epidemiology	1,911	2,022	1,851	1,920	1,964	2,155	2,237	2,227
Biophysics	377	383	374	425	460	502	586	562
Botany	1,210	1,189	1,133	1,122	1,087	1,065	968	966
Cell and molecular biology	2,626	2,773	2,708	2,628	2,816	2,860	2,876	2,986
Ecology	1,325	1,363	1,360	1,466	1,507	1,634	1,597	1,593
Entomology and parasitology	778	757	733	764	794	800	816	713
Genetics	1,063	1,022	977	1,029	1,084	1,107	1,132	1,164
Microbiology, immunology, and virology	2,849	2,791	2,799	2,658	2,814	2,832	2,865	2,857
Nutrition	2,647	2,667	2,566	2,445	2,546	2,575	2,569	2,604
Pathology	961	926	906	962	937	834	863	879
Pharmacology	1,568	1,589	1,731	1,779	1,795	1,809	1,567	1,514
Physiology	1,220	1,119	1,064	1,035	1,086	1,210	1,218	1,264
Zoology	1,216	1,240	1,147	1,088	1,006	985	932	922
Other	2,224	2,437	2,457	2,750	3,188	3,502	3,615	4,159
Computer sciences	13,948	14,377	14,468	15,057	15,962	17,260	16,954	16,595
Earth, atmospheric, and ocean sciences	10,098	10,007	9,812	9,573	9,799	9,963	10,342	10,120
Atmospheric	601	552	557	547	623	713	663	697
Earth	4,776	4,796	4,720	4,603	4,639	4,691	5,111	5,010
Ocean	1,732	1,815	1,872	1,769	1,845	1,871	1,933	1,896
Other	2,989	2,844	2,663	2,654	2,692	2,688	2,635	2,517
Mathematics and statistics	8,097	7,659	6,955	7,386	7,923	8,414	8,859	8,915
Mathematics/applied mathematics	6,899	6,560	5,905	6,313	6,758	7,130	7,601	7,661
Statistics	1,198	1,099	1,050	1,073	1,165	1,284	1,258	1,254
Physical sciences	15,218	15,037	14,343	14,248	14,620	15,107	15,725	16,327
Astronomy	507	511	523	527	570	610	631	677
Chemistry	9,484	9,394	9,028	8,977	8,926	8,955	9,170	9,463
Physics	4,967	4,840	4,514	4,485	4,789	5,209	5,600	5,765
Other	260	292	278	259	335	333	324	422
Psychology	37,622	36,267	33,801	33,578	33,473	33,587	33,655	34,479
Clinical	9,353	9,212	8,662	8,361	8,185	8,472	8,636	8,618
General	12,302	11,548	10,582	10,639	10,200	10,115	10,154	10,707
Nonclinical	15,967	15,507	14,557	14,578	15,088	15,000	14,865	15,154
Social sciences	49,170	48,638	45,700	46,386	47,754	50,301	51,276	51,568
Agricultural economics	860	881	866	888	914	998	965	912
Anthropology (cultural and social)	5,549	5,440	5,311	5,190	5,153	5,316	5,258	5,077
Economics	3,828	3,595	3,448	3,504	3,567	3,780	3,854	3,713
Geography	3,211	3,131	2,906	3,048	3,068	3,255	3,314	3,255
History and philosophy of science	380	424	386	414	426	514	700	679
Linguistics	1,404	1,375	1,237	1,293	1,335	1,418	1,349	1,540
Political science and public administration	18,526	18,317	17,401	17,635	18,785	19,525	20,566	21,115

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	5,455	5,304	4,982	5,095	5,081	5,132	5,030	5,032
Other	9,957	10,171	9,163	9,319	9,425	10,363	10,240	10,245
Engineering	44,098	42,063	39,083	38,459	40,559	43,469	43,235	42,836
Aerospace	1,391	1,437	1,451	1,434	1,512	1,747	1,791	1,844
Agricultural	434	454	429	402	427	464	463	441
Biomedical	1,592	1,633	1,602	1,668	1,894	2,163	2,314	2,424
Chemical	3,124	2,805	2,627	2,417	2,565	2,554	2,666	2,561
Civil	8,665	8,088	7,759	7,492	7,707	8,333	8,270	8,139
Electrical	10,729	9,897	8,982	8,876	9,121	9,709	9,444	9,144
Engineering science/physics	843	787	673	717	893	928	865	793
Industrial/manufacturing	5,764	5,761	5,329	5,255	5,668	5,680	5,484	5,632
Mechanical	6,657	6,491	6,005	5,932	6,254	6,883	6,998	6,898
Metallurgical and materials	2,079	1,935	1,751	1,839	1,882	1,909	1,815	1,859
Mining	151	162	133	115	136	138	157	121
Nuclear	449	424	382	364	383	439	492	534
Petroleum	101	124	110	112	121	125	123	114
Other	2,119	2,065	1,850	1,836	1,996	2,397	2,353	2,332
Asian/Pacific Islander	26,726	27,570	25,058	26,584	29,332	31,921	30,881	30,852
Science	18,714	19,409	17,784	18,577	19,948	21,151	21,097	21,185
Agricultural sciences	315	310	250	262	286	316	329	300
Biological sciences	4,439	4,476	4,246	4,710	4,835	5,158	5,300	5,461
Anatomy	64	71	74	63	92	91	100	92
Biochemistry	527	541	423	477	412	466	444	458
Biology	817	793	721	725	731	819	905	877
Biometry and epidemiology	357	387	424	444	497	488	554	581
Biophysics	90	100	101	129	119	126	113	131
Botany	82	73	73	94	119	108	94	76
Cell and molecular biology	467	496	508	527	584	601	563	668
Ecology	50	45	42	47	43	55	51	53
Entomology and parasitology	37	19	24	46	27	29	34	28
Genetics	128	161	109	147	168	193	185	182
Microbiology, immunology, and virology	444	412	417	479	467	492	487	487
Nutrition	269	255	224	254	246	299	304	338
Pathology	166	180	155	181	188	183	181	159
Pharmacology	299	288	289	365	374	341	305	307
Physiology	265	276	268	288	309	331	383	372
Zoology	48	33	27	32	29	31	40	35
Other	329	346	367	412	430	505	557	617
Computer sciences	5,219	6,144	5,332	5,427	5,953	5,767	5,118	4,671
Earth, atmospheric, and ocean sciences	424	400	351	341	355	363	436	415
Atmospheric	55	41	41	26	31	54	59	58
Earth	153	144	132	139	149	126	149	136
Ocean	62	67	64	51	64	48	69	65
Other	154	148	114	125	111	135	159	156
Mathematics and statistics	1,174	1,002	948	985	1,184	1,364	1,335	1,419
Mathematics/applied mathematics	939	799	742	826	958	1,124	1,032	1,062
Statistics	235	203	206	159	226	240	303	357
Physical sciences	1,760	1,682	1,524	1,458	1,424	1,619	1,735	1,706
Astronomy	32	31	33	36	44	53	38	46
Chemistry	1,179	1,133	1,079	983	950	1,103	1,170	1,135
Physics	528	490	393	422	405	431	502	503
Other	21	28	19	17	25	32	25	22
Psychology	2,019	2,038	2,063	2,176	2,186	2,376	2,447	2,569
Clinical	553	579	569	578	554	610	671	672
General	703	675	712	739	674	793	813	869
Nonclinical	763	784	782	859	958	973	963	1,028

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	3,364	3,357	3,070	3,218	3,725	4,188	4,397	4,644
Agricultural economics	54	53	30	29	39	39	45	43
Anthropology (cultural and social)	241	256	260	253	252	283	294	305
Economics	611	597	476	495	584	655	618	593
Geography	87	101	85	99	114	140	144	153
History and philosophy of science	22	20	20	21	28	29	48	36
Linguistics	187	148	106	154	183	215	176	247
Political science and public administration	1,180	1,163	1,206	1,225	1,489	1,622	1,803	1,975
Sociology	405	398	352	360	375	443	394	401
Other	577	621	535	582	661	762	875	891
Engineering	8,012	8,161	7,274	8,007	9,384	10,770	9,784	9,667
Aerospace	140	153	206	138	186	207	212	251
Agricultural	44	41	38	45	40	36	47	37
Biomedical	267	308	361	426	495	643	742	802
Chemical	469	486	501	494	566	557	468	508
Civil	1,104	931	744	771	855	1,024	997	1,006
Electrical	3,443	3,491	3,119	3,454	4,079	4,606	3,823	3,788
Engineering science/physics	187	170	103	123	161	152	163	143
Industrial/manufacturing	643	784	628	686	878	1,023	949	1,046
Mechanical	973	1,008	804	945	912	1,035	1,015	987
Metallurgical and materials	272	240	246	244	298	316	346	315
Mining	57	50	11	12	21	5	6	6
Nuclear	36	22	24	27	31	30	42	47
Petroleum	7	11	38	39	44	12	24	21
Other	370	466	451	603	818	1,124	950	710
Black	19,651	20,273	20,834	21,459	22,672	24,174	24,684	25,346
Science	16,830	17,308	17,857	18,544	19,598	20,962	21,285	21,876
Agricultural sciences	344	310	292	327	375	460	394	417
Biological sciences	2,141	2,218	2,241	2,351	2,479	2,757	2,893	2,980
Anatomy	30	31	31	20	37	37	50	48
Biochemistry	143	140	144	129	123	159	156	169
Biology	741	744	745	755	690	796	783	791
Biometry and epidemiology	174	188	164	176	201	229	263	282
Biophysics	18	17	17	17	18	17	23	24
Botany	28	22	16	24	29	26	18	17
Cell and molecular biology	126	114	135	143	160	168	186	176
Ecology	17	22	24	26	24	43	27	28
Entomology and parasitology	11	17	14	15	17	15	11	14
Genetics	51	55	57	56	60	75	68	70
Microbiology, immunology, and virology	172	186	191	178	218	245	244	255
Nutrition	213	218	208	231	252	246	294	270
Pathology	44	49	44	51	52	56	59	67
Pharmacology	136	151	147	169	173	185	193	184
Physiology	95	78	102	98	94	102	105	97
Zoology	14	16	13	10	16	11	11	12
Other	128	170	189	253	315	347	402	476
Computer sciences	1,355	1,485	1,512	1,709	1,898	1,951	1,802	1,761
Earth, atmospheric, and ocean sciences	202	213	220	227	266	270	261	262
Atmospheric	8	7	18	19	25	32	36	30
Earth	59	62	56	57	64	75	84	82
Ocean	25	28	28	31	36	35	30	37
Other	110	116	118	120	141	128	111	113
Mathematics and statistics	613	594	572	590	626	655	696	721
Mathematics/applied mathematics	561	543	509	525	546	561	583	617
Statistics	52	51	63	65	80	94	113	104
Physical sciences	913	903	918	875	893	939	995	1,008
Astronomy	9	9	9	12	10	9	10	10
Chemistry	635	633	650	631	636	663	713	694

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	242	234	235	211	220	236	248	272
Other	27	27	24	21	27	31	24	32
Psychology	3,813	3,749	4,214	4,347	4,491	4,692	5,001	5,251
Clinical	725	710	756	740	786	853	894	874
General	1,507	1,405	1,463	1,489	1,532	1,573	1,828	1,682
Nonclinical	1,581	1,634	1,995	2,118	2,173	2,266	2,279	2,695
Social sciences	7,449	7,836	7,888	8,118	8,570	9,238	9,243	9,476
Agricultural economics	70	84	80	76	83	78	52	65
Anthropology (cultural and social)	266	291	270	274	248	276	272	277
Economics	317	291	317	314	322	363	382	319
Geography	108	92	86	114	112	141	150	160
History and philosophy of science	12	14	14	16	24	25	30	42
Linguistics	46	49	44	47	44	49	47	64
Political science and public administration	3,795	4,097	4,073	4,264	4,632	4,849	4,968	5,000
Sociology	1,114	1,061	984	1,001	1,032	1,080	1,032	1,086
Other	1,721	1,857	2,020	2,012	2,073	2,377	2,310	2,463
Engineering	2,821	2,965	2,977	2,915	3,074	3,212	3,399	3,470
Aerospace	34	52	57	45	51	59	68	73
Agricultural	32	27	26	30	27	30	23	25
Biomedical	81	100	111	118	141	156	191	192
Chemical	185	147	168	167	160	173	169	146
Civil	410	450	448	431	453	428	453	456
Electrical	874	886	830	812	846	812	850	843
Engineering science/physics	39	35	34	33	36	42	38	36
Industrial/manufacturing	465	541	557	591	616	685	714	764
Mechanical	412	375	396	354	358	382	369	411
Metallurgical and materials	75	92	94	107	112	110	105	102
Mining	1	1	5	1	1	2	5	3
Nuclear	13	15	17	13	11	12	20	21
Petroleum	5	5	7	4	6	11	21	31
Other	195	239	227	209	256	310	373	367
Hispanic	15,487	16,520	17,203	17,974	19,634	21,244	22,277	23,481
Science	12,587	13,596	14,185	14,791	16,173	17,265	18,113	19,391
Agricultural sciences	391	422	440	425	406	490	524	506
Biological sciences	2,053	2,185	2,183	2,338	2,585	2,830	2,998	3,146
Anatomy	15	26	24	21	38	42	38	41
Biochemistry	141	152	144	171	184	229	212	243
Biology	691	676	708	700	786	807	832	876
Biometry and epidemiology	159	164	167	149	170	196	195	193
Biophysics	14	17	14	20	20	28	30	37
Botany	54	47	36	42	47	38	63	49
Cell and molecular biology	122	153	157	181	213	225	242	280
Ecology	43	41	51	58	59	54	65	71
Entomology and parasitology	26	27	31	39	35	41	38	47
Genetics	53	59	57	68	67	61	62	63
Microbiology, immunology, and virology	187	201	196	220	243	272	295	307
Nutrition	172	186	152	162	167	201	245	204
Pathology	42	56	54	67	62	63	61	58
Pharmacology	88	92	112	116	127	134	143	145
Physiology	70	84	65	60	66	81	94	104
Zoology	36	31	28	29	28	32	28	36
Other	140	173	187	235	273	326	355	392
Computer sciences	754	865	863	894	1,004	1,101	1,143	1,202
Earth, atmospheric, and ocean sciences	370	400	355	397	413	484	537	507
Atmospheric	13	7	12	15	16	21	27	36
Earth	137	154	136	155	163	187	217	206
Ocean	108	132	113	137	131	158	161	150
Other	112	107	94	90	103	118	132	115

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	454	447	460	482	542	604	625	633
Mathematics/applied mathematics	404	399	413	442	494	538	551	565
Statistics	50	48	47	40	48	66	74	68
Physical sciences	832	895	844	896	981	1,094	1,232	1,240
Astronomy	12	13	17	17	17	25	23	27
Chemistry	562	618	602	629	668	750	837	821
Physics	226	229	202	239	274	297	343	358
Other	32	35	23	11	22	22	29	34
Psychology	3,228	3,567	4,145	4,309	4,655	4,680	4,800	5,119
Clinical	1,119	1,182	1,403	1,492	1,588	1,624	1,737	1,761
General	911	931	969	1,006	926	987	1,035	1,186
Nonclinical	1,198	1,454	1,773	1,811	2,141	2,069	2,028	2,172
Social sciences	4,505	4,815	4,895	5,050	5,587	5,982	6,254	7,038
Agricultural economics	42	36	39	40	30	42	50	54
Anthropology (cultural and social)	344	327	368	383	409	436	453	470
Economics	276	247	238	306	332	369	359	336
Geography	98	111	103	107	123	151	143	153
History and philosophy of science	12	22	17	18	55	38	56	60
Linguistics	150	135	142	126	140	136	148	163
Political science and public administration	1,989	2,166	2,303	2,223	2,587	2,749	3,012	3,370
Sociology	602	641	607	608	655	664	636	664
Other	992	1,130	1,078	1,239	1,256	1,397	1,397	1,768
Engineering	2,900	2,924	3,018	3,183	3,461	3,979	4,164	4,090
Aerospace	76	80	80	71	92	119	118	116
Agricultural	15	17	23	28	22	14	8	13
Biomedical	80	85	91	101	114	155	180	192
Chemical	179	182	182	180	206	249	249	240
Civil	723	701	776	747	778	846	898	896
Electrical	812	769	717	825	941	1,094	1,097	1,090
Engineering science/physics	42	44	36	40	47	49	45	43
Industrial/manufacturing	364	426	439	469	477	562	629	579
Mechanical	389	388	366	407	450	537	566	575
Metallurgical and materials	84	75	84	80	79	98	99	106
Mining	4	2	2	3	3	3	10	9
Nuclear	22	28	30	34	26	31	28	38
Petroleum	6	5	59	63	57	13	15	17
Other	104	122	133	135	169	209	222	176
American Indian/Alaska Native	1,607	1,553	1,602	1,683	1,734	1,879	1,863	2,124
Science	1,371	1,311	1,394	1,456	1,490	1,575	1,585	1,695
Agricultural sciences	71	69	56	58	76	77	82	76
Biological sciences	191	186	189	205	210	236	249	278
Anatomy	3	3	4	3	2	4	2	2
Biochemistry	13	6	8	15	8	11	10	15
Biology	51	59	58	52	50	56	54	68
Biometry and epidemiology	7	7	11	11	14	16	15	15
Biophysics	1	1	1	1	2	1	7	3
Botany	3	4	3	9	10	10	10	8
Cell and molecular biology	11	9	13	11	12	14	18	23
Ecology	5	5	5	8	6	10	12	11
Entomology and parasitology	3	1	1	2	5	4	6	9
Genetics	4	4	6	7	7	12	13	10
Microbiology, immunology, and virology	18	15	21	13	24	14	18	16
Nutrition	16	15	13	15	14	13	9	15
Pathology	10	7	6	11	3	3	5	8
Pharmacology	6	14	8	10	15	19	21	20
Physiology	10	8	3	7	8	11	13	12
Zoology	9	7	7	8	6	8	7	10
Other	21	21	21	22	24	30	29	33

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	92	74	80	87	83	104	92	100
Earth, atmospheric, and ocean sciences	84	63	61	70	81	63	67	61
Atmospheric	2	2	3	4	4	5	4	3
Earth	36	26	27	32	36	26	33	29
Ocean	16	12	10	12	11	8	11	11
Other	30	23	21	22	30	24	19	18
Mathematics and statistics	34	30	25	38	24	25	39	38
Mathematics/applied mathematics	30	26	20	34	20	24	39	34
Statistics	4	4	5	4	4	1	0	4
Physical sciences	64	69	75	81	83	79	78	82
Astronomy	2	2	1	0	2	3	3	5
Chemistry	46	53	61	62	58	51	54	53
Physics	14	13	12	19	22	24	18	20
Other	2	1	1	0	1	1	3	4
Psychology	311	300	360	334	320	324	324	334
Clinical	112	93	104	92	101	107	92	88
General	93	96	124	104	87	93	104	99
Nonclinical	106	111	132	138	132	124	128	147
Social sciences	524	520	548	583	613	667	654	726
Agricultural economics	5	7	7	4	4	7	26	23
Anthropology (cultural and social)	119	105	109	102	89	99	106	123
Economics	16	13	17	21	28	31	30	19
Geography	13	14	20	28	26	22	24	34
History and philosophy of science	1	2	2	2	2	5	7	5
Linguistics	9	15	13	13	12	16	17	17
Political science and public administration	172	177	175	192	217	241	219	251
Sociology	68	66	68	66	68	65	56	62
Other	121	121	137	155	167	181	169	192
Engineering	236	242	208	227	244	304	278	429
Aerospace	7	8	8	8	11	15	16	13
Agricultural	4	1	3	3	2	2	1	3
Biomedical	7	8	5	5	6	7	15	13
Chemical	21	16	20	13	21	19	27	24
Civil	43	56	39	43	58	65	51	52
Electrical	33	47	37	45	39	63	54	54
Engineering science/physics	7	6	8	9	9	11	11	9
Industrial/manufacturing	34	39	41	43	34	52	48	51
Mechanical	25	33	27	32	32	42	24	28
Metallurgical and materials	33	10	5	8	11	8	6	5
Mining	0	0	1	0	3	4	1	0
Nuclear	2	2	1	0	2	1	3	3
Petroleum	2	0	1	1	1	0	0	0
Other	18	16	12	17	15	15	21	174
Other race/ethnicity	18,741	18,588	20,445	20,984	22,719	25,431	27,880	31,610
Science	14,559	14,755	16,294	16,804	18,079	19,772	22,284	25,464
Agricultural sciences	300	280	422	503	456	459	485	513
Biological sciences	2,212	2,386	2,407	2,408	2,585	3,075	3,258	3,547
Anatomy	34	18	15	12	31	28	37	44
Biochemistry	129	142	126	167	223	275	220	258
Biology	775	796	674	618	652	802	952	942
Biometry and epidemiology	227	185	177	214	126	159	198	305
Biophysics	71	38	40	22	35	39	46	51
Botany	59	51	59	56	63	70	76	79
Cell and molecular biology	130	194	268	288	328	389	320	356
Ecology	58	54	94	89	110	162	161	160
Entomology and parasitology	22	22	21	29	30	31	33	33
Genetics	32	99	129	101	99	110	117	101
Microbiology, immunology, and virology	143	267	255	246	245	258	238	259

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	98	103	134	162	152	161	178	243
Pathology	69	67	65	72	72	71	55	65
Pharmacology	57	54	51	53	70	96	89	91
Physiology	53	64	67	48	59	72	77	84
Zoology	73	37	49	43	45	54	36	38
Other	182	195	183	188	245	298	425	438
Computer sciences	2,237	2,378	2,833	2,968	3,303	3,237	3,177	3,226
Earth, atmospheric, and ocean sciences	581	480	450	451	558	702	701	701
Atmospheric	31	30	28	28	31	44	30	39
Earth	282	231	223	203	282	351	312	322
Ocean	86	54	55	71	65	86	100	111
Other	182	165	144	149	180	221	259	229
Mathematics and statistics	692	598	633	686	840	995	1,006	1,088
Mathematics/applied mathematics	614	534	557	582	712	887	861	917
Statistics	78	64	76	104	128	108	145	171
Physical sciences	1,050	973	1,026	1,277	1,250	1,375	1,441	1,417
Astronomy	45	27	34	41	44	47	44	63
Chemistry	551	500	463	515	554	688	741	739
Physics	402	334	401	615	549	547	569	588
Other	52	112	128	106	103	93	87	27
Psychology	3,378	3,567	3,620	3,202	3,183	3,440	4,818	6,632
Clinical	508	626	604	797	800	833	1,307	1,781
General	887	863	962	926	758	911	967	1,092
Nonclinical	1,983	2,078	2,054	1,479	1,625	1,696	2,544	3,759
Social sciences	4,109	4,093	4,903	5,309	5,904	6,489	7,398	8,340
Agricultural economics	60	28	43	72	71	57	64	65
Anthropology (cultural and social)	319	391	479	520	483	557	583	609
Economics	413	286	445	484	556	501	493	448
Geography	250	203	208	183	193	228	244	236
History and philosophy of science	14	16	24	30	60	57	84	64
Linguistics	116	115	172	149	179	231	199	226
Political science and public administration	1,614	1,533	1,814	2,043	2,570	3,017	3,750	4,523
Sociology	305	320	404	375	414	398	458	493
Other	1,018	1,201	1,314	1,453	1,378	1,443	1,523	1,676
Engineering	4,182	3,833	4,151	4,180	4,640	5,659	5,596	6,146
Aerospace	72	87	92	109	147	214	196	231
Agricultural	27	22	27	22	11	22	14	19
Biomedical	113	84	78	152	172	273	233	305
Chemical	230	233	228	147	183	201	189	211
Civil	610	575	540	588	702	762	767	868
Electrical	1,568	1,427	1,630	1,522	1,553	1,834	1,610	1,787
Engineering science/physics	31	51	101	132	93	48	65	72
Industrial/manufacturing	599	522	580	563	645	843	959	993
Mechanical	590	465	499	513	598	764	794	845
Metallurgical and materials	127	86	85	107	100	105	130	131
Mining	15	4	3	5	1	15	10	22
Nuclear	5	7	3	7	11	19	31	31
Petroleum	2	3	50	48	69	13	11	9
Other	193	267	235	265	355	546	587	622
Temporary residents	101,977	109,928	122,825	134,531	145,612	147,336	143,571	139,232
Sciences	64,188	68,425	75,424	82,009	87,306	87,352	86,461	85,397
Agricultural sciences	2,654	2,538	2,411	2,513	2,613	2,596	2,695	2,649
Biological sciences	11,336	11,189	11,761	12,434	13,826	14,836	15,793	16,402
Anatomy	155	153	177	176	199	203	179	188
Biochemistry	1,453	1,455	1,589	1,585	1,731	1,897	1,997	2,089
Biology	2,080	1,992	2,054	2,193	2,445	2,569	2,780	2,994
Biometry and epidemiology	679	751	821	903	1,099	1,196	1,212	1,202
Biophysics	166	154	204	263	299	319	375	375



TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	606	588	584	574	618	584	602	665
Cell and molecular biology	897	898	1,031	1,133	1,262	1,432	1,625	1,688
Ecology	172	174	186	194	218	272	272	249
Entomology and parasitology	291	302	280	275	283	286	303	282
Genetics	396	383	377	433	424	515	552	565
Microbiology, immunology, and virology	960	943	935	1,004	1,197	1,143	1,228	1,220
Nutrition	1,071	1,064	1,116	1,160	1,162	1,200	1,172	1,143
Pathology	288	295	301	293	299	331	316	340
Pharmacology	576	569	625	648	680	773	804	853
Physiology	438	454	446	431	454	521	519	466
Zoology	190	159	174	201	219	180	182	211
Other	918	855	861	968	1,237	1,415	1,675	1,872
Computer sciences	14,422	17,155	22,262	26,054	27,066	24,276	21,730	20,491
Earth, atmospheric, and ocean sciences	2,499	2,520	2,692	2,782	2,768	2,775	2,787	2,761
Atmospheric	255	274	304	285	306	281	267	283
Earth	1,244	1,224	1,302	1,355	1,379	1,433	1,452	1,427
Ocean	533	516	526	514	466	489	497	490
Other	467	506	560	628	617	572	571	561
Mathematics and statistics	5,421	5,927	6,057	6,484	7,024	7,408	7,371	7,396
Mathematics/applied mathematics	4,380	4,660	4,677	4,847	5,214	5,305	5,297	5,250
Statistics	1,041	1,267	1,380	1,637	1,810	2,103	2,074	2,146
Physical sciences	10,738	11,132	11,655	12,203	13,090	14,085	14,555	14,616
Astronomy	213	239	271	283	303	333	370	363
Chemistry	6,025	6,085	6,222	6,569	7,253	7,839	8,091	8,217
Physics	4,430	4,729	5,084	5,257	5,442	5,811	6,018	5,966
Other	70	79	78	94	92	102	76	70
Psychology	2,186	2,239	2,263	2,521	2,857	3,112	3,173	3,028
Clinical	363	396	390	428	595	619	434	489
General	695	720	812	934	982	1,108	1,375	1,151
Nonclinical	1,128	1,123	1,061	1,159	1,280	1,385	1,364	1,388
Social sciences	14,932	15,725	16,323	17,018	18,062	18,264	18,357	18,054
Agricultural economics	904	925	1,014	1,052	1,046	1,097	993	956
Anthropology (cultural and social)	739	823	829	769	847	822	860	845
Economics	5,240	5,533	5,807	6,284	6,620	6,617	6,582	6,377
Geography	559	598	628	725	747	784	790	781
History and philosophy of science	67	59	69	70	68	69	69	79
Linguistics	1,023	962	960	962	982	963	1,005	930
Political science and public administration	3,552	3,919	4,159	4,223	4,654	4,877	4,952	4,872
Sociology	1,109	1,176	1,255	1,307	1,321	1,345	1,268	1,299
Other	1,739	1,730	1,602	1,626	1,777	1,690	1,838	1,915
Engineering	37,789	41,503	47,401	52,522	58,306	59,984	57,110	53,835
Aerospace	1,417	1,532	1,513	1,646	1,686	1,687	1,688	1,642
Agricultural	419	424	397	417	423	490	485	521
Biomedical	715	851	949	1,129	1,516	1,904	2,132	2,139
Chemical	2,885	3,014	3,330	3,495	3,713	3,763	3,684	3,483
Civil	4,962	5,425	6,145	6,593	7,160	7,432	7,125	6,633
Electrical	13,925	15,305	18,296	20,566	23,369	23,645	22,117	20,738
Engineering science/physics	552	534	677	744	882	1,010	1,011	855
Industrial/manufacturing	3,352	3,730	4,545	5,333	5,715	5,468	5,069	4,549
Mechanical	5,650	6,196	7,138	7,669	8,535	8,750	8,086	7,643
Metallurgical and materials	2,010	2,043	2,112	2,336	2,510	2,585	2,558	2,642
Mining	76	109	132	104	102	111	119	118
Nuclear	294	332	335	356	331	353	355	339
Petroleum	448	494	362	389	468	675	651	616
Other	1,084	1,514	1,470	1,745	1,896	2,111	2,030	1,917

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All female S&E graduate students	163,427	168,396	170,479	177,430	188,628	198,434	202,082	206,663
Science	144,439	148,509	149,733	155,173	163,661	170,847	174,810	179,785
Agricultural sciences	4,852	5,049	5,088	5,343	5,653	6,026	6,258	6,202
Biological sciences	28,953	29,621	29,807	31,049	33,411	35,883	37,278	38,503
Anatomy	342	345	367	352	451	466	467	466
Biochemistry	2,229	2,266	2,231	2,223	2,422	2,595	2,643	2,818
Biology	7,213	7,143	7,006	7,189	7,514	8,158	8,617	8,631
Biometry/epidemiology	2,153	2,323	2,241	2,427	2,552	2,771	2,867	3,009
Biophysics	209	213	231	262	306	339	434	408
Botany	1,011	982	986	974	1,019	996	974	985
Cell/molecular biology	2,141	2,360	2,494	2,521	2,791	3,006	3,095	3,290
Ecology	830	881	916	979	1,039	1,208	1,192	1,210
Entomology/parasitology	414	406	442	480	492	537	565	520
Genetics	983	1,016	973	1,046	1,112	1,216	1,283	1,309
Microbiology, immunology, and virology	2,371	2,450	2,432	2,495	2,808	2,933	3,053	3,082
Nutrition	3,413	3,431	3,379	3,436	3,512	3,658	3,721	3,791
Pathology	804	804	829	895	906	910	911	947
Pharmacology	1,325	1,343	1,516	1,658	1,773	1,818	1,693	1,713
Physiology	886	898	882	911	994	1,144	1,229	1,255
Zoology	694	670	642	667	638	645	640	636
Other	1,935	2,090	2,240	2,534	3,082	3,483	3,894	4,433
Computer sciences	10,802	12,545	14,080	15,302	16,025	14,816	13,277	12,061
Earth, atmospheric, and ocean sciences	5,568	5,725	5,753	5,892	6,247	6,538	6,932	6,888
Atmospheric	234	242	268	298	333	374	363	388
Earth	2,315	2,400	2,455	2,483	2,613	2,764	3,059	3,043
Ocean	1,162	1,222	1,267	1,255	1,309	1,392	1,509	1,481
Other	1,857	1,861	1,763	1,856	1,992	2,008	2,001	1,976
Mathematics and statistics	5,988	6,043	5,780	6,270	6,886	7,289	7,497	7,437
Mathematics/applied mathematics	4,895	4,862	4,508	4,818	5,239	5,406	5,613	5,560
Statistics	1,093	1,181	1,272	1,452	1,647	1,883	1,884	1,877
Physical sciences	8,753	8,915	9,115	9,336	10,066	10,778	11,300	11,726
Astronomy	230	225	267	265	302	345	355	394
Chemistry	6,564	6,617	6,756	6,855	7,325	7,839	8,232	8,423
Physics	1,780	1,876	1,910	2,042	2,201	2,366	2,501	2,669
Other	179	197	182	174	238	228	212	240
Psychology	37,462	37,271	36,872	37,318	37,728	38,816	40,226	43,419
Clinical	9,173	9,285	9,283	9,399	9,467	9,955	10,623	11,012
General	11,847	11,387	11,027	11,283	10,676	10,998	11,107	12,061
Nonclinical	16,442	16,599	16,562	16,636	17,585	17,863	18,496	20,346
Social sciences	42,061	43,340	43,238	44,663	47,645	50,701	52,042	53,549
Agricultural economics	680	715	789	835	844	900	854	873
Anthropology (cultural and social)	4,556	4,644	4,685	4,562	4,617	4,870	4,973	4,924
Economics	3,464	3,499	3,765	3,995	4,268	4,508	4,485	4,254
Geography	1,663	1,703	1,627	1,801	1,843	2,028	2,008	2,013
History and philosophy of science	193	212	219	244	301	312	414	440
Linguistics	1,953	1,833	1,744	1,793	1,891	2,005	1,927	2,055
Political science and public administration	14,961	15,573	15,927	16,501	18,619	19,842	20,978	22,086
Sociology	5,696	5,739	5,580	5,732	5,768	5,901	5,794	5,800
Other	8,895	9,422	8,902	9,200	9,494	10,335	10,609	11,104
Engineering	18,988	19,887	20,746	22,257	24,967	27,587	27,272	26,878
Aerospace	382	423	469	485	516	603	600	607
Agricultural	260	269	282	300	288	315	311	323
Biomedical	853	986	1,056	1,238	1,513	1,944	2,183	2,297
Chemical	1,727	1,733	1,875	1,829	1,995	2,100	2,106	2,079
Civil	4,102	4,157	4,277	4,503	4,905	5,398	5,441	5,395
Electrical	4,872	5,133	5,536	6,212	7,270	7,794	7,201	6,788
Engineering science/physics	331	319	342	363	430	465	465	419
Industrial/manufacturing	2,452	2,659	2,713	2,808	3,076	3,266	3,230	3,287
Mechanical	1,762	1,788	1,832	1,944	2,083	2,354	2,456	2,410

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical/materials	1,130	1,084	1,041	1,173	1,251	1,331	1,321	1,348
Mining	55	55	46	36	37	42	42	39
Nuclear	134	144	156	157	148	182	196	211
Petroleum	55	82	87	91	107	129	134	121
Other	873	1,055	1,034	1,118	1,348	1,664	1,586	1,554
U.S. citizens and permanent residents	133,389	135,431	133,688	136,696	144,260	152,431	156,068	161,178
Science	121,008	123,050	121,633	124,269	130,455	136,985	140,810	145,875
Agricultural sciences	4,006	4,194	4,241	4,406	4,641	4,988	5,167	5,115
Biological sciences	23,503	24,180	23,964	24,669	26,258	27,976	28,756	29,621
Anatomy	284	279	294	278	367	365	382	375
Biochemistry	1,596	1,604	1,511	1,463	1,600	1,681	1,692	1,783
Biology	6,192	6,166	5,979	6,060	6,242	6,767	7,075	6,988
Biometry/epidemiology	1,818	1,947	1,808	1,915	1,940	2,073	2,169	2,308
Biophysics	164	170	175	187	221	231	296	272
Botany	732	725	717	701	716	703	666	656
Cell/molecular biology	1,715	1,886	1,931	1,908	2,095	2,214	2,180	2,355
Ecology	758	807	831	895	947	1,072	1,062	1,092
Entomology/parasitology	334	322	357	395	396	432	448	412
Genetics	786	844	792	837	894	942	975	982
Microbiology, immunology, and virology	1,907	1,968	1,963	1,951	2,177	2,299	2,337	2,384
Nutrition	2,707	2,745	2,648	2,672	2,756	2,908	2,963	3,043
Pathology	671	678	698	758	752	728	750	775
Pharmacology	1,043	1,064	1,197	1,308	1,382	1,377	1,247	1,236
Physiology	702	710	693	698	770	880	966	1,008
Zoology	616	602	560	579	540	556	552	538
Other	1,478	1,663	1,810	2,064	2,463	2,748	2,996	3,414
Computer sciences	6,577	7,412	7,406	7,643	8,206	8,051	7,374	6,814
Earth, atmospheric, and ocean sciences	4,805	4,868	4,857	4,911	5,235	5,496	5,857	5,797
Atmospheric	146	137	166	192	216	267	260	274
Earth	2,021	2,069	2,100	2,098	2,181	2,287	2,557	2,529
Ocean	980	1,038	1,065	1,049	1,124	1,196	1,291	1,274
Other	1,658	1,624	1,526	1,572	1,714	1,746	1,749	1,720
Mathematics and statistics	4,205	3,982	3,661	3,927	4,379	4,533	4,808	4,759
Mathematics/applied mathematics	3,563	3,367	3,034	3,299	3,653	3,777	3,994	3,926
Statistics	642	615	627	628	726	756	814	833
Physical sciences	5,833	5,862	5,832	5,859	6,178	6,523	6,782	7,147
Astronomy	181	172	197	191	229	253	258	302
Chemistry	4,441	4,477	4,477	4,453	4,583	4,819	5,014	5,198
Physics	1,062	1,047	999	1,075	1,162	1,249	1,324	1,430
Other	149	166	159	140	204	202	186	217
Psychology	36,074	35,822	35,361	35,574	35,963	36,859	38,302	41,294
Clinical	8,923	9,005	8,977	9,065	9,094	9,565	10,292	10,623
General	11,461	10,952	10,527	10,676	10,113	10,346	10,459	11,328
Nonclinical	15,690	15,865	15,857	15,833	16,756	16,948	17,551	19,343
Social sciences	36,005	36,730	36,311	37,280	39,595	42,559	43,764	45,328
Agricultural economics	390	393	413	423	428	467	477	488
Anthropology (cultural and social)	4,169	4,196	4,220	4,141	4,157	4,414	4,483	4,449
Economics	1,808	1,719	1,815	1,835	1,938	2,075	2,018	1,844
Geography	1,454	1,466	1,383	1,508	1,523	1,691	1,673	1,684
History and philosophy of science	170	194	189	219	274	290	389	414
Linguistics	1,297	1,233	1,130	1,161	1,237	1,378	1,269	1,437
Political science and public administration	13,537	13,932	14,128	14,598	16,382	17,544	18,636	19,781
Sociology	5,098	5,074	4,857	4,947	4,985	5,108	5,044	5,032
Other	8,082	8,523	8,176	8,448	8,671	9,592	9,775	10,199
Engineering	12,381	12,381	12,055	12,427	13,805	15,446	15,258	15,303
Aerospace	224	255	282	275	300	390	377	400
Agricultural	154	164	185	196	183	191	183	177
Biomedical	663	730	766	870	1,017	1,306	1,435	1,559

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	1,059	1,020	1,054	985	1,086	1,094	1,128	1,114
Civil	3,046	2,955	2,909	2,957	3,209	3,552	3,562	3,598
Electrical	2,518	2,389	2,246	2,380	2,668	2,962	2,588	2,557
Engineering science/physics	220	215	195	209	252	235	254	235
Industrial/manufacturing	1,869	2,003	1,896	1,890	2,114	2,261	2,238	2,230
Mechanical	1,153	1,141	1,051	1,117	1,164	1,366	1,437	1,408
Metallurgical/materials	677	618	581	622	668	702	690	688
Mining	51	43	32	32	30	30	33	30
Nuclear	88	87	95	88	87	115	123	143
Petroleum	15	17	40	40	40	24	33	28
Other	644	744	723	766	987	1,218	1,177	1,136
White	94,933	94,940	91,787	92,768	96,538	100,572	102,024	102,827
Science	86,767	87,076	84,161	85,167	88,479	91,680	93,166	94,146
Agricultural sciences	3,334	3,527	3,526	3,600	3,816	4,061	4,191	4,146
Biological sciences	17,454	17,808	17,677	17,846	18,968	19,749	20,027	20,420
Anatomy	221	209	229	222	259	265	252	264
Biochemistry	1,144	1,158	1,123	1,017	1,140	1,122	1,173	1,183
Biology	4,486	4,459	4,342	4,389	4,554	4,816	4,975	4,893
Biometry/epidemiology	1,199	1,326	1,179	1,256	1,301	1,370	1,406	1,439
Biophysics	111	117	121	135	161	164	210	182
Botany	605	613	612	582	567	562	506	510
Cell/molecular biology	1,272	1,364	1,353	1,296	1,389	1,433	1,421	1,485
Ecology	673	709	709	763	807	883	881	905
Entomology/parasitology	291	283	310	341	345	371	387	339
Genetics	637	627	593	623	678	695	725	742
Microbiology, immunology, and virology	1,382	1,387	1,390	1,353	1,501	1,550	1,585	1,607
Nutrition	2,100	2,124	2,074	2,009	2,086	2,138	2,112	2,153
Pathology	501	490	526	555	547	513	534	544
Pharmacology	734	737	864	901	940	941	820	818
Physiology	492	484	478	465	506	576	595	632
Zoology	533	539	497	521	486	493	485	472
Other	1,073	1,182	1,277	1,418	1,701	1,857	1,960	2,252
Computer sciences	3,198	3,521	3,629	3,778	3,962	4,039	3,854	3,627
Earth, atmospheric, and ocean sciences	4,065	4,134	4,200	4,211	4,410	4,541	4,822	4,794
Atmospheric	108	111	126	156	175	211	204	216
Earth	1,753	1,810	1,870	1,851	1,878	1,934	2,172	2,170
Ocean	829	885	921	897	954	1,002	1,072	1,063
Other	1,375	1,328	1,283	1,307	1,403	1,394	1,374	1,345
Mathematics and statistics	3,040	2,861	2,601	2,799	3,046	3,061	3,294	3,177
Mathematics/applied mathematics	2,586	2,431	2,177	2,356	2,556	2,545	2,774	2,674
Statistics	454	430	424	443	490	516	520	503
Physical sciences	4,170	4,165	4,167	4,164	4,497	4,592	4,718	5,017
Astronomy	145	146	163	154	182	199	206	237
Chemistry	3,176	3,182	3,173	3,171	3,315	3,336	3,403	3,553
Physics	759	739	741	755	863	921	981	1,058
Other	90	98	90	84	137	136	128	169
Psychology	26,707	26,072	24,442	24,553	24,655	24,900	25,083	25,714
Clinical	6,617	6,577	6,320	6,156	6,084	6,378	6,562	6,547
General	8,514	8,068	7,394	7,474	7,167	7,130	7,173	7,623
Nonclinical	11,576	11,427	10,728	10,923	11,404	11,392	11,348	11,544
Social sciences	24,799	24,988	23,919	24,216	25,125	26,737	27,177	27,251
Agricultural economics	295	309	331	331	325	369	353	350
Anthropology (cultural and social)	3,359	3,310	3,262	3,148	3,191	3,330	3,332	3,231
Economics	1,227	1,150	1,218	1,200	1,231	1,330	1,281	1,182
Geography	1,239	1,242	1,161	1,263	1,262	1,363	1,334	1,339
History and philosophy of science	149	163	158	182	197	218	295	308
Linguistics	934	901	801	830	869	929	892	987
Political science and public administration	8,645	8,763	8,550	8,690	9,479	10,012	10,464	10,784

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	3,509	3,506	3,299	3,395	3,334	3,368	3,342	3,239
Other	5,442	5,644	5,139	5,177	5,237	5,818	5,884	5,831
Engineering	8,166	7,864	7,626	7,601	8,059	8,892	8,858	8,681
Aerospace	175	198	218	210	217	279	256	272
Agricultural	114	125	128	127	129	142	143	136
Biomedical	472	508	532	562	635	792	868	911
Chemical	704	643	663	610	653	635	676	664
Civil	2,206	2,098	2,118	2,111	2,228	2,499	2,498	2,467
Electrical	1,234	1,099	981	1,011	1,028	1,036	968	907
Engineering science/physics	150	137	134	138	170	179	173	152
Industrial/manufacturing	1,272	1,315	1,211	1,162	1,249	1,323	1,261	1,212
Mechanical	791	749	687	728	743	904	924	862
Metallurgical/materials	506	443	426	449	468	482	489	482
Mining	37	33	29	29	25	27	25	22
Nuclear	71	66	69	64	63	87	84	96
Petroleum	9	13	15	10	11	12	14	14
Other	425	437	415	390	440	495	479	484
Asian/Pacific Islander	10,830	11,524	10,654	11,395	12,667	13,859	13,802	13,956
Science	8,996	9,515	8,870	9,324	10,011	10,743	10,832	11,037
Agricultural sciences	155	167	138	147	150	165	193	161
Biological sciences	2,350	2,377	2,253	2,539	2,646	2,894	3,040	3,146
Anatomy	25	29	23	29	51	45	56	41
Biochemistry	244	235	192	211	191	219	212	239
Biology	454	438	384	410	401	477	528	519
Biometry/epidemiology	246	268	290	305	328	323	343	377
Biophysics	18	29	29	35	38	43	50	54
Botany	48	48	51	55	69	66	58	53
Cell/molecular biology	244	274	262	272	305	320	332	381
Ecology	29	27	26	29	30	38	29	34
Entomology/parasitology	17	10	15	19	12	15	17	15
Genetics	66	82	56	73	81	93	90	88
Microbiology, immunology, and virology	234	216	220	244	253	276	277	272
Nutrition	212	199	168	201	196	250	260	283
Pathology	82	86	72	94	98	105	110	99
Pharmacology	149	142	151	197	200	183	169	162
Physiology	97	106	102	133	149	153	192	190
Zoology	22	18	14	15	13	17	25	21
Other	163	170	198	217	231	271	292	318
Computer sciences	1,920	2,318	2,009	1,987	2,143	1,973	1,660	1,430
Earth, atmospheric, and ocean sciences	186	192	172	170	197	200	229	218
Atmospheric	17	8	16	11	15	20	24	17
Earth	57	66	60	55	70	63	79	61
Ocean	26	36	35	30	37	31	42	38
Other	86	82	61	74	75	86	84	102
Mathematics and statistics	470	437	417	433	531	625	600	632
Mathematics/applied mathematics	369	328	307	346	412	493	439	441
Statistics	101	109	110	87	119	132	161	191
Physical sciences	610	636	573	542	531	649	683	704
Astronomy	15	13	14	15	18	17	15	17
Chemistry	485	495	473	432	411	510	536	549
Physics	96	117	76	88	93	109	121	130
Other	14	11	10	7	9	13	11	8
Psychology	1,468	1,502	1,531	1,628	1,633	1,800	1,885	2,004
Clinical	426	453	453	468	451	506	562	559
General	514	503	520	552	489	562	576	628
Nonclinical	528	546	558	608	693	732	747	817

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	1,837	1,886	1,777	1,878	2,180	2,437	2,542	2,742
Agricultural economics	25	18	13	15	20	19	29	27
Anthropology (cultural and social)	167	183	192	186	174	189	205	216
Economics	225	240	212	202	258	293	282	257
Geography	45	54	46	57	59	78	78	77
History and philosophy of science	9	9	9	10	16	17	20	20
Linguistics	133	114	78	106	135	160	128	171
Political science and public administration	632	634	680	704	855	935	1,016	1,170
Sociology	262	254	235	240	255	307	269	274
Other	339	380	312	358	408	439	515	530
Engineering	1,834	2,009	1,784	2,071	2,656	3,116	2,970	2,919
Aerospace	21	21	26	27	31	36	51	62
Agricultural	13	15	19	22	17	16	16	14
Biomedical	86	105	125	163	207	258	311	347
Chemical	148	176	165	160	204	205	183	211
Civil	313	316	238	279	298	366	375	400
Electrical	709	704	662	728	972	1,164	980	938
Engineering science/physics	44	43	19	25	43	36	43	41
Industrial/manufacturing	156	198	164	194	267	285	278	299
Mechanical	138	179	130	168	169	174	197	212
Metallurgical/materials	75	85	73	78	102	99	96	96
Mining	13	10	1	1	2	2	1	2
Nuclear	8	6	5	8	7	9	14	16
Petroleum	4	1	1	4	6	3	7	2
Other	106	150	156	214	331	463	418	279
Black	11,331	11,708	12,536	13,076	13,763	14,718	14,885	15,693
Science	10,452	10,732	11,509	12,095	12,701	13,677	13,756	14,593
Agricultural sciences	176	151	153	201	213	266	241	245
Biological sciences	1,377	1,457	1,481	1,559	1,667	1,899	2,029	2,058
Anatomy	17	19	21	14	24	22	34	29
Biochemistry	76	76	81	76	73	96	97	101
Biology	481	482	502	507	459	543	536	521
Biometry/epidemiology	118	130	118	127	139	166	193	209
Biophysics	8	8	7	7	8	8	10	10
Botany	18	14	9	13	17	14	12	13
Cell/molecular biology	67	65	76	80	92	113	123	115
Ecology	8	11	11	13	15	27	19	20
Entomology/parasitology	6	8	8	6	8	10	9	10
Genetics	34	35	32	33	40	55	53	55
Microbiology, immunology, and virology	111	124	123	121	153	173	161	171
Nutrition	169	176	167	185	200	208	245	218
Pathology	30	35	31	32	33	35	43	53
Pharmacology	85	96	91	110	119	115	126	119
Physiology	58	51	60	56	58	67	69	65
Zoology	10	11	8	5	9	6	7	6
Other	81	116	136	174	220	241	292	343
Computer sciences	591	670	668	766	835	823	707	712
Earth, atmospheric, and ocean sciences	99	101	100	102	131	140	141	152
Atmospheric	3	4	9	7	10	12	14	13
Earth	24	31	24	25	27	35	43	43
Ocean	15	14	14	15	23	26	22	27
Other	57	52	53	55	71	67	62	69
Mathematics and statistics	274	270	273	270	286	282	331	350
Mathematics/applied mathematics	254	248	239	241	250	243	280	300
Statistics	20	22	34	29	36	39	51	50
Physical sciences	432	402	425	413	407	431	454	482
Astronomy	3	3	4	4	4	5	6	5
Chemistry	332	318	342	341	332	349	380	396

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	83	70	67	53	52	57	57	67
Other	14	11	12	15	19	20	11	14
Psychology	2,926	2,844	3,343	3,479	3,545	3,758	3,757	4,298
Clinical	560	545	593	592	633	706	724	716
General	1,137	1,052	1,137	1,166	1,188	1,209	1,184	1,334
Nonclinical	1,229	1,247	1,613	1,721	1,724	1,843	1,849	2,248
Social sciences	4,577	4,837	5,066	5,305	5,617	6,078	6,096	6,296
Agricultural economics	25	35	38	35	41	38	28	38
Anthropology (cultural and social)	184	209	196	216	189	215	216	225
Economics	126	133	155	151	137	154	158	141
Geography	43	44	39	53	57	80	85	83
History and philosophy of science	4	7	6	9	11	9	10	20
Linguistics	32	36	31	32	27	35	31	43
Political science and public administration	2,339	2,530	2,628	2,796	3,042	3,239	3,260	3,323
Sociology	727	688	659	685	709	737	735	775
Other	1,097	1,155	1,314	1,328	1,404	1,571	1,573	1,648
Engineering	879	976	1,027	981	1,062	1,041	1,129	1,100
Aerospace	7	8	8	4	6	9	14	15
Agricultural	12	7	11	18	16	16	14	12
Biomedical	42	49	58	60	74	88	113	103
Chemical	80	79	79	89	81	78	74	60
Civil	133	173	178	158	182	155	162	161
Electrical	194	200	201	192	201	183	194	189
Engineering science/physics	7	7	13	10	7	6	12	10
Industrial/manufacturing	208	232	247	242	264	266	273	282
Mechanical	104	88	104	81	79	86	91	90
Metallurgical/materials	31	43	43	46	51	51	48	49
Mining	0	0	1	0	0	0	0	0
Nuclear	4	8	11	6	6	8	12	13
Petroleum	0	0	0	1	0	1	4	4
Other	57	82	73	74	95	94	118	112
Hispanic	7,645	8,324	8,935	9,460	10,446	11,061	11,675	12,532
Science	6,958	7,622	8,197	8,618	9,485	10,004	10,576	11,435
Agricultural sciences	180	213	217	215	209	239	257	263
Biological sciences	1,129	1,217	1,220	1,329	1,465	1,612	1,746	1,827
Anatomy	4	11	10	8	14	16	21	18
Biochemistry	69	70	70	84	88	110	108	126
Biology	376	358	378	387	437	454	488	505
Biometry/epidemiology	110	117	113	103	99	118	119	114
Biophysics	1	2	2	3	3	6	9	10
Botany	28	25	16	19	24	18	41	28
Cell/molecular biology	60	77	89	97	123	129	129	159
Ecology	20	26	33	40	37	34	39	40
Entomology/parasitology	8	11	13	18	19	25	20	25
Genetics	28	34	33	44	39	37	34	33
Microbiology, immunology, and virology	103	107	107	120	139	155	173	189
Nutrition	145	155	127	134	147	164	191	166
Pathology	23	28	29	36	34	33	28	31
Pharmacology	45	52	62	63	73	79	75	78
Physiology	27	40	26	26	28	36	53	59
Zoology	18	10	12	13	8	10	14	16
Other	64	94	100	134	153	188	204	230
Computer sciences	195	212	246	244	271	286	285	273
Earth, atmospheric, and ocean sciences	168	200	169	201	222	261	302	281
Atmospheric	2	3	4	7	6	8	12	12
Earth	54	70	56	78	81	100	111	105
Ocean	60	70	59	65	71	86	91	82
Other	52	57	50	51	64	67	88	82

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	178	177	150	160	207	223	230	215
Mathematics/applied mathematics	153	158	136	147	187	196	203	196
Statistics	25	19	14	13	20	27	27	19
Physical sciences	307	346	337	357	376	416	489	489
Astronomy	2	3	3	5	8	11	13	15
Chemistry	247	289	287	292	307	339	396	393
Physics	43	41	40	58	53	60	71	69
Other	15	13	7	2	8	6	9	12
Psychology	2,347	2,610	3,106	3,261	3,527	3,549	3,668	3,941
Clinical	858	922	1,080	1,159	1,228	1,245	1,370	1,382
General	635	653	705	726	659	719	751	876
Nonclinical	854	1,035	1,321	1,376	1,640	1,585	1,547	1,683
Social sciences	2,454	2,647	2,752	2,851	3,208	3,418	3,599	4,146
Agricultural economics	21	17	16	18	13	18	23	26
Anthropology (cultural and social)	195	198	220	224	243	260	293	299
Economics	98	88	78	102	118	134	123	111
Geography	34	47	46	48	52	64	65	67
History and philosophy of science	4	8	6	6	18	16	26	31
Linguistics	117	100	103	93	95	93	85	108
Political science and public administration	1,087	1,187	1,294	1,291	1,530	1,582	1,761	1,991
Sociology	359	379	373	366	394	407	375	390
Other	539	623	616	703	745	844	848	1,123
Engineering	687	702	738	842	961	1,057	1,099	1,097
Aerospace	9	10	13	17	23	26	22	16
Agricultural	5	5	12	17	14	8	4	10
Biomedical	27	35	28	31	36	57	64	75
Chemical	65	54	69	72	84	106	117	110
Civil	219	203	236	239	274	282	282	293
Electrical	120	138	99	142	175	204	184	208
Engineering science/physics	12	15	10	11	8	5	6	7
Industrial/manufacturing	117	135	141	167	175	179	211	187
Mechanical	57	52	49	65	83	96	114	108
Metallurgical/materials	30	26	24	26	28	38	31	32
Mining	0	0	1	2	2	0	5	4
Nuclear	4	5	8	9	9	7	7	10
Petroleum	1	2	16	17	11	6	6	6
Other	21	22	32	27	39	43	46	31
American Indian/Alaska Native	810	809	868	875	924	989	1,010	1,165
Science	747	742	798	810	855	904	932	990
Agricultural sciences	26	23	22	23	40	39	47	45
Biological sciences	103	106	110	110	123	147	157	164
Anatomy	2	2	1	0	1	3	2	1
Biochemistry	4	4	3	6	3	6	7	5
Biology	27	32	36	25	28	34	32	39
Biometry/epidemiology	5	5	9	9	10	13	13	10
Biophysics	1	1	1	1	1	0	3	1
Botany	2	4	3	5	6	6	6	4
Cell/molecular biology	7	8	11	10	10	11	12	15
Ecology	3	2	3	5	4	6	9	8
Entomology/parasitology	2	1	1	1	1	1	3	5
Genetics	3	3	5	6	6	8	10	6
Microbiology, immunology, and virology	9	4	5	3	10	5	9	9
Nutrition	13	13	12	15	13	12	7	13
Pathology	3	1	1	2	0	2	5	7
Pharmacology	4	10	4	3	7	8	11	9
Physiology	5	5	2	4	7	8	9	9
Zoology	3	3	4	3	3	4	4	4
Other	10	8	9	12	13	20	15	19



TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	24	24	30	29	31	36	30	33
Earth, atmospheric, and ocean sciences	40	31	28	33	36	33	27	31
Atmospheric	0	0	0	1	0	0	0	0
Earth	18	13	10	15	18	12	11	13
Ocean	7	5	4	6	6	6	9	9
Other	15	13	14	11	12	15	7	9
Mathematics and statistics	18	18	10	16	6	7	13	15
Mathematics/applied mathematics	15	15	6	14	6	7	13	13
Statistics	3	3	4	2	0	0	0	2
Physical sciences	23	29	21	27	28	25	28	34
Astronomy	1	1	0	0	1	2	2	4
Chemistry	18	23	18	23	20	18	20	21
Physics	4	5	3	4	7	5	5	7
Other	0	0	0	0	0	0	1	2
Psychology	224	212	257	251	237	229	235	243
Clinical	84	63	72	69	73	75	61	57
General	68	70	87	80	73	71	79	77
Nonclinical	72	79	98	102	91	83	95	109
Social sciences	289	299	320	321	354	388	395	425
Agricultural economics	3	1	1	0	2	2	15	15
Anthropology (cultural and social)	70	60	60	56	52	64	66	78
Economics	5	9	11	9	12	15	17	9
Geography	5	5	7	10	7	4	11	14
History and philosophy of science	0	1	2	2	1	2	3	4
Linguistics	7	10	8	9	8	10	9	6
Political science and public administration	84	91	90	99	119	133	138	147
Sociology	45	40	48	41	39	39	31	35
Other	70	82	93	95	114	119	105	117
Engineering	63	67	70	65	69	85	78	175
Aerospace	0	0	2	2	2	4	3	2
Agricultural	2	0	2	2	2	2	0	1
Biomedical	2	1	1	1	2	3	5	6
Chemical	8	5	11	8	8	6	13	7
Civil	12	13	10	14	18	23	16	14
Electrical	8	11	11	6	12	14	11	7
Engineering science/physics	1	1	2	2	3	4	5	4
Industrial/manufacturing	11	16	14	13	7	15	11	16
Mechanical	5	8	9	9	9	7	6	7
Metallurgical/materials	6	5	2	2	2	2	0	0
Mining	0	0	0	0	1	1	0	0
Nuclear	1	1	1	0	0	0	0	0
Petroleum	0	0	0	0	0	0	0	0
Other	7	6	5	6	3	4	8	111
Other race/ethnicity	7,840	8,126	8,908	9,122	9,922	11,232	12,672	15,005
Science	7,088	7,363	8,098	8,255	8,924	9,977	11,548	13,674
Agricultural sciences	135	113	185	220	213	218	238	255
Biological sciences	1,090	1,215	1,223	1,286	1,389	1,675	1,757	2,006
Anatomy	15	9	10	5	18	14	17	22
Biochemistry	59	61	42	69	105	128	95	129
Biology	368	397	337	342	363	443	516	511
Biometry/epidemiology	140	101	99	115	63	83	95	159
Biophysics	25	13	15	6	10	10	14	15
Botany	31	21	26	27	33	37	43	48
Cell/molecular biology	65	98	140	153	176	208	163	200
Ecology	25	32	49	45	54	84	85	85
Entomology/parasitology	10	9	10	10	11	10	12	18
Genetics	18	63	73	58	50	54	63	58
Microbiology, immunology, and virology	68	130	118	110	121	140	132	136

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	68	78	100	128	114	136	148	210
Pathology	32	38	39	39	40	40	30	41
Pharmacology	26	27	25	34	43	51	46	50
Physiology	23	24	25	14	22	40	48	53
Zoology	30	21	25	22	21	26	17	19
Other	87	93	90	109	145	171	233	252
Computer sciences	649	667	824	839	964	894	838	739
Earth, atmospheric, and ocean sciences	247	210	188	194	239	321	336	321
Atmospheric	16	11	11	10	10	16	6	16
Earth	115	79	80	74	107	143	141	137
Ocean	43	28	32	36	33	45	55	55
Other	73	92	65	74	89	117	134	113
Mathematics and statistics	225	219	210	249	303	335	340	370
Mathematics/applied mathematics	186	187	169	195	242	293	285	302
Statistics	39	32	41	54	61	42	55	68
Physical sciences	291	284	309	356	339	410	410	421
Astronomy	15	6	13	13	16	19	16	24
Chemistry	183	170	184	194	198	267	279	286
Physics	77	75	72	117	94	97	89	99
Other	16	33	40	32	31	27	26	12
Psychology	2,402	2,582	2,682	2,402	2,366	2,623	3,674	5,094
Clinical	378	445	459	621	625	655	1,013	1,362
General	593	606	684	678	537	655	696	790
Nonclinical	1,431	1,531	1,539	1,103	1,204	1,313	1,965	2,942
Social sciences	2,049	2,073	2,477	2,709	3,111	3,501	3,955	4,468
Agricultural economics	21	13	14	24	27	21	29	32
Anthropology (cultural and social)	194	236	290	311	308	356	371	400
Economics	127	99	141	171	182	149	157	144
Geography	88	74	84	77	86	102	100	104
History and philosophy of science	4	6	8	10	31	28	35	31
Linguistics	74	72	109	91	103	151	124	122
Political science and public administration	750	727	886	1,018	1,357	1,643	1,997	2,366
Sociology	196	207	243	220	254	250	292	319
Other	595	639	702	787	763	801	850	950
Engineering	752	763	810	867	998	1,255	1,124	1,331
Aerospace	12	18	15	15	21	36	31	33
Agricultural	8	12	13	10	5	7	6	4
Biomedical	34	32	22	53	63	108	74	117
Chemical	54	63	67	46	56	64	65	62
Civil	163	152	129	156	209	227	229	263
Electrical	253	237	292	301	280	361	251	308
Engineering science/physics	6	12	17	23	21	5	15	21
Industrial/manufacturing	105	107	119	112	152	193	204	234
Mechanical	58	65	72	66	81	99	105	129
Metallurgical/materials	29	16	13	21	17	30	26	29
Mining	1	0	0	0	0	0	2	2
Nuclear	0	1	1	1	2	4	6	8
Petroleum	1	1	8	8	12	2	2	2
Other	28	47	42	55	79	119	108	119
Temporary residents	30,038	32,965	36,791	40,734	44,368	46,003	46,014	45,485
Science	23,431	25,459	28,100	30,904	33,206	33,862	34,000	33,910
Agricultural sciences	846	855	847	937	1,012	1,038	1,091	1,087
Biological sciences	5,450	5,441	5,843	6,380	7,153	7,907	8,522	8,882
Anatomy	58	66	73	74	84	101	85	91
Biochemistry	633	662	720	760	822	914	951	1,035
Biology	1,021	977	1,027	1,129	1,272	1,391	1,542	1,643
Biometry/epidemiology	335	376	433	512	612	698	698	701
Biophysics	45	43	56	75	85	108	138	136

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	279	257	269	273	303	293	308	329
Cell/molecular biology	426	474	563	613	696	792	915	935
Ecology	72	74	85	84	92	136	130	118
Entomology/parasitology	80	84	85	85	96	105	117	108
Genetics	197	172	181	209	218	274	308	327
Microbiology, immunology, and virology	464	482	469	544	631	634	716	698
Nutrition	706	686	731	764	756	750	758	748
Pathology	133	126	131	137	154	182	161	172
Pharmacology	282	279	319	350	391	441	446	477
Physiology	184	188	189	213	224	264	263	247
Zoology	78	68	82	88	98	89	88	98
Other	457	427	430	470	619	735	898	1,019
Computer sciences	4,225	5,133	6,674	7,659	7,819	6,765	5,903	5,247
Earth, atmospheric, and ocean sciences	763	857	896	981	1,012	1,042	1,075	1,091
Atmospheric	88	105	102	106	117	107	103	114
Earth	294	331	355	385	432	477	502	514
Ocean	182	184	202	206	185	196	218	207
Other	199	237	237	284	278	262	252	256
Mathematics and statistics	1,783	2,061	2,119	2,343	2,507	2,756	2,689	2,678
Mathematics/applied mathematics	1,332	1,495	1,474	1,519	1,586	1,629	1,619	1,634
Statistics	451	566	645	824	921	1,127	1,070	1,044
Physical sciences	2,920	3,053	3,283	3,477	3,888	4,255	4,518	4,579
Astronomy	49	53	70	74	73	92	97	92
Chemistry	2,123	2,140	2,279	2,402	2,742	3,020	3,218	3,225
Physics	718	829	911	967	1,039	1,117	1,177	1,239
Other	30	31	23	34	34	26	26	23
Psychology	1,388	1,449	1,511	1,744	1,765	1,957	1,924	2,125
Clinical	250	280	306	334	373	390	331	389
General	386	435	500	607	563	652	648	733
Nonclinical	752	734	705	803	829	915	945	1,003
Social sciences	6,056	6,610	6,927	7,383	8,050	8,142	8,278	8,221
Agricultural economics	290	322	376	412	416	433	377	385
Anthropology (cultural and social)	387	448	465	421	460	456	490	475
Economics	1,656	1,780	1,950	2,160	2,330	2,433	2,467	2,410
Geography	209	237	244	293	320	337	335	329
History and philosophy of science	23	18	30	25	27	22	25	26
Linguistics	656	600	614	632	654	627	658	618
Political science and public administration	1,424	1,641	1,799	1,903	2,237	2,298	2,342	2,305
Sociology	598	665	723	785	783	793	750	768
Other	813	899	726	752	823	743	834	905
Engineering	6,607	7,506	8,691	9,830	11,162	12,141	12,014	11,575
Aerospace	158	168	187	210	216	213	223	207
Agricultural	106	105	97	104	105	124	128	146
Biomedical	190	256	290	368	496	638	748	738
Chemical	668	713	821	844	909	1,006	978	965
Civil	1,056	1,202	1,368	1,546	1,696	1,846	1,879	1,797
Electrical	2,354	2,744	3,290	3,832	4,602	4,832	4,613	4,231
Engineering science/physics	111	104	147	154	178	230	211	184
Industrial/manufacturing	583	656	817	918	962	1,005	992	1,057
Mechanical	609	647	781	827	919	988	1,019	1,002
Metallurgical/materials	453	466	460	551	583	629	631	660
Mining	4	12	14	4	7	12	9	9
Nuclear	46	57	61	69	61	67	73	68
Petroleum	40	65	47	51	67	105	101	93
Other	229	311	311	352	361	446	409	418

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All male S&E graduate students	241,429	242,786	243,057	251,812	266,219	276,260	274,113	272,119
Science	160,379	160,982	159,691	164,576	171,518	176,470	177,819	178,524
Agricultural sciences	7,316	7,263	6,935	6,892	7,045	7,171	7,187	6,921
Biological sciences	27,742	27,338	26,475	26,590	27,677	28,818	29,270	29,946
Anatomy	443	404	428	383	455	442	430	472
Biochemistry	2,919	2,835	2,735	2,694	2,768	2,957	2,969	2,996
Biology	7,064	6,846	6,401	6,163	6,308	6,612	6,841	7,037
Biometry/epidemiology	1,361	1,381	1,374	1,390	1,519	1,668	1,807	1,796
Biophysics	528	497	520	615	647	693	746	775
Botany	1,031	992	918	947	954	905	857	875
Cell/molecular biology	2,238	2,277	2,326	2,390	2,584	2,683	2,735	2,887
Ecology	840	823	846	909	928	1,022	993	955
Entomology/parasitology	754	739	662	690	699	669	676	606
Genetics	744	767	739	795	797	857	846	846
Microbiology, immunology, and virology	2,402	2,365	2,382	2,303	2,400	2,323	2,322	2,319
Nutrition	1,073	1,077	1,034	993	1,027	1,037	1,050	1,026
Pathology	776	776	702	742	707	631	629	629
Pharmacology	1,405	1,414	1,447	1,482	1,461	1,539	1,429	1,401
Physiology	1,265	1,185	1,133	1,056	1,082	1,184	1,180	1,144
Zoology	892	853	803	744	711	656	596	628
Other	2,007	2,107	2,025	2,294	2,630	2,940	3,164	3,554
Computer sciences	27,225	29,933	33,270	36,894	39,244	38,880	36,739	35,985
Earth, atmospheric, and ocean sciences	8,690	8,358	8,188	7,949	7,993	8,082	8,199	7,939
Atmospheric	731	671	695	626	703	776	723	758
Earth	4,372	4,237	4,141	4,061	4,099	4,125	4,299	4,169
Ocean	1,400	1,402	1,401	1,330	1,309	1,303	1,292	1,279
Other	2,187	2,048	1,951	1,932	1,882	1,878	1,885	1,733
Mathematics and statistics	10,497	10,214	9,870	10,381	11,277	12,176	12,434	12,773
Mathematics/applied mathematics	8,932	8,659	8,315	8,751	9,463	10,163	10,351	10,546
Statistics	1,565	1,555	1,555	1,630	1,814	2,013	2,083	2,227
Physical sciences	21,822	21,776	21,270	21,702	22,275	23,520	24,461	24,670
Astronomy	590	607	621	651	688	735	764	797
Chemistry	11,918	11,799	11,349	11,511	11,720	12,210	12,544	12,699
Physics	9,029	8,993	8,931	9,206	9,500	10,189	10,797	10,803
Other	285	377	369	334	367	386	356	371
Psychology	15,095	14,456	13,594	13,149	13,437	13,395	13,992	13,993
Clinical	3,560	3,513	3,205	3,089	3,142	3,163	3,148	3,271
General	5,251	4,851	4,597	4,554	4,483	4,582	5,169	4,725
Nonclinical	6,284	6,092	5,792	5,506	5,812	5,650	5,675	5,997
Social sciences	41,992	41,644	40,089	41,019	42,570	44,428	45,537	46,297
Agricultural economics	1,315	1,299	1,290	1,326	1,343	1,418	1,341	1,245
Anthropology (cultural and social)	3,021	2,989	2,941	2,929	2,864	2,919	2,853	2,782
Economics	7,237	7,063	6,983	7,413	7,741	7,808	7,833	7,551
Geography	2,663	2,547	2,409	2,503	2,540	2,693	2,801	2,759
History and philosophy of science	315	345	313	327	362	425	580	525
Linguistics	982	966	930	951	984	1,023	1,014	1,132
Political science and public administration	15,867	15,799	15,204	15,304	16,315	17,038	18,292	19,020
Sociology	3,362	3,227	3,072	3,080	3,178	3,226	3,080	3,237
Other	7,230	7,409	6,947	7,186	7,243	7,878	7,743	8,046
Engineering	81,050	81,804	83,366	87,236	94,701	99,790	96,294	93,595
Aerospace	2,755	2,926	2,938	2,966	3,169	3,445	3,489	3,563
Agricultural	715	717	661	647	664	743	730	736
Biomedical	2,002	2,083	2,141	2,361	2,825	3,357	3,624	3,770
Chemical	5,366	5,150	5,181	5,084	5,419	5,416	5,346	5,094
Civil	12,415	12,069	12,174	12,162	12,808	13,492	13,120	12,655
Electrical	26,512	26,689	28,075	29,888	32,678	33,969	31,794	30,656
Engineering science/physics	1,370	1,308	1,290	1,435	1,691	1,775	1,733	1,532
Industrial/manufacturing	8,769	9,144	9,406	10,132	10,957	11,047	10,622	10,327
Mechanical	12,934	13,168	13,403	13,908	15,056	16,039	15,396	14,977

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical/materials	3,550	3,397	3,336	3,548	3,741	3,800	3,738	3,812
Mining	249	273	241	204	230	236	266	240
Nuclear	687	686	636	644	647	703	775	802
Petroleum	516	560	540	565	659	720	711	687
Other	3,210	3,634	3,344	3,692	4,157	5,048	4,950	4,744
U.S. citizens and permanent residents	169,490	165,823	157,023	158,015	164,975	174,927	176,556	178,372
Science	119,622	118,016	112,367	113,471	117,418	122,980	125,358	127,037
Agricultural sciences	5,508	5,580	5,371	5,316	5,444	5,613	5,583	5,359
Biological sciences	21,856	21,590	20,557	20,536	21,004	21,889	21,999	22,426
Anatomy	346	317	324	281	340	340	336	375
Biochemistry	2,099	2,042	1,866	1,869	1,859	1,974	1,923	1,942
Biology	6,005	5,831	5,374	5,099	5,135	5,434	5,603	5,686
Biometry/epidemiology	1,017	1,006	986	999	1,032	1,170	1,293	1,295
Biophysics	407	386	372	427	433	482	509	536
Botany	704	661	603	646	639	614	563	539
Cell/molecular biology	1,767	1,853	1,858	1,870	2,018	2,043	2,025	2,134
Ecology	740	723	745	799	802	886	851	824
Entomology/parasitology	543	521	467	500	512	488	490	432
Genetics	545	556	543	571	591	616	602	608
Microbiology, immunology, and virology	1,906	1,904	1,916	1,843	1,834	1,814	1,810	1,797
Nutrition	708	699	649	597	621	587	636	631
Pathology	621	607	532	586	562	482	474	461
Pharmacology	1,111	1,124	1,141	1,184	1,172	1,207	1,071	1,025
Physiology	1,011	919	876	838	852	927	924	925
Zoology	780	762	711	631	590	565	502	515
Other	1,546	1,679	1,594	1,796	2,012	2,260	2,387	2,701
Computer sciences	17,028	17,911	17,682	18,499	19,997	21,369	20,912	20,741
Earth, atmospheric, and ocean sciences	6,954	6,695	6,392	6,148	6,237	6,349	6,487	6,269
Atmospheric	564	502	493	447	514	602	559	589
Earth	3,422	3,344	3,194	3,091	3,152	3,169	3,349	3,256
Ocean	1,049	1,070	1,077	1,022	1,028	1,010	1,013	996
Other	1,919	1,779	1,628	1,588	1,543	1,568	1,566	1,428
Mathematics and statistics	6,859	6,348	5,932	6,240	6,760	7,524	7,752	8,055
Mathematics/applied mathematics	5,884	5,494	5,112	5,423	5,835	6,487	6,673	6,930
Statistics	975	854	820	817	925	1,037	1,079	1,125
Physical sciences	14,004	13,697	12,898	12,976	13,073	13,690	14,424	14,633
Astronomy	426	421	420	442	458	494	491	526
Chemistry	8,016	7,854	7,406	7,344	7,209	7,391	7,671	7,707
Physics	5,317	5,093	4,758	4,916	5,097	5,495	5,956	6,076
Other	245	329	314	274	309	310	306	324
Psychology	14,297	13,666	12,842	12,372	12,345	12,240	12,743	13,090
Clinical	3,447	3,397	3,121	2,995	2,920	2,934	3,045	3,171
General	4,942	4,566	4,285	4,227	4,064	4,126	4,442	4,307
Nonclinical	5,908	5,703	5,436	5,150	5,361	5,180	5,256	5,612
Social sciences	33,116	32,529	30,693	31,384	32,558	34,306	35,458	36,464
Agricultural economics	701	696	652	686	713	754	725	674
Anthropology (cultural and social)	2,669	2,614	2,577	2,581	2,477	2,553	2,483	2,412
Economics	3,653	3,310	3,126	3,289	3,451	3,624	3,718	3,584
Geography	2,313	2,186	2,025	2,071	2,113	2,246	2,346	2,307
History and philosophy of science	271	304	274	282	321	378	536	472
Linguistics	615	604	584	621	656	687	667	820
Political science and public administration	13,739	13,521	12,844	12,984	13,898	14,459	15,682	16,453
Sociology	2,851	2,716	2,540	2,558	2,640	2,674	2,562	2,706
Other	6,304	6,578	6,071	6,312	6,289	6,931	6,739	7,036
Engineering	49,868	47,807	44,656	44,544	47,557	51,947	51,198	51,335
Aerospace	1,496	1,562	1,612	1,530	1,699	1,971	2,024	2,128
Agricultural	402	398	361	334	346	377	373	361
Biomedical	1,477	1,488	1,482	1,600	1,805	2,091	2,240	2,369

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	3,149	2,849	2,672	2,433	2,615	2,659	2,640	2,576
Civil	8,509	7,846	7,397	7,115	7,344	7,906	7,874	7,819
Electrical	14,941	14,128	13,069	13,154	13,911	15,156	14,290	14,149
Engineering science/physics	929	878	760	845	987	995	933	861
Industrial/manufacturing	6,000	6,070	5,678	5,717	6,204	6,584	6,545	6,835
Mechanical	7,893	7,619	7,046	7,066	7,440	8,277	8,329	8,336
Metallurgical/materials	1,993	1,820	1,684	1,763	1,814	1,844	1,811	1,830
Mining	177	176	123	104	135	137	156	131
Nuclear	439	411	362	357	377	417	493	531
Petroleum	108	131	225	227	258	150	161	164
Other	2,355	2,431	2,185	2,299	2,622	3,383	3,329	3,245
White	125,734	121,810	113,782	113,259	116,606	122,137	123,015	123,310
Science	89,802	87,611	82,325	82,401	84,106	87,560	88,638	89,155
Agricultural sciences	4,759	4,856	4,626	4,547	4,670	4,738	4,745	4,516
Biological sciences	16,869	16,511	15,578	15,347	15,600	16,060	16,030	16,215
Anatomy	263	238	241	218	248	238	239	259
Biochemistry	1,598	1,507	1,409	1,356	1,369	1,393	1,400	1,399
Biology	4,636	4,470	4,105	3,920	3,914	4,105	4,177	4,227
Biometry/epidemiology	712	696	672	664	663	785	831	788
Biophysics	266	266	253	290	299	338	376	380
Botany	605	576	521	540	520	503	462	456
Cell/molecular biology	1,354	1,409	1,355	1,332	1,427	1,427	1,455	1,501
Ecology	652	654	651	703	700	751	716	688
Entomology/parasitology	487	474	423	423	449	429	429	374
Genetics	426	395	384	406	406	412	407	422
Microbiology, immunology, and virology	1,467	1,404	1,409	1,305	1,313	1,282	1,280	1,250
Nutrition	547	543	492	436	460	437	457	451
Pathology	460	436	380	407	390	321	329	335
Pharmacology	834	852	867	878	855	868	747	696
Physiology	728	635	586	570	580	634	623	632
Zoology	683	701	650	567	520	492	447	450
Other	1,151	1,255	1,180	1,332	1,487	1,645	1,655	1,907
Computer sciences	10,750	10,856	10,839	11,279	12,000	13,221	13,100	12,968
Earth, atmospheric, and ocean sciences	6,033	5,873	5,612	5,362	5,389	5,422	5,520	5,326
Atmospheric	493	441	431	391	448	502	459	481
Earth	3,023	2,986	2,850	2,752	2,761	2,757	2,939	2,840
Ocean	903	930	951	872	891	869	861	833
Other	1,614	1,516	1,380	1,347	1,289	1,294	1,261	1,172
Mathematics and statistics	5,057	4,798	4,354	4,587	4,877	5,353	5,565	5,738
Mathematics/applied mathematics	4,313	4,129	3,728	3,957	4,202	4,585	4,827	4,987
Statistics	744	669	626	630	675	768	738	751
Physical sciences	11,048	10,872	10,176	10,084	10,123	10,515	11,007	11,310
Astronomy	362	365	360	373	388	411	425	440
Chemistry	6,308	6,212	5,855	5,806	5,611	5,619	5,767	5,910
Physics	4,208	4,101	3,773	3,730	3,926	4,288	4,619	4,707
Other	170	194	188	175	198	197	196	253
Psychology	10,915	10,195	9,359	9,025	8,818	8,687	8,572	8,765
Clinical	2,736	2,635	2,342	2,205	2,101	2,094	2,074	2,071
General	3,788	3,480	3,188	3,165	3,033	2,985	2,981	3,084
Nonclinical	4,391	4,080	3,829	3,655	3,684	3,608	3,517	3,610
Social sciences	24,371	23,650	21,781	22,170	22,629	23,564	24,099	24,317
Agricultural economics	565	572	535	557	589	629	612	562
Anthropology (cultural and social)	2,190	2,130	2,049	2,042	1,962	1,986	1,926	1,846
Economics	2,601	2,445	2,230	2,304	2,336	2,450	2,573	2,531
Geography	1,972	1,889	1,745	1,785	1,806	1,892	1,980	1,916
History and philosophy of science	231	261	228	232	229	296	405	371
Linguistics	470	474	436	463	466	489	457	553
Political science and public administration	9,881	9,554	8,851	8,945	9,306	9,513	10,102	10,331

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	1,946	1,798	1,683	1,700	1,747	1,764	1,688	1,793
Other	4,515	4,527	4,024	4,142	4,188	4,545	4,356	4,414
Engineering	35,932	34,199	31,457	30,858	32,500	34,577	34,377	34,155
Aerospace	1,216	1,239	1,233	1,224	1,295	1,468	1,535	1,572
Agricultural	320	329	301	275	298	322	320	305
Biomedical	1,120	1,125	1,070	1,106	1,259	1,371	1,446	1,513
Chemical	2,420	2,162	1,964	1,807	1,912	1,919	1,990	1,897
Civil	6,459	5,990	5,641	5,381	5,479	5,834	5,772	5,672
Electrical	9,495	8,798	8,001	7,865	8,093	8,673	8,476	8,237
Engineering science/physics	693	650	539	579	723	749	692	641
Industrial/manufacturing	4,492	4,446	4,118	4,093	4,419	4,357	4,223	4,420
Mechanical	5,866	5,742	5,318	5,204	5,511	5,979	6,074	6,036
Metallurgical/materials	1,573	1,492	1,325	1,390	1,414	1,427	1,326	1,377
Mining	114	129	104	86	111	111	132	99
Nuclear	378	358	313	300	320	352	408	438
Petroleum	92	111	95	102	110	113	109	100
Other	1,694	1,628	1,435	1,446	1,556	1,902	1,874	1,848
Asian/Pacific Islander	15,896	16,046	14,404	15,189	16,665	18,062	17,079	16,896
Science	9,718	9,894	8,914	9,253	9,937	10,408	10,265	10,148
Agricultural sciences	160	143	112	115	136	151	136	139
Biological sciences	2,089	2,099	1,993	2,171	2,189	2,264	2,260	2,315
Anatomy	39	42	51	34	41	46	44	51
Biochemistry	283	306	231	266	221	247	232	219
Biology	363	355	337	315	330	342	377	358
Biometry/epidemiology	111	119	134	139	169	165	211	204
Biophysics	72	71	72	94	81	83	63	77
Botany	34	25	22	39	50	42	36	23
Cell/molecular biology	223	222	246	255	279	281	231	287
Ecology	21	18	16	18	13	17	22	19
Entomology/parasitology	20	9	9	27	15	14	17	13
Genetics	62	79	53	74	87	100	95	94
Microbiology, immunology, and virology	210	196	197	235	214	216	210	215
Nutrition	57	56	56	53	50	49	44	55
Pathology	84	94	83	87	90	78	71	60
Pharmacology	150	146	138	168	174	158	136	145
Physiology	168	170	166	155	160	178	191	182
Zoology	26	15	13	17	16	14	15	14
Other	166	176	169	195	199	234	265	299
Computer sciences	3,299	3,826	3,323	3,440	3,810	3,794	3,458	3,241
Earth, atmospheric, and ocean sciences	238	208	179	171	158	163	207	197
Atmospheric	38	33	25	15	16	34	35	41
Earth	96	78	72	84	79	63	70	75
Ocean	36	31	29	21	27	17	27	27
Other	68	66	53	51	36	49	75	54
Mathematics and statistics	704	565	531	552	653	739	735	787
Mathematics/applied mathematics	570	471	435	480	546	631	593	621
Statistics	134	94	96	72	107	108	142	166
Physical sciences	1,150	1,046	951	916	893	970	1,052	1,002
Astronomy	17	18	19	21	26	36	23	29
Chemistry	694	638	606	551	539	593	634	586
Physics	432	373	317	334	312	322	381	373
Other	7	17	9	10	16	19	14	14
Psychology	551	536	532	548	553	576	562	565
Clinical	127	126	116	110	103	104	109	113
General	189	172	192	187	185	231	237	241
Nonclinical	235	238	224	251	265	241	216	211

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	1,527	1,471	1,293	1,340	1,545	1,751	1,855	1,902
Agricultural economics	29	35	17	14	19	20	16	16
Anthropology (cultural and social)	74	73	68	67	78	94	89	89
Economics	386	357	264	293	326	362	336	336
Geography	42	47	39	42	55	62	66	76
History and philosophy of science	13	11	11	11	12	12	28	16
Linguistics	54	34	28	48	48	55	48	76
Political science and public administration	548	529	526	521	634	687	787	805
Sociology	143	144	117	120	120	136	125	127
Other	238	241	223	224	253	323	360	361
Engineering	6,178	6,152	5,490	5,936	6,728	7,654	6,814	6,748
Aerospace	119	132	180	111	155	171	161	189
Agricultural	31	26	19	23	23	20	31	23
Biomedical	181	203	236	263	288	385	431	455
Chemical	321	310	336	334	362	352	285	297
Civil	791	615	506	492	557	658	622	606
Electrical	2,734	2,787	2,457	2,726	3,107	3,442	2,843	2,850
Engineering science/physics	143	127	84	98	118	116	120	102
Industrial/manufacturing	487	586	464	492	611	738	671	747
Mechanical	835	829	674	777	743	861	818	775
Metallurgical/materials	197	155	173	166	196	217	250	219
Mining	44	40	10	11	19	3	5	4
Nuclear	28	16	19	19	24	21	28	31
Petroleum	3	10	37	35	38	9	17	19
Other	264	316	295	389	487	661	532	431
Black	8,320	8,565	8,298	8,383	8,909	9,456	9,799	9,653
Science	6,378	6,576	6,348	6,449	6,897	7,285	7,529	7,283
Agricultural sciences	168	159	139	126	162	194	153	172
Biological sciences	764	761	760	792	812	858	864	922
Anatomy	13	12	10	6	13	15	16	19
Biochemistry	67	64	63	53	50	63	59	68
Biology	260	262	243	248	231	253	247	270
Biometry/epidemiology	56	58	46	49	62	63	70	73
Biophysics	10	9	10	10	10	9	13	14
Botany	10	8	7	11	12	12	6	4
Cell/molecular biology	59	49	59	63	68	55	63	61
Ecology	9	11	13	13	9	16	8	8
Entomology/parasitology	5	9	6	9	9	5	2	4
Genetics	17	20	25	23	20	20	15	15
Microbiology, immunology, and virology	61	62	68	57	65	72	83	84
Nutrition	44	42	41	46	52	38	49	52
Pathology	14	14	13	19	19	21	16	14
Pharmacology	51	55	56	59	54	70	67	65
Physiology	37	27	42	42	36	35	36	32
Zoology	4	5	5	5	7	5	4	6
Other	47	54	53	79	95	106	110	133
Computer sciences	764	815	844	943	1,063	1,128	1,095	1,049
Earth, atmospheric, and ocean sciences	103	112	120	125	135	130	120	110
Atmospheric	5	3	9	12	15	20	22	17
Earth	35	31	32	32	37	40	41	39
Ocean	10	14	14	16	13	9	8	10
Other	53	64	65	65	70	61	49	44
Mathematics and statistics	339	324	299	320	340	373	365	371
Mathematics/applied mathematics	307	295	270	284	296	318	303	317
Statistics	32	29	29	36	44	55	62	54
Physical sciences	481	501	493	462	486	508	541	526
Astronomy	6	6	5	8	6	4	4	5
Chemistry	303	315	308	290	304	314	333	298



TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	159	164	168	158	168	179	191	205
Other	13	16	12	6	8	11	13	18
Psychology	887	905	871	868	946	934	1,244	953
Clinical	165	165	163	148	153	147	170	158
General	370	353	326	323	344	364	644	348
Nonclinical	352	387	382	397	449	423	430	447
Social sciences	2,872	2,999	2,822	2,813	2,953	3,160	3,147	3,180
Agricultural economics	45	49	42	41	42	40	24	27
Anthropology (cultural and social)	82	82	74	58	59	61	56	52
Economics	191	158	162	163	185	209	224	178
Geography	65	48	47	61	55	61	65	77
History and philosophy of science	8	7	8	7	13	16	20	22
Linguistics	14	13	13	15	17	14	16	21
Political science and public administration	1,456	1,567	1,445	1,468	1,590	1,610	1,708	1,677
Sociology	387	373	325	316	323	343	297	311
Other	624	702	706	684	669	806	737	815
Engineering	1,942	1,989	1,950	1,934	2,012	2,171	2,270	2,370
Aerospace	27	44	49	41	45	50	54	58
Agricultural	20	20	15	12	11	14	9	13
Biomedical	39	51	53	58	67	68	78	89
Chemical	105	68	89	78	79	95	95	86
Civil	277	277	270	273	271	273	291	295
Electrical	680	686	629	620	645	629	656	654
Engineering science/physics	32	28	21	23	29	36	26	26
Industrial/manufacturing	257	309	310	349	352	419	441	482
Mechanical	308	287	292	273	279	296	278	321
Metallurgical/materials	44	49	51	61	61	59	57	53
Mining	1	1	4	1	1	2	5	3
Nuclear	9	7	6	7	5	4	8	8
Petroleum	5	5	7	3	6	10	17	27
Other	138	157	154	135	161	216	255	255
Hispanic	7,842	8,196	8,268	8,514	9,188	10,183	10,602	10,949
Science	5,629	5,974	5,988	6,173	6,688	7,261	7,537	7,956
Agricultural sciences	211	209	223	210	197	251	267	243
Biological sciences	924	968	963	1,009	1,120	1,218	1,252	1,319
Anatomy	11	15	14	13	24	26	17	23
Biochemistry	72	82	74	87	96	119	104	117
Biology	315	318	330	313	349	353	344	371
Biometry/epidemiology	49	47	54	46	71	78	76	79
Biophysics	13	15	12	17	17	22	21	27
Botany	26	22	20	23	23	20	22	21
Cell/molecular biology	62	76	68	84	90	96	113	121
Ecology	23	15	18	18	22	20	26	31
Entomology/parasitology	18	16	18	21	16	16	18	22
Genetics	25	25	24	24	28	24	28	30
Microbiology, immunology, and virology	84	94	89	100	104	117	122	118
Nutrition	27	31	25	28	20	37	54	38
Pathology	19	28	25	31	28	30	33	27
Pharmacology	43	40	50	53	54	55	68	67
Physiology	43	44	39	34	38	45	41	45
Zoology	18	21	16	16	20	22	14	20
Other	76	79	87	101	120	138	151	162
Computer sciences	559	653	617	650	733	815	858	929
Earth, atmospheric, and ocean sciences	202	200	186	196	191	223	235	226
Atmospheric	11	4	8	8	10	13	15	24
Earth	83	84	80	77	82	87	106	101
Ocean	48	62	54	72	60	72	70	68
Other	60	50	44	39	39	51	44	33

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	276	270	310	322	335	381	395	418
Mathematics/applied mathematics	251	241	277	295	307	342	348	369
Statistics	25	29	33	27	28	39	47	49
Physical sciences	525	549	507	539	605	678	743	751
Astronomy	10	10	14	12	9	14	10	12
Chemistry	315	329	315	337	361	411	441	428
Physics	183	188	162	181	221	237	272	289
Other	17	22	16	9	14	16	20	22
Psychology	881	957	1,039	1,048	1,128	1,131	1,132	1,178
Clinical	261	260	323	333	360	379	367	379
General	276	278	264	280	267	268	284	310
Nonclinical	344	419	452	435	501	484	481	489
Social sciences	2,051	2,168	2,143	2,199	2,379	2,564	2,655	2,892
Agricultural economics	21	19	23	22	17	24	27	28
Anthropology (cultural and social)	149	129	148	159	166	176	160	171
Economics	178	159	160	204	214	235	236	225
Geography	64	64	57	59	71	87	78	86
History and philosophy of science	8	14	11	12	37	22	30	29
Linguistics	33	35	39	33	45	43	63	55
Political science and public administration	902	979	1,009	932	1,057	1,167	1,251	1,379
Sociology	243	262	234	242	261	257	261	274
Other	453	507	462	536	511	553	549	645
Engineering	2,213	2,222	2,280	2,341	2,500	2,922	3,065	2,993
Aerospace	67	70	67	54	69	93	96	100
Agricultural	10	12	11	11	8	6	4	3
Biomedical	53	50	63	70	78	98	116	117
Chemical	114	128	113	108	122	143	132	130
Civil	504	498	540	508	504	564	616	603
Electrical	692	631	618	683	766	890	913	882
Engineering science/physics	30	29	26	29	39	44	39	36
Industrial/manufacturing	247	291	298	302	302	383	418	392
Mechanical	332	336	317	342	367	441	452	467
Metallurgical/materials	54	49	60	54	51	60	68	74
Mining	4	2	1	1	1	3	5	5
Nuclear	18	23	22	25	17	24	21	28
Petroleum	5	3	43	46	46	7	9	11
Other	83	100	101	108	130	166	176	145
American Indian/Alaska Native	797	744	734	808	810	890	853	959
Science	624	569	596	646	635	671	653	705
Agricultural sciences	45	46	34	35	36	38	35	31
Biological sciences	88	80	79	95	87	89	92	114
Anatomy	1	1	3	3	1	1	0	1
Biochemistry	9	2	5	9	5	5	3	10
Biology	24	27	22	27	22	22	22	29
Biometry/epidemiology	2	2	2	2	4	3	2	5
Biophysics	0	0	0	0	1	1	4	2
Botany	1	0	0	4	4	4	4	4
Cell/molecular biology	4	1	2	1	2	3	6	8
Ecology	2	3	2	3	2	4	3	3
Entomology/parasitology	1	0	0	1	4	3	3	4
Genetics	1	1	1	1	1	4	3	4
Microbiology, immunology, and virology	9	11	16	10	14	9	9	7
Nutrition	3	2	1	0	1	1	2	2
Pathology	7	6	5	9	3	1	0	1
Pharmacology	2	4	4	7	8	11	10	11
Physiology	5	3	1	3	1	3	4	3
Zoology	6	4	3	5	3	4	3	6
Other	11	13	12	10	11	10	14	14

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	68	50	50	58	52	68	62	67
Earth, atmospheric, and ocean sciences	44	32	33	37	45	30	40	30
Atmospheric	2	2	3	3	4	5	4	3
Earth	18	13	17	17	18	14	22	16
Ocean	9	7	6	6	5	2	2	2
Other	15	10	7	11	18	9	12	9
Mathematics and statistics	16	12	15	22	18	18	26	23
Mathematics/applied mathematics	15	11	14	20	14	17	26	21
Statistics	1	1	1	2	4	1	0	2
Physical sciences	41	40	54	54	55	54	50	48
Astronomy	1	1	1	0	1	1	1	1
Chemistry	28	30	43	39	38	33	34	32
Physics	10	8	9	15	15	19	13	13
Other	2	1	1	0	1	1	2	2
Psychology	87	88	103	83	83	95	89	91
Clinical	28	30	32	23	28	32	31	31
General	25	26	37	24	14	22	25	22
Nonclinical	34	32	34	36	41	41	33	38
Social sciences	235	221	228	262	259	279	259	301
Agricultural economics	2	6	6	4	2	5	11	8
Anthropology (cultural and social)	49	45	49	46	37	35	40	45
Economics	11	4	6	12	16	16	13	10
Geography	8	9	13	18	19	18	13	20
History and philosophy of science	1	1	0	0	1	3	4	1
Linguistics	2	5	5	4	4	6	8	11
Political science and public administration	88	86	85	93	98	108	81	104
Sociology	23	26	20	25	29	26	25	27
Other	51	39	44	60	53	62	64	75
Engineering	173	175	138	162	175	219	200	254
Aerospace	7	8	6	6	9	11	13	11
Agricultural	2	1	1	1	0	0	1	2
Biomedical	5	7	4	4	4	4	10	7
Chemical	13	11	9	5	13	13	14	17
Civil	31	43	29	29	40	42	35	38
Electrical	25	36	26	39	27	49	43	47
Engineering science/physics	6	5	6	7	6	7	6	5
Industrial/manufacturing	23	23	27	30	27	37	37	35
Mechanical	20	25	18	23	23	35	18	21
Metallurgical/materials	27	5	3	6	9	6	6	5
Mining	0	0	1	0	2	3	1	0
Nuclear	1	1	0	0	2	1	3	3
Petroleum	2	0	1	1	1	0	0	0
Other	11	10	7	11	12	11	13	63
Other race/ethnicity	10,901	10,462	11,537	11,862	12,797	14,199	15,208	16,605
Science	7,471	7,392	8,196	8,549	9,155	9,795	10,736	11,790
Agricultural sciences	165	167	237	283	243	241	247	258
Biological sciences	1,122	1,171	1,184	1,122	1,196	1,400	1,501	1,541
Anatomy	19	9	5	7	13	14	20	22
Biochemistry	70	81	84	98	118	147	125	129
Biology	407	399	337	276	289	359	436	431
Biometry/epidemiology	87	84	78	99	63	76	103	146
Biophysics	46	25	25	16	25	29	32	36
Botany	28	30	33	29	30	33	33	31
Cell/molecular biology	65	96	128	135	152	181	157	156
Ecology	33	22	45	44	56	78	76	75
Entomology/parasitology	12	13	11	19	19	21	21	15
Genetics	14	36	56	43	49	56	54	43
Microbiology, immunology, and virology	75	137	137	136	124	118	106	123

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	30	25	34	34	38	25	30	33
Pathology	37	29	26	33	32	31	25	24
Pharmacology	31	27	26	19	27	45	43	41
Physiology	30	40	42	34	37	32	29	31
Zoology	43	16	24	21	24	28	19	19
Other	95	102	93	79	100	127	192	186
Computer sciences	1,588	1,711	2,009	2,129	2,339	2,343	2,339	2,487
Earth, atmospheric, and ocean sciences	334	270	262	257	319	381	365	380
Atmospheric	15	19	17	18	21	28	24	23
Earth	167	152	143	129	175	208	171	185
Ocean	43	26	23	35	32	41	45	56
Other	109	73	79	75	91	104	125	116
Mathematics and statistics	467	379	423	437	537	660	666	718
Mathematics/applied mathematics	428	347	388	387	470	594	576	615
Statistics	39	32	35	50	67	66	90	103
Physical sciences	759	689	717	921	911	965	1,031	996
Astronomy	30	21	21	28	28	28	28	39
Chemistry	368	330	279	321	356	421	462	453
Physics	325	259	329	498	455	450	480	489
Other	36	79	88	74	72	66	61	15
Psychology	976	985	938	800	817	817	1,144	1,538
Clinical	130	181	145	176	175	178	294	419
General	294	257	278	248	221	256	271	302
Nonclinical	552	547	515	376	421	383	579	817
Social sciences	2,060	2,020	2,426	2,600	2,793	2,988	3,443	3,872
Agricultural economics	39	15	29	48	44	36	35	33
Anthropology (cultural and social)	125	155	189	209	175	201	212	209
Economics	286	187	304	313	374	352	336	304
Geography	162	129	124	106	107	126	144	132
History and philosophy of science	10	10	16	20	29	29	49	33
Linguistics	42	43	63	58	76	80	75	104
Political science and public administration	864	806	928	1,025	1,213	1,374	1,753	2,157
Sociology	109	113	161	155	160	148	166	174
Other	423	562	612	666	615	642	673	726
Engineering	3,430	3,070	3,341	3,313	3,642	4,404	4,472	4,815
Aerospace	60	69	77	94	126	178	165	198
Agricultural	19	10	14	12	6	15	8	15
Biomedical	79	52	56	99	109	165	159	188
Chemical	176	170	161	101	127	137	124	149
Civil	447	423	411	432	493	535	538	605
Electrical	1,315	1,190	1,338	1,221	1,273	1,473	1,359	1,479
Engineering science/physics	25	39	84	109	72	43	50	51
Industrial/manufacturing	494	415	461	451	493	650	755	759
Mechanical	532	400	427	447	517	665	689	716
Metallurgical/materials	98	70	72	86	83	75	104	102
Mining	14	4	3	5	1	15	8	20
Nuclear	5	6	2	6	9	15	25	23
Petroleum	1	2	42	40	57	11	9	7
Other	165	220	193	210	276	427	479	503
Temporary residents	71,939	76,963	86,034	93,797	101,244	101,333	97,557	93,747
Science	40,757	42,966	47,324	51,105	54,100	53,490	52,461	51,487
Agricultural sciences	1,808	1,683	1,564	1,576	1,601	1,558	1,604	1,562
Biological sciences	5,886	5,748	5,918	6,054	6,673	6,929	7,271	7,520
Anatomy	97	87	104	102	115	102	94	97
Biochemistry	820	793	869	825	909	983	1,046	1,054
Biology	1,059	1,015	1,027	1,064	1,173	1,178	1,238	1,351
Biometry/epidemiology	344	375	388	391	487	498	514	501
Biophysics	121	111	148	188	214	211	237	239

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	327	331	315	301	315	291	294	336
Cell/molecular biology	471	424	468	520	566	640	710	753
Ecology	100	100	101	110	126	136	142	131
Entomology/parasitology	211	218	195	190	187	181	186	174
Genetics	199	211	196	224	206	241	244	238
Microbiology, immunology, and virology	496	461	466	460	566	509	512	522
Nutrition	365	378	385	396	406	450	414	395
Pathology	155	169	170	156	145	149	155	168
Pharmacology	294	290	306	298	289	332	358	376
Physiology	254	266	257	218	230	257	256	219
Zoology	112	91	92	113	121	91	94	113
Other	461	428	431	498	618	680	777	853
Computer sciences	10,197	12,022	15,588	18,395	19,247	17,511	15,827	15,244
Earth, atmospheric, and ocean sciences	1,736	1,663	1,796	1,801	1,756	1,733	1,712	1,670
Atmospheric	167	169	202	179	189	174	164	169
Earth	950	893	947	970	947	956	950	913
Ocean	351	332	324	308	281	293	279	283
Other	268	269	323	344	339	310	319	305
Mathematics and statistics	3,638	3,866	3,938	4,141	4,517	4,652	4,682	4,718
Mathematics/applied mathematics	3,048	3,165	3,203	3,328	3,628	3,676	3,678	3,616
Statistics	590	701	735	813	889	976	1,004	1,102
Physical sciences	7,818	8,079	8,372	8,726	9,202	9,830	10,037	10,037
Astronomy	164	186	201	209	230	241	273	271
Chemistry	3,902	3,945	3,943	4,167	4,511	4,819	4,873	4,992
Physics	3,712	3,900	4,173	4,290	4,403	4,694	4,841	4,727
Other	40	48	55	60	58	76	50	47
Psychology	798	790	752	777	1,092	1,155	1,249	903
Clinical	113	116	84	94	222	229	103	100
General	309	285	312	327	419	456	727	418
Nonclinical	376	389	356	356	451	470	419	385
Social sciences	8,876	9,115	9,396	9,635	10,012	10,122	10,079	9,833
Agricultural economics	614	603	638	640	630	664	616	571
Anthropology (cultural and social)	352	375	364	348	387	366	370	370
Economics	3,584	3,753	3,857	4,124	4,290	4,184	4,115	3,967
Geography	350	361	384	432	427	447	455	452
History and philosophy of science	44	41	39	45	41	47	44	53
Linguistics	367	362	346	330	328	336	347	312
Political science and public administration	2,128	2,278	2,360	2,320	2,417	2,579	2,610	2,567
Sociology	511	511	532	522	538	552	518	531
Other	926	831	876	874	954	947	1,004	1,010
Engineering	31,182	33,997	38,710	42,692	47,144	47,843	45,096	42,260
Aerospace	1,259	1,364	1,326	1,436	1,470	1,474	1,465	1,435
Agricultural	313	319	300	313	318	366	357	375
Biomedical	525	595	659	761	1,020	1,266	1,384	1,401
Chemical	2,217	2,301	2,509	2,651	2,804	2,757	2,706	2,518
Civil	3,906	4,223	4,777	5,047	5,464	5,586	5,246	4,836
Electrical	11,571	12,561	15,006	16,734	18,767	18,813	17,504	16,507
Engineering science/physics	441	430	530	590	704	780	800	671
Industrial/manufacturing	2,769	3,074	3,728	4,415	4,753	4,463	4,077	3,492
Mechanical	5,041	5,549	6,357	6,842	7,616	7,762	7,067	6,641
Metallurgical/materials	1,557	1,577	1,652	1,785	1,927	1,956	1,927	1,982
Mining	72	97	118	100	95	99	110	109
Nuclear	248	275	274	287	270	286	282	271
Petroleum	408	429	315	338	401	570	550	523
Other	855	1,203	1,159	1,393	1,535	1,665	1,621	1,499

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
S&E	78,332	82,411	86,827	89,331	86,580	89,183
Science	56,141	59,105	62,220	64,902	64,555	66,810
Agricultural sciences	2,335	2,338	2,320	2,424	2,316	2,260
Biological sciences	10,955	11,608	12,127	12,719	12,796	12,896
Anatomy	198	159	193	178	180	213
Biochemistry	929	851	880	958	907	930
Biology	2,282	2,376	2,532	2,610	2,740	2,826
Biometry/epidemiology	837	953	1,001	1,022	986	1,069
Biophysics	128	162	166	223	210	174
Botany	357	315	335	307	336	316
Cell/molecular biology	977	993	1,085	1,125	1,140	1,186
Ecology	280	348	317	345	302	314
Entomology/parasitology	185	202	203	175	211	153
Genetics	380	382	362	373	441	365
Microbiology, immunology, and virology	823	884	914	909	889	868
Nutrition	830	906	890	895	843	863
Pathology	276	320	294	256	277	248
Pharmacology	549	507	554	552	510	466
Physiology	570	615	633	760	731	678
Zoology	230	247	231	258	212	199
Other	1,124	1,388	1,537	1,773	1,881	2,028
Computer sciences	8,431	9,077	9,037	8,134	7,783	8,258
Earth, atmospheric, and ocean sciences	2,649	2,794	3,085	3,104	2,926	2,777
Atmospheric	222	205	213	268	228	228
Earth	1,230	1,383	1,437	1,412	1,336	1,327
Ocean	479	511	533	567	534	463
Other	718	695	902	857	828	759
Mathematics and statistics	3,419	3,686	3,918	4,185	4,252	4,196
Mathematics/applied mathematics	2,757	2,892	3,114	3,266	3,365	3,263
Statistics	662	794	804	919	887	933
Physical sciences	5,829	6,011	6,280	6,841	6,603	6,657
Astronomy	183	193	194	225	210	190
Chemistry	3,482	3,651	3,746	3,983	3,862	3,904
Physics	2,101	2,102	2,231	2,543	2,442	2,458
Other	63	65	109	90	89	105
Psychology	7,545	7,691	8,420	8,858	9,478	10,377
Clinical	1,829	1,731	1,898	1,986	2,251	2,318
General	2,534	2,652	2,657	3,009	2,979	3,416
Nonclinical	3,182	3,308	3,865	3,863	4,248	4,643
Social sciences	14,978	15,900	17,033	18,637	18,401	19,389
Agricultural economics	455	496	575	536	523	557
Anthropology (cultural and social)	1,157	1,119	1,177	1,279	1,187	1,257
Economics	2,508	2,562	2,843	2,921	2,686	2,676
Geography	784	872	812	915	860	898
History and philosophy of science	78	72	97	107	107	138
Linguistics	454	495	466	588	570	633
Political science and public administration	5,142	5,562	6,241	6,950	7,348	7,810
Sociology	1,300	1,431	1,535	1,543	1,359	1,504
Other	3,100	3,291	3,287	3,798	3,761	3,916
Engineering	22,191	23,306	24,607	24,429	22,025	22,373
Aerospace	775	767	712	845	834	804
Agricultural	188	192	201	197	177	190
Biomedical	915	884	1,125	1,327	1,274	1,267
Chemical	1,595	1,541	1,616	1,600	1,392	1,293
Civil	3,840	3,820	4,107	4,363	4,175	4,057
Electrical	7,195	7,882	8,221	7,834	6,633	6,987
Engineering science/physics	299	339	404	392	361	317
Industrial/manufacturing	2,005	2,216	2,238	2,029	1,724	1,674

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Mechanical	3,269	3,583	3,709	3,476	3,129	3,225
Metallurgical/materials	1,005	975	1,044	958	926	992
Mining	48	40	41	73	64	58
Nuclear	163	164	149	177	192	193
Petroleum	149	153	198	166	151	161
Other	745	750	842	992	993	1,155
U.S. citizens and permanent residents	46,316	48,232	54,653	59,669	58,966	60,469
Science	37,698	39,543	43,880	47,390	47,768	49,547
Agricultural sciences	1,916	1,845	1,856	1,971	1,870	1,828
Biological sciences	8,355	8,772	9,263	9,763	9,828	9,932
Anatomy	162	134	168	138	156	188
Biochemistry	577	530	561	627	564	601
Biology	1,837	1,883	2,052	2,139	2,263	2,256
Biometry/epidemiology	583	693	648	706	709	779
Biophysics	88	104	117	154	146	128
Botany	244	224	226	231	218	208
Cell/molecular biology	748	715	814	822	827	880
Ecology	241	303	280	291	261	282
Entomology/parasitology	146	144	163	142	163	118
Genetics	307	293	298	283	341	284
Microbiology, immunology, and virology	640	660	686	718	671	681
Nutrition	603	668	673	678	616	656
Pathology	215	266	248	194	227	198
Pharmacology	382	350	417	415	385	323
Physiology	475	519	552	640	645	596
Zoology	195	216	194	221	182	161
Other	912	1,070	1,166	1,364	1,454	1,593
Computer sciences	2,414	2,621	3,534	3,891	3,651	3,664
Earth, atmospheric, and ocean sciences	2,082	2,210	2,550	2,573	2,469	2,288
Atmospheric	147	140	159	220	186	173
Earth	986	1,091	1,179	1,129	1,102	1,088
Ocean	374	426	447	485	476	376
Other	575	553	765	739	705	651
Mathematics and statistics	1,849	2,030	2,311	2,527	2,637	2,571
Mathematics/applied mathematics	1,532	1,717	1,952	2,106	2,227	2,171
Statistics	317	313	359	421	410	400
Physical sciences	3,323	3,325	3,775	4,095	4,039	4,154
Astronomy	123	135	137	150	145	144
Chemistry	2,151	2,125	2,292	2,442	2,400	2,468
Physics	1,009	1,025	1,270	1,442	1,420	1,448
Other	40	40	76	61	74	94
Psychology	7,060	7,167	7,902	8,285	8,960	9,838
Clinical	1,751	1,634	1,806	1,898	2,170	2,231
General	2,342	2,455	2,466	2,794	2,777	3,221
Nonclinical	2,967	3,078	3,630	3,593	4,013	4,386
Social sciences	10,699	11,573	12,689	14,285	14,314	15,272
Agricultural economics	231	250	353	321	319	343
Anthropology (cultural and social)	996	985	1,028	1,142	1,068	1,145
Economics	976	1,025	1,206	1,373	1,270	1,236
Geography	626	703	675	741	731	759
History and philosophy of science	65	62	90	95	97	115
Linguistics	257	294	305	405	381	440
Political science and public administration	3,870	4,291	4,949	5,561	6,002	6,489
Sociology	1,062	1,163	1,302	1,340	1,204	1,320
Other	2,616	2,800	2,781	3,307	3,242	3,425
Engineering	8,618	8,689	10,773	12,279	11,198	10,922
Aerospace	374	348	396	536	537	508
Agricultural	111	106	118	118	96	94

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Biomedical	593	554	710	879	841	821
Chemical	659	616	765	856	733	629
Civil	2,009	1,989	2,250	2,595	2,591	2,492
Electrical	1,901	1,985	2,679	3,127	2,458	2,430
Engineering science/physics	136	164	228	231	225	177
Industrial/manufacturing	596	600	789	840	759	697
Mechanical	1,238	1,384	1,692	1,847	1,690	1,673
Metallurgical/materials	413	410	502	479	454	482
Mining	28	27	27	38	37	35
Nuclear	78	76	99	114	138	143
Petroleum	56	52	47	25	46	26
Other	426	378	471	594	593	715
White	33,868	34,664	38,769	41,619	40,628	41,096
Science	27,874	28,737	31,480	33,551	33,019	33,866
Agricultural sciences	1,670	1,560	1,571	1,638	1,528	1,457
Biological sciences	6,222	6,368	6,789	6,928	6,811	6,735
Anatomy	120	117	121	96	107	125
Biochemistry	415	380	423	417	401	381
Biology	1,430	1,396	1,593	1,580	1,607	1,582
Biometry/epidemiology	364	448	417	460	418	473
Biophysics	59	69	75	118	104	85
Botany	214	195	190	186	168	176
Cell/molecular biology	536	473	551	546	538	578
Ecology	210	254	234	238	217	236
Entomology/parasitology	126	118	150	122	140	100
Genetics	233	217	228	205	261	214
Microbiology, immunology, and virology	461	478	481	506	452	447
Nutrition	499	536	544	529	456	510
Pathology	161	195	182	130	176	140
Pharmacology	281	230	280	261	245	217
Physiology	283	334	340	416	383	325
Zoology	173	195	171	192	160	125
Other	657	733	809	926	978	1,021
Computer sciences	1,481	1,578	2,046	2,399	2,163	2,241
Earth, atmospheric, and ocean sciences	1,836	1,935	2,164	2,175	2,069	1,932
Atmospheric	124	125	142	190	155	141
Earth	882	979	1,004	984	955	955
Ocean	339	360	385	410	407	316
Other	491	471	633	591	552	520
Mathematics and statistics	1,384	1,569	1,722	1,848	1,912	1,865
Mathematics/applied mathematics	1,162	1,321	1,465	1,546	1,633	1,591
Statistics	222	248	257	302	279	274
Physical sciences	2,587	2,557	2,935	3,113	3,034	3,175
Astronomy	98	115	113	118	126	115
Chemistry	1,666	1,621	1,781	1,817	1,762	1,878
Physics	788	790	985	1,128	1,092	1,107
Other	35	31	56	50	54	75
Psychology	5,274	5,251	5,793	5,971	6,088	6,515
Clinical	1,318	1,171	1,309	1,352	1,482	1,461
General	1,728	1,822	1,863	2,047	1,991	2,250
Nonclinical	2,228	2,258	2,621	2,572	2,615	2,804
Social sciences	7,420	7,919	8,460	9,479	9,414	9,946
Agricultural economics	197	213	300	262	262	268
Anthropology (cultural and social)	778	768	776	859	787	845
Economics	687	700	770	894	870	889
Geography	546	605	590	626	604	612
History and philosophy of science	54	53	68	69	73	92



TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Linguistics	195	220	231	290	274	294
Political science and public administration	2,466	2,799	3,068	3,476	3,731	3,964
Sociology	748	804	876	905	830	897
Other	1,749	1,757	1,781	2,098	1,983	2,085
Engineering	5,994	5,927	7,289	8,068	7,609	7,230
Aerospace	285	295	308	394	408	354
Agricultural	89	85	100	92	78	75
Biomedical	411	354	455	538	488	501
Chemical	455	434	510	576	556	432
Civil	1,542	1,470	1,701	1,970	1,962	1,863
Electrical	1,121	1,144	1,480	1,617	1,383	1,318
Engineering science/physics	96	112	171	178	166	122
Industrial/manufacturing	355	392	514	512	452	404
Mechanical	950	983	1,244	1,322	1,242	1,222
Metallurgical/materials	323	321	383	338	349	359
Mining	25	22	24	35	29	27
Nuclear	63	65	85	95	110	116
Petroleum	13	6	10	17	27	13
Other	266	244	304	384	359	424
Asian/Pacific Islander	4,061	4,300	5,376	5,808	5,628	5,721
Science	2,906	3,042	3,596	3,855	4,018	4,163
Agricultural sciences	39	51	50	55	59	64
Biological sciences	883	927	990	1,126	1,235	1,209
Anatomy	18	10	16	19	17	22
Biochemistry	78	69	53	103	80	89
Biology	128	105	125	154	183	181
Biometry/epidemiology	83	111	100	110	126	122
Biophysics	22	23	22	18	23	20
Botany	14	13	12	22	17	11
Cell/molecular biology	103	95	116	114	135	140
Ecology	7	8	7	9	10	11
Entomology/parasitology	5	8	2	7	8	2
Genetics	31	27	34	39	28	21
Microbiology, immunology, and virology	56	71	80	77	102	76
Nutrition	40	55	48	57	50	58
Pathology	23	32	35	27	26	21
Pharmacology	52	54	50	57	53	42
Physiology	125	133	156	165	194	200
Zoology	4	4	5	8	10	10
Other	94	109	129	140	173	183
Computer sciences	551	553	830	736	656	637
Earth, atmospheric, and ocean sciences	58	71	79	66	85	77
Atmospheric	4	6	5	16	7	9
Earth	26	29	36	15	30	24
Ocean	9	14	14	8	14	11
Other	19	22	24	27	34	33
Mathematics and statistics	176	181	234	269	288	278
Mathematics/applied mathematics	132	152	180	213	220	209
Statistics	44	29	54	56	68	69
Physical sciences	275	241	237	297	318	340
Astronomy	7	6	9	11	6	8
Chemistry	189	153	151	201	223	223
Physics	78	78	68	79	82	103
Other	1	4	9	6	7	6

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Psychology	341	330	357	394	466	491
Clinical	97	83	88	97	111	121
General	109	118	114	155	164	177
Nonclinical	135	129	155	142	191	193
Social sciences	583	688	819	912	911	1,067
Agricultural economics	3	7	10	11	13	11
Anthropology (cultural and social)	36	36	42	44	31	53
Economics	85	110	142	162	149	142
Geography	16	27	18	29	27	31
History and philosophy of science	3	1	5	5	5	5
Linguistics	17	28	26	35	28	46
Political science and public administration	253	283	340	349	387	498
Sociology	47	59	74	78	58	78
Other	123	137	162	199	213	203
Engineering	1,155	1,258	1,780	1,953	1,610	1,558
Aerospace	42	23	41	50	46	61
Agricultural	5	11	11	13	14	11
Biomedical	103	111	146	154	195	175
Chemical	101	94	130	131	79	87
Civil	153	180	211	218	225	203
Electrical	422	444	743	864	582	582
Engineering science/physics	21	33	39	31	38	27
Industrial/manufacturing	74	75	119	132	86	100
Mechanical	112	177	195	208	171	171
Metallurgical/materials	46	36	69	73	55	59
Mining	1	5	1	2	2	2
Nuclear	8	3	3	7	9	7
Petroleum	11	12	8	2	10	2
Other	56	54	64	68	98	71
Black	2,908	3,020	3,341	3,584	3,869	3,988
Science	2,446	2,617	2,858	3,080	3,353	3,464
Agricultural sciences	51	65	64	105	74	104
Biological sciences	386	472	457	503	619	616
Anatomy	9	1	7	3	7	11
Biochemistry	27	20	19	33	23	34
Biology	88	137	106	114	166	164
Biometry/epidemiology	33	45	52	41	58	63
Biophysics	2	3	4	4	3	2
Botany	6	3	6	1	1	2
Cell/molecular biology	26	34	31	31	44	35
Ecology	2	3	3	8	5	1
Entomology/parasitology	3	5	1	2	2	2
Genetics	14	13	9	13	16	13
Microbiology, immunology, and virology	35	35	36	40	41	45
Nutrition	23	29	28	27	46	34
Pathology	9	12	9	13	10	6
Pharmacology	19	32	33	34	47	28
Physiology	23	21	16	19	22	21
Zoology	4	2	5	0	1	1
Other	63	77	92	120	127	154
Computer sciences	130	142	191	207	226	207
Earth, atmospheric, and ocean sciences	31	38	49	51	38	48
Atmospheric	2	1	5	2	7	8
Earth	7	10	16	15	8	9

*Women, Minorities, and Persons with Disabilities in Science and Engineering*

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Ocean	3	10	10	8	5	13
Other	19	17	18	26	18	18
Mathematics and statistics	105	87	118	130	142	134
Mathematics/applied mathematics	93	77	102	105	118	120
Statistics	12	10	16	25	24	14
Physical sciences	146	161	168	186	194	168
Astronomy	3	1	2	2	3	1
Chemistry	110	121	114	131	136	109
Physics	32	38	50	52	50	55
Other	1	1	2	1	5	3
Psychology	530	530	562	581	656	756
Clinical	115	99	116	120	131	129
General	201	217	184	222	223	292
Nonclinical	214	214	262	239	302	335
Social sciences	1,067	1,122	1,249	1,317	1,404	1,431
Agricultural economics	18	15	26	18	14	25
Anthropology (cultural and social)	40	28	34	42	43	43
Economics	61	38	58	75	78	62
Geography	13	20	18	18	20	21
History and philosophy of science	1	0	3	3	3	3
Linguistics	5	3	3	9	13	16
Political science and public administration	542	529	591	596	685	702
Sociology	95	147	161	176	143	152
Other	292	342	355	380	405	407
Engineering	462	403	483	504	516	524
Aerospace	14	4	8	9	18	12
Agricultural	5	5	5	5	2	1
Biomedical	26	29	32	35	50	38
Chemical	36	31	36	37	30	28
Civil	79	72	59	47	84	74
Electrical	108	108	130	136	121	124
Engineering science/physics	2	2	7	4	3	7
Industrial/manufacturing	72	50	79	76	73	70
Mechanical	58	60	66	70	58	69
Metallurgical/materials	23	20	23	22	8	15
Mining	0	0	0	0	1	1
Nuclear	4	0	1	3	4	4
Petroleum	0	0	1	2	6	9
Other	35	22	36	58	58	72
Hispanic	2,331	2,626	3,020	3,313	3,425	3,816
Science	1,872	2,146	2,468	2,634	2,776	3,167
Agricultural sciences	75	65	69	78	93	86
Biological sciences	385	487	524	537	545	631
Anatomy	8	3	8	10	13	11
Biochemistry	28	35	39	38	28	42
Biology	82	126	110	121	119	152
Biometry/epidemiology	38	32	48	56	57	54
Biophysics	1	7	3	5	9	6
Botany	2	4	4	6	14	6
Cell/molecular biology	40	46	61	42	51	57
Ecology	6	11	11	5	10	13
Entomology/parasitology	8	7	3	5	6	9
Genetics	7	16	12	4	13	10
Microbiology, immunology, and virology	36	47	53	61	44	58

*Women, Minorities, and Persons with Disabilities in Science and Engineering*

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Nutrition	18	19	24	38	33	19
Pathology	7	16	8	13	7	14
Pharmacology	20	25	33	22	17	21
Physiology	19	12	22	15	29	27
Zoology	4	6	4	5	4	11
Other	61	75	81	91	91	121
Computer sciences	56	70	102	121	140	150
Earth, atmospheric, and ocean sciences	65	67	90	87	92	89
Atmospheric	3	2	2	3	8	10
Earth	29	24	43	29	36	31
Ocean	14	26	25	33	27	19
Other	19	15	20	22	21	29
Mathematics and statistics	73	87	88	97	96	115
Mathematics/applied mathematics	60	77	77	84	80	101
Statistics	13	10	11	13	16	14
Physical sciences	136	153	193	217	209	208
Astronomy	4	3	4	6	5	7
Chemistry	96	117	129	147	126	130
Physics	34	31	55	62	76	67
Other	2	2	5	2	2	4
Psychology	403	416	556	585	637	748
Clinical	114	124	149	166	194	195
General	142	111	135	162	159	233
Nonclinical	147	181	272	257	284	320
Social sciences	679	801	846	912	964	1,140
Agricultural economics	5	9	8	12	12	16
Anthropology (cultural and social)	52	65	77	71	80	77
Economics	36	63	62	73	60	51
Geography	18	11	16	25	22	38
History and philosophy of science	0	3	5	4	2	5
Linguistics	17	17	20	18	27	30
Political science and public administration	277	298	335	348	437	507
Sociology	87	83	99	102	81	89
Other	187	252	224	259	243	327
Engineering	459	480	552	679	649	649
Aerospace	11	7	14	25	27	28
Agricultural	7	3	0	2	0	5
Biomedical	21	18	23	37	37	38
Chemical	39	31	52	71	44	44
Civil	139	155	139	175	148	157
Electrical	87	93	144	157	162	157
Engineering science/physics	4	4	4	9	5	7
Industrial/manufacturing	52	34	41	43	73	51
Mechanical	60	84	86	108	96	102
Metallurgical/materials	9	14	13	20	18	14
Mining	1	0	0	0	2	2
Nuclear	3	7	5	5	4	8
Petroleum	16	18	10	2	2	1
Other	10	12	21	25	31	35
American Indian/Alaska Native	248	296	272	318	343	336
Science	218	258	232	267	300	297
Agricultural sciences	11	11	16	15	20	14
Biological sciences	33	42	29	56	45	44
Anatomy	1	1	0	3	0	0

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Biochemistry	2	1	1	5	3	4
Biology	9	9	4	9	10	12
Biometry/epidemiology	4	5	3	5	2	4
Biophysics	0	0	0	0	3	0
Botany	0	1	0	1	1	0
Cell/molecular biology	2	4	3	2	4	6
Ecology	1	3	2	2	2	1
Entomology/parasitology	1	0	0	1	0	0
Genetics	2	2	2	1	3	1
Microbiology, immunology, and virology	4	2	4	3	3	2
Nutrition	0	2	2	3	2	3
Pathology	0	0	0	2	0	2
Pharmacology	2	2	3	7	5	1
Physiology	1	4	3	3	1	1
Zoology	1	2	0	3	1	2
Other	3	4	2	6	5	5
Computer sciences	3	11	11	13	13	11
Earth, atmospheric, and ocean sciences	13	17	17	7	19	13
Atmospheric	1	2	1	1	2	0
Earth	7	8	5	3	6	10
Ocean	1	2	3	1	4	1
Other	4	5	8	2	7	2
Mathematics and statistics	5	5	3	5	9	6
Mathematics/applied mathematics	4	4	3	5	9	6
Statistics	1	1	0	0	0	0
Physical sciences	12	15	20	14	16	16
Astronomy	1	0	2	1	0	1
Chemistry	9	12	10	11	12	10
Physics	2	3	8	1	3	4
Other	0	0	0	1	1	1
Psychology	40	50	49	57	61	44
Clinical	9	14	17	17	19	12
General	14	13	17	19	18	12
Nonclinical	17	23	15	21	24	20
Social sciences	101	107	87	100	117	149
Agricultural economics	1	0	2	1	5	6
Anthropology (cultural and social)	16	16	6	20	17	29
Economics	4	7	6	4	1	5
Geography	2	4	4	2	4	9
History and philosophy of science	0	0	0	1	0	1
Linguistics	0	5	3	3	6	6
Political science and public administration	27	31	21	32	41	43
Sociology	14	12	7	8	7	9
Other	37	32	38	29	36	41
Engineering	30	38	40	51	43	39
Aerospace	3	1	1	7	1	3
Agricultural	1	0	0	0	0	0
Biomedical	0	1	2	1	5	2
Chemical	1	4	9	2	3	3
Civil	12	7	11	7	11	9
Electrical	4	5	5	13	6	6
Engineering science/physics	2	2	2	5	1	2
Industrial/manufacturing	3	8	0	4	5	5
Mechanical	4	6	6	8	8	4

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Metallurgical/materials	0	1	0	2	0	1
Mining	0	0	2	0	0	0
Nuclear	0	0	0	0	1	1
Petroleum	0	0	0	0	0	0
Other	0	3	2	2	2	3
Other race/ethnicity	2,900	3,326	3,875	5,027	5,073	5,512
Science	2,382	2,743	3,246	4,003	4,302	4,590
Agricultural sciences	70	93	86	80	96	103
Biological sciences	446	476	474	613	573	697
Anatomy	6	2	16	7	12	19
Biochemistry	27	25	26	31	29	51
Biology	100	110	114	161	178	165
Biometry/epidemiology	61	52	28	34	48	63
Biophysics	4	2	13	9	4	15
Botany	8	8	14	15	17	13
Cell/molecular biology	41	63	52	87	55	64
Ecology	15	24	23	29	17	20
Entomology/parasitology	3	6	7	5	7	5
Genetics	20	18	13	21	20	25
Microbiology, immunology, and virology	48	27	32	31	29	53
Nutrition	23	27	27	24	29	32
Pathology	15	11	14	9	8	15
Pharmacology	8	7	18	34	18	14
Physiology	24	15	15	22	16	22
Zoology	9	7	9	13	6	12
Other	34	72	53	81	80	109
Computer sciences	193	267	354	415	453	418
Earth, atmospheric, and ocean sciences	79	82	151	187	166	129
Atmospheric	13	4	4	8	7	5
Earth	35	41	75	83	67	59
Ocean	8	14	10	25	19	16
Other	23	23	62	71	73	49
Mathematics and statistics	106	101	146	178	190	173
Mathematics/applied mathematics	81	86	125	153	167	144
Statistics	25	15	21	25	23	29
Physical sciences	167	198	222	268	268	247
Astronomy	10	10	7	12	5	12
Chemistry	81	101	107	135	141	118
Physics	75	85	104	120	117	112
Other	1	2	4	1	5	5
Psychology	472	590	585	697	1,052	1,284
Clinical	98	143	127	146	233	313
General	148	174	153	189	222	257
Nonclinical	226	273	305	362	597	714
Social sciences	849	936	1,228	1,565	1,504	1,539
Agricultural economics	7	6	7	17	13	17
Anthropology (cultural and social)	74	72	93	106	110	98
Economics	103	107	168	165	112	87
Geography	31	36	29	41	54	48
History and philosophy of science	7	5	9	13	14	9
Linguistics	23	21	22	50	33	48
Political science and public administration	305	351	594	760	721	775
Sociology	71	58	85	71	85	95
Other	228	280	221	342	362	362

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Engineering	518	583	629	1,024	771	922
Aerospace	19	18	24	51	37	50
Agricultural	4	2	2	6	2	2
Biomedical	32	41	52	114	66	67
Chemical	27	22	28	39	21	35
Civil	84	105	129	178	161	186
Electrical	159	191	177	340	204	243
Engineering science/physics	11	11	5	4	12	12
Industrial/manufacturing	40	41	36	73	70	67
Mechanical	54	74	95	131	115	105
Metallurgical/materials	12	18	14	24	24	34
Mining	1	0	0	1	3	3
Nuclear	0	1	5	4	10	7
Petroleum	16	16	18	2	1	1
Other	59	43	44	57	45	110
Temporary residents	32,016	34,179	32,174	29,662	27,614	28,714
Science	18,443	19,562	18,340	17,512	16,787	17,263
Agricultural sciences	419	493	464	453	446	432
Biological sciences	2,600	2,836	2,864	2,956	2,968	2,964
Anatomy	36	25	25	40	24	25
Biochemistry	352	321	319	331	343	329
Biology	445	493	480	471	477	570
Biometry/epidemiology	254	260	353	316	277	290
Biophysics	40	58	49	69	64	46
Botany	113	91	109	76	118	108
Cell/molecular biology	229	278	271	303	313	306
Ecology	39	45	37	54	41	32
Entomology/parasitology	39	58	40	33	48	35
Genetics	73	89	64	90	100	81
Microbiology, immunology, and virology	183	224	228	191	218	187
Nutrition	227	238	217	217	227	207
Pathology	61	54	46	62	50	50
Pharmacology	167	157	137	137	125	143
Physiology	95	96	81	120	86	82
Zoology	35	31	37	37	30	38
Other	212	318	371	409	427	435
Computer sciences	6,017	6,456	5,503	4,243	4,132	4,594
Earth, atmospheric, and ocean sciences	567	584	535	531	457	489
Atmospheric	75	65	54	48	42	55
Earth	244	292	258	283	234	239
Ocean	105	85	86	82	58	87
Other	143	142	137	118	123	108
Mathematics and statistics	1,570	1,656	1,607	1,658	1,615	1,625
Mathematics/applied mathematics	1,225	1,175	1,162	1,160	1,138	1,092
Statistics	345	481	445	498	477	533
Physical sciences	2,506	2,686	2,505	2,746	2,564	2,503
Astronomy	60	58	57	75	65	46
Chemistry	1,331	1,526	1,454	1,541	1,462	1,436
Physics	1,092	1,077	961	1,101	1,022	1,010
Other	23	25	33	29	15	11
Psychology	485	524	518	573	518	539
Clinical	78	97	92	88	81	87
General	192	197	191	215	202	195
Nonclinical	215	230	235	270	235	257

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Social sciences	4,279	4,327	4,344	4,352	4,087	4,117
Agricultural economics	224	246	222	215	204	214
Anthropology (cultural and social)	161	134	149	137	119	112
Economics	1,532	1,537	1,637	1,548	1,416	1,440
Geography	158	169	137	174	129	139
History and philosophy of science	13	10	7	12	10	23
Linguistics	197	201	161	183	189	193
Political science and public administration	1,272	1,271	1,292	1,389	1,346	1,321
Sociology	238	268	233	203	155	184
Other	484	491	506	491	519	491
Engineering	13,573	14,617	13,834	12,150	10,827	11,451
Aerospace	401	419	316	309	297	296
Agricultural	77	86	83	79	81	96
Biomedical	322	330	415	448	433	446
Chemical	936	925	851	744	659	664
Civil	1,831	1,831	1,857	1,768	1,584	1,565
Electrical	5,294	5,897	5,542	4,707	4,175	4,557
Engineering science/physics	163	175	176	161	136	140
Industrial/manufacturing	1,409	1,616	1,449	1,189	965	977
Mechanical	2,031	2,199	2,017	1,629	1,439	1,552
Metallurgical/materials	592	565	542	479	472	510
Mining	20	13	14	35	27	23
Nuclear	85	88	50	63	54	50
Petroleum	93	101	151	141	105	135
Other	319	372	371	398	400	440

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2000–2005.



Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2005

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
S&E	25,346	15,693	9,653	4,217	2,713	1,504	16.6	17.3	15.6
Science	21,876	14,593	7,283	3,823	2,593	1,230	17.5	17.8	16.9
Agricultural sciences	417	245	172	185	109	76	44.4	44.5	44.2
Biological sciences	2,980	2,058	922	539	366	173	18.1	17.8	18.8
Anatomy	48	29	19	10	6	4	20.8	20.7	21.1
Biochemistry	169	101	68	22	15	7	13.0	14.9	10.3
Biology	791	521	270	255	181	74	32.2	34.7	27.4
Biometry and epidemiology	282	209	73	0	0	0	0.0	0.0	0.0
Biophysics	24	10	14	0	0	0	0.0	0.0	0.0
Botany	17	13	4	0	0	0	0.0	0.0	0.0
Cell and molecular biology	176	115	61	0	0	0	0.0	0.0	0.0
Ecology	28	20	8	0	0	0	0.0	0.0	0.0
Entomology and parasitology	14	10	4	0	0	0	0.0	0.0	0.0
Genetics	70	55	15	22	16	6	31.4	29.1	40.0
Microbiology, immunology, and virology	255	171	84	42	28	14	16.5	16.4	16.7
Nutrition	270	218	52	80	60	20	29.6	27.5	38.5
Pathology	67	53	14	0	0	0	0.0	0.0	0.0
Pharmacology	184	119	65	37	19	18	20.1	16.0	27.7
Physiology	97	65	32	20	11	9	20.6	16.9	28.1
Zoology	12	6	6	0	0	0	0.0	0.0	0.0
Other	476	343	133	51	30	21	10.7	8.7	15.8
Computer sciences	1,761	712	1,049	193	82	111	11.0	11.5	10.6
Earth, atmospheric, and ocean sciences	262	152	110	57	30	27	21.8	19.7	24.5
Atmospheric	30	13	17	14	6	8	46.7	46.2	47.1
Earth	82	43	39	0	0	0	0.0	0.0	0.0
Ocean	37	27	10	0	0	0	0.0	0.0	0.0
Other	113	69	44	43	24	19	38.1	34.8	43.2
Mathematics and statistics	721	350	371	125	65	60	17.3	18.6	16.2
Mathematics/applied mathematics	617	300	317	125	65	60	20.3	21.7	18.9
Statistics	104	50	54	0	0	0	0.0	0.0	0.0
Physical sciences	1,008	482	526	226	110	116	22.4	22.8	22.1
Astronomy	10	5	5	0	0	0	0.0	0.0	0.0
Chemistry	694	396	298	123	79	44	17.7	19.9	14.8
Physics	272	67	205	103	31	72	37.9	46.3	35.1
Other	32	14	18	0	0	0	0.0	0.0	0.0
Psychology	5,251	4,298	953	912	770	142	17.4	17.9	14.9
Clinical	874	716	158	0	0	0	0.0	0.0	0.0
General	1,682	1,334	348	434	367	67	25.8	27.5	19.3
Nonclinical	2,695	2,248	447	478	403	75	17.7	17.9	16.8
Social sciences	9,476	6,296	3,180	1,586	1,061	525	16.7	16.9	16.5
Agricultural economics	65	38	27	14	8	6	21.5	21.1	22.2
Anthropology (cultural and social)	277	225	52	0	0	0	0.0	0.0	0.0
Economics	319	141	178	15	7	8	4.7	5.0	4.5
Geography	160	83	77	0	0	0	0.0	0.0	0.0
History and philosophy of science	42	20	22	1	1	0	2.4	5.0	0.0
Linguistics	64	43	21	0	0	0	0.0	0.0	0.0
Political science and public administration	5,000	3,323	1,677	846	562	284	16.9	16.9	16.9
Sociology	1,086	775	311	178	130	48	16.4	16.8	15.4
Other	2,463	1,648	815	532	353	179	21.6	21.4	22.0
Engineering	3,470	1,100	2,370	394	120	274	11.4	10.9	11.6
Aerospace	73	15	58	0	0	0	0.0	0.0	0.0
Agricultural	25	12	13	0	0	0	0.0	0.0	0.0
Biomedical	192	103	89	0	0	0	0.0	0.0	0.0
Chemical	146	60	86	5	1	4	3.4	1.7	4.7
Civil	456	161	295	57	28	29	12.5	17.4	9.8
Electrical	843	189	654	59	14	45	7.0	7.4	6.9
Engineering sciences/physics	36	10	26	0	0	0	0.0	0.0	0.0

*Women, Minorities, and Persons with Disabilities in Science and Engineering*

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2005

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
Industrial/manufacturing	764	282	482	53	22	31	6.9	7.8	6.4
Mechanical	411	90	321	45	3	42	10.9	3.3	13.1
Metallurgical and materials	102	49	53	9	3	6	8.8	6.1	11.3
Mining	3	0	3	0	0	0	0.0	0.0	0.0
Nuclear	21	13	8	0	0	0	0.0	0.0	0.0
Petroleum	31	4	27	0	0	0	0.0	0.0	0.0
Other	367	112	255	166	49	117	45.2	43.8	45.9

HBCUs = historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE D-7. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2003

Field	All institutions			HSIs			Hispanic students in HSIs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
S&E	21,264	11,070	10,194	5,400	2,899	2,501	25.4	26.2	24.5
Science	17,288	10,014	7,274	4,409	2,625	1,784	25.5	26.2	24.5
Agricultural sciences	496	240	256	200	102	98	40.3	42.5	38.3
Biological sciences	2,849	1,622	1,227	734	449	285	25.8	27.7	23.2
Anatomy	42	16	26	6	2	4	14.3	12.5	15.4
Biochemistry	229	110	119	34	15	19	14.8	13.6	16.0
Biology	806	454	352	427	248	179	53.0	54.6	50.9
Biometry and epidemiology	196	118	78	73	52	21	37.2	44.1	26.9
Biophysics	28	6	22	0	0	0	0.0	0.0	0.0
Botany	38	18	20	0	0	0	0.0	0.0	0.0
Cell and molecular biology	225	129	96	15	8	7	6.7	6.2	7.3
Ecology	61	37	24	0	0	0	0.0	0.0	0.0
Entomology and parasitology	41	25	16	0	0	0	0.0	0.0	0.0
Genetics	61	37	24	0	0	0	0.0	0.0	0.0
Microbiology, immunology, and virology	286	163	123	35	24	11	12.2	14.7	8.9
Nutrition	201	164	37	61	50	11	30.3	30.5	29.7
Pathology	63	33	30	6	5	1	9.5	15.2	3.3
Pharmacology	134	79	55	17	12	5	12.7	15.2	9.1
Physiology	81	36	45	15	9	6	18.5	25.0	13.3
Zoology	32	10	22	0	0	0	0.0	0.0	0.0
Other	325	187	138	45	24	21	13.8	12.8	15.2
Computer sciences	1,099	285	814	149	38	111	13.6	13.3	13.6
Earth, atmospheric, and ocean sciences	484	261	223	164	81	83	33.9	31.0	37.2
Atmospheric	21	8	13	0	0	0	0.0	0.0	0.0
Earth	187	100	87	43	20	23	23.0	20.0	26.4
Ocean	158	86	72	90	46	44	57.0	53.5	61.1
Other	118	67	51	31	15	16	26.3	22.4	31.4
Mathematics and statistics	604	223	381	197	74	123	32.6	33.2	32.3
Mathematics/applied mathematics	538	196	342	188	71	117	34.9	36.2	34.2
Statistics	66	27	39	9	3	6	13.6	11.1	15.4
Physical sciences	1,097	417	680	324	151	173	29.5	36.2	25.4
Astronomy	25	11	14	1	0	1	4.0	0.0	7.1
Chemistry	750	339	411	233	131	102	31.1	38.6	24.8
Physics	300	61	239	84	20	64	28.0	32.8	26.8
Other	22	6	16	6	0	6	27.3	0.0	37.5
Psychology	4,682	3,551	1,131	863	647	216	18.4	18.2	19.1
Clinical	1,631	1,252	379	160	116	44	9.8	9.3	11.6
General	985	716	269	221	160	61	22.4	22.3	22.7
Nonclinical	2,066	1,583	483	482	371	111	23.3	23.4	23.0
Social sciences	5,977	3,415	2,562	1,778	1,083	695	29.7	31.7	27.1
Agricultural economics	42	18	24	9	5	4	21.4	27.8	16.7
Anthropology (cultural and social)	435	260	175	49	29	20	11.3	11.2	11.4
Economics	369	134	235	95	34	61	25.7	25.4	26.0
Geography	150	64	86	21	8	13	14.0	12.5	15.1
History and philosophy of science	38	16	22	29	12	17	76.3	75.0	77.3
Linguistics	136	93	43	48	34	14	35.3	36.6	32.6
Political science and public administration	2,746	1,581	1,165	951	605	346	34.6	38.3	29.7
Sociology	664	407	257	159	101	58	23.9	24.8	22.6
Other	1,397	842	555	417	255	162	29.8	30.3	29.2
Engineering	3,976	1,056	2,920	991	274	717	24.9	25.9	24.6
Aerospace	119	26	93	0	0	0	0.0	0.0	0.0
Agricultural	14	8	6	0	0	0	0.0	0.0	0.0
Biomedical	155	57	98	22	5	17	14.2	8.8	17.3
Chemical	249	106	143	63	29	34	25.3	27.4	23.8
Civil	845	282	563	294	86	208	34.8	30.5	36.9
Electrical	1,093	204	889	310	74	236	28.4	36.3	26.5
Engineering sciences/physics	49	5	44	0	0	0	0.0	0.0	0.0

TABLE D-7. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2003

Field	All institutions			HSIs			Hispanic students in HSIs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
Industrial/manufacturing	561	178	383	144	56	88	25.7	31.5	23.0
Mechanical	537	96	441	125	13	112	23.3	13.5	25.4
Metallurgical and materials	97	37	60	5	2	3	5.2	5.4	5.0
Mining	3	0	3	0	0	0	0.0	0.0	0.0
Nuclear	31	7	24	6	1	5	19.4	14.3	20.8
Petroleum	13	6	7	0	0	0	0.0	0.0	0.0
Other	210	44	166	22	8	14	10.5	18.2	8.4

HSIs = Hispanic-serving institutions

NOTE: Data in this table do not match data for 2003 in other tables in this section because schools revised data for previous years. Data for later years are not available.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2003.

TABLE D-8. Disability status of S&E graduate students, by sex, age, race/ethnicity, enrollment, and citizenship status: 2004

(Percent)

Sex, age, race/ethnicity, and enrollment and citizenship status	All students	No disability	With disability
All S&E graduate students	100.0	93.3	6.7
Female	44.3	43.5	57.2
Male	55.7	56.6	42.8
Age (years)			
15-23	15.1	15.6	7.5
24-29	44.8	45.0	41.4
39 and older	40.1	39.4	51.1
Race/ethnicity			
White	59.7	59.0	70.5
Asian	22.4	23.3	9.4
Black	7.1	7.2	5.5
Hispanic	6.3	6.2	8.5
American Indian/Alaska Native	0.6	0.6	0.0
Native Hawaiian/Pacific Islander	0.7	0.8	0.0
Other	1.4	1.5	0.6
More than one race	1.7	1.5	5.4
Enrollment status			
Mostly full time	70.0	70.4	64.9
Mostly part time	25.9	25.4	32.3
Mix of full and part time	4.1	4.2	2.8
Citizenship status			
U.S. citizen	73.0	72.0	88.1
Resident alien	5.8	5.8	5.8
Foreign/international student	21.2	22.2	6.1

NOTES: Enrollment status was determined by graduate student responses to the question, *Since you started working on your degree, have you been enrolled mainly as a full-time student or part-time student?* For disability status, those who reported any type of disability at all related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as "with disability."

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

TABLE D-11. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
S&E	478,782	226,137	30,852	25,346	23,481	2,124	31,610	139,232	
Full time	341,778	152,242	20,055	14,228	14,940	1,298	18,640	120,375	
Part time	137,004	73,895	10,797	11,118	8,541	826	12,970	18,857	
Science	358,309	183,301	21,185	21,876	19,391	1,695	25,464	85,397	
Full time	257,403	126,467	14,594	12,259	12,536	1,139	15,470	74,938	
Part time	100,906	56,834	6,591	9,617	6,855	556	9,994	10,459	
Agricultural sciences	13,123	8,662	300	417	506	76	513	2,649	
Full time	9,710	5,995	230	310	374	50	355	2,396	
Part time	3,413	2,667	70	107	132	26	158	253	
Biological sciences	68,449	36,635	5,461	2,980	3,146	278	3,547	16,402	
Full time	57,651	29,899	4,648	2,317	2,617	223	2,698	15,249	
Part time	10,798	6,736	813	663	529	55	849	1,153	
Anatomy	938	523	92	48	41	2	44	188	
Full time	844	462	90	41	38	2	38	173	
Part time	94	61	2	7	3	0	6	15	
Biochemistry	5,814	2,582	458	169	243	15	258	2,089	
Full time	5,470	2,398	428	156	228	14	238	2,008	
Part time	344	184	30	13	15	1	20	81	
Biology	15,668	9,120	877	791	876	68	942	2,994	
Full time	11,913	6,660	666	532	654	53	646	2,702	
Part time	3,755	2,460	211	259	222	15	296	292	
Biometry and epidemiology	4,805	2,227	581	282	193	15	305	1,202	
Full time	3,417	1,490	358	187	130	12	235	1,005	
Part time	1,388	737	223	95	63	3	70	197	
Biophysics	1,183	562	131	24	37	3	51	375	
Full time	1,120	524	118	20	36	3	50	369	
Part time	63	38	13	4	1	0	1	6	
Botany	1,860	966	76	17	49	8	79	665	
Full time	1,667	836	67	16	43	4	69	632	
Part time	193	130	9	1	6	4	10	33	
Cell and molecular biology	6,177	2,986	668	176	280	23	356	1,688	
Full time	5,770	2,783	623	164	263	20	303	1,614	
Part time	407	203	45	12	17	3	53	74	
Ecology	2,165	1,593	53	28	71	11	160	249	
Full time	1,600	1,159	38	18	51	9	117	208	
Part time	565	434	15	10	20	2	43	41	
Entomology and parasitology	1,126	713	28	14	47	9	33	282	
Full time	943	562	23	12	44	4	28	270	
Part time	183	151	5	2	3	5	5	12	
Genetics	2,155	1,164	182	70	63	10	101	565	
Full time	2,063	1,109	176	67	62	10	95	544	
Part time	92	55	6	3	1	0	6	21	
Microbiology, immunology, and virology	5,401	2,857	487	255	307	16	259	1,220	
Full time	5,074	2,647	462	229	298	14	238	1,186	
Part time	327	210	25	26	9	2	21	34	
Nutrition	4,817	2,604	338	270	204	15	243	1,143	
Full time	3,424	1,746	236	169	122	9	142	1,000	
Part time	1,393	858	102	101	82	6	101	143	
Pathology	1,576	879	159	67	58	8	65	340	
Full time	1,358	743	134	62	48	6	48	317	
Part time	218	136	25	5	10	2	17	23	
Pharmacology	3,114	1,514	307	184	145	20	91	853	
Full time	2,905	1,408	284	155	137	20	79	822	
Part time	209	106	23	29	8	0	12	31	

TABLE D-11. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Physiology	2,399	1,264	372	97	104	12	84	466	
Full time	2,187	1,127	354	88	91	12	70	445	
Part time	212	137	18	9	13	0	14	21	
Zoology	1,264	922	35	12	36	10	38	211	
Full time	1,094	789	35	11	30	7	36	186	
Part time	170	133	0	1	6	3	2	25	
Other	7,987	4,159	617	476	392	33	438	1,872	
Full time	6,802	3,456	556	390	342	24	266	1,768	
Part time	1,185	703	61	86	50	9	172	104	
Computer sciences	48,046	16,595	4,671	1,761	1,202	100	3,226	20,491	
Full time	28,317	7,727	2,040	765	495	41	1,230	16,019	
Part time	19,729	8,868	2,631	996	707	59	1,996	4,472	
Earth, atmospheric, and ocean sciences	14,827	10,120	415	262	507	61	701	2,761	
Full time	11,370	7,400	329	170	408	47	533	2,483	
Part time	3,457	2,720	86	92	99	14	168	278	
Atmospheric	1,146	697	58	30	36	3	39	283	
Full time	1,002	595	48	27	34	3	32	263	
Part time	144	102	10	3	2	0	7	20	
Earth	7,212	5,010	136	82	206	29	322	1,427	
Full time	5,537	3,679	102	48	153	22	252	1,281	
Part time	1,675	1,331	34	34	53	7	70	146	
Ocean	2,760	1,896	65	37	150	11	111	490	
Full time	2,198	1,427	54	29	136	9	79	464	
Part time	562	469	11	8	14	2	32	26	
Other	3,709	2,517	156	113	115	18	229	561	
Full time	2,633	1,699	125	66	85	13	170	475	
Part time	1,076	818	31	47	30	5	59	86	
Mathematics and statistics	20,210	8,915	1,419	721	633	38	1,088	7,396	
Full time	15,261	6,154	917	415	380	25	688	6,682	
Part time	4,949	2,761	502	306	253	13	400	714	
Mathematics	16,106	7,661	1,062	617	565	34	917	5,250	
Full time	12,051	5,298	682	357	325	23	581	4,785	
Part time	4,055	2,363	380	260	240	11	336	465	
Statistics	4,104	1,254	357	104	68	4	171	2,146	
Full time	3,210	856	235	58	55	2	107	1,897	
Part time	894	398	122	46	13	2	64	249	
Physical sciences	36,396	16,327	1,706	1,008	1,240	82	1,417	14,616	
Full time	32,386	14,225	1,423	784	1,054	70	1,135	13,695	
Part time	4,010	2,102	283	224	186	12	282	921	
Astronomy	1,191	677	46	10	27	5	63	363	
Full time	1,129	635	42	10	25	5	56	356	
Part time	62	42	4	0	2	0	7	7	
Chemistry	21,122	9,463	1,135	694	821	53	739	8,217	
Full time	18,760	8,359	923	532	724	46	574	7,602	
Part time	2,362	1,104	212	162	97	7	165	615	
Physics	13,472	5,765	503	272	358	20	588	5,966	
Full time	12,210	5,061	444	229	296	16	491	5,673	
Part time	1,262	704	59	43	62	4	97	293	
Other	611	422	22	32	34	4	27	70	
Full time	287	170	14	13	9	3	14	64	
Part time	324	252	8	19	25	1	13	6	
Psychology	57,412	34,479	2,569	5,251	5,119	334	6,632	3,028	
Full time	38,957	23,954	1,794	2,857	3,505	242	4,140	2,465	
Part time	18,455	10,525	775	2,394	1,614	92	2,492	563	

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Clinical	14,283	8,618	672	874	1,761	88	1,781	489	
Full time	10,531	6,378	488	601	1,353	71	1,240	400	
Part time	3,752	2,240	184	273	408	17	541	89	
General	16,786	10,707	869	1,682	1,186	99	1,092	1,151	
Full time	12,091	7,903	654	957	785	66	734	992	
Part time	4,695	2,804	215	725	401	33	358	159	
Nonclinical	26,343	15,154	1,028	2,695	2,172	147	3,759	1,388	
Full time	16,335	9,673	652	1,299	1,367	105	2,166	1,073	
Part time	10,008	5,481	376	1,396	805	42	1,593	315	
Social sciences	99,846	51,568	4,644	9,476	7,038	726	8,340	18,054	
Full time	63,751	31,113	3,213	4,641	3,703	441	4,691	15,949	
Part time	36,095	20,455	1,431	4,835	3,335	285	3,649	2,105	
Agricultural economics	2,118	912	43	65	54	23	65	956	
Full time	1,822	734	39	49	47	13	54	886	
Part time	296	178	4	16	7	10	11	70	
Anthropology (cultural and social)	7,706	5,077	305	277	470	123	609	845	
Full time	5,833	3,745	243	220	352	88	434	751	
Part time	1,873	1,332	62	57	118	35	175	94	
Economics	11,805	3,713	593	319	336	19	448	6,377	
Full time	9,715	2,695	442	208	214	15	331	5,810	
Part time	2,090	1,018	151	111	122	4	117	567	
Geography	4,772	3,255	153	160	153	34	236	781	
Full time	3,196	2,065	107	90	104	18	158	654	
Part time	1,576	1,190	46	70	49	16	78	127	
History and philosophy of science	965	679	36	42	60	5	64	79	
Full time	582	381	31	21	28	3	41	77	
Part time	383	298	5	21	32	2	23	2	
Linguistics	3,187	1,540	247	64	163	17	226	930	
Full time	2,519	1,179	178	44	110	17	147	844	
Part time	668	361	69	20	53	0	79	86	
Political science/public administration	41,106	21,115	1,975	5,000	3,370	251	4,523	4,872	
Full time	22,243	10,979	1,231	2,121	1,461	124	2,187	4,140	
Part time	18,863	10,136	744	2,879	1,909	127	2,336	732	
Sociology	9,037	5,032	401	1,086	664	62	493	1,299	
Full time	6,633	3,659	314	650	458	39	368	1,145	
Part time	2,404	1,373	87	436	206	23	125	154	
Other	19,150	10,245	891	2,463	1,768	192	1,676	1,915	
Full time	11,208	5,676	628	1,238	929	124	971	1,642	
Part time	7,942	4,569	263	1,225	839	68	705	273	
Engineering	120,473	42,836	9,667	3,470	4,090	429	6,146	53,835	
Full time	84,375	25,775	5,461	1,969	2,404	159	3,170	45,437	
Part time	36,098	17,061	4,206	1,501	1,686	270	2,976	8,398	
Aerospace	4,170	1,844	251	73	116	13	231	1,642	
Full time	3,241	1,313	173	47	80	8	142	1,478	
Part time	929	531	78	26	36	5	89	164	
Agricultural	1,059	441	37	25	13	3	19	521	
Full time	855	311	33	19	11	1	17	463	
Part time	204	130	4	6	2	2	2	58	
Biomedical	6,067	2,424	802	192	192	13	305	2,139	
Full time	5,254	2,099	686	169	151	12	268	1,869	
Part time	813	325	116	23	41	1	37	270	



TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students						American	Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Chemical	7,173	2,561	508	146	240	24	211	3,483	
Full time	6,139	2,056	390	116	204	23	147	3,203	
Part time	1,034	505	118	30	36	1	64	280	
Civil	18,050	8,139	1,006	456	896	52	868	6,633	
Full time	13,118	5,441	617	273	590	32	522	5,643	
Part time	4,932	2,698	389	183	306	20	346	990	
Electrical	37,444	9,144	3,788	843	1,090	54	1,787	20,738	
Full time	25,843	4,961	2,004	462	578	26	774	17,038	
Part time	11,601	4,183	1,784	381	512	28	1,013	3,700	
Engineering sciences/physics	1,951	793	143	36	43	9	72	855	
Full time	1,613	594	119	22	29	9	54	786	
Part time	338	199	24	14	14	0	18	69	
Industrial/manufacturing	13,614	5,632	1,046	764	579	51	993	4,549	
Full time	6,113	1,500	310	255	210	15	282	3,541	
Part time	7,501	4,132	736	509	369	36	711	1,008	
Mechanical	17,387	6,898	987	411	575	28	845	7,643	
Full time	12,178	4,117	582	282	331	20	405	6,441	
Part time	5,209	2,781	405	129	244	8	440	1,202	
Metallurgical and materials	5,160	1,859	315	102	106	5	131	2,642	
Full time	4,507	1,534	274	80	81	4	93	2,441	
Part time	653	325	41	22	25	1	38	201	
Mining	279	121	6	3	9	0	22	118	
Full time	212	82	3	3	6	0	17	101	
Part time	67	39	3	0	3	0	5	17	
Nuclear	1,013	534	47	21	38	3	31	339	
Full time	840	407	37	17	26	3	25	325	
Part time	173	127	10	4	12	0	6	14	
Petroleum	808	114	21	31	17	0	9	616	
Full time	631	59	10	19	11	0	4	528	
Part time	177	55	11	12	6	0	5	88	
Other	6,298	2,332	710	367	176	174	622	1,917	
Full time	3,831	1,301	223	205	96	6	420	1,580	
Part time	2,467	1,031	487	162	80	168	202	337	

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	408,932	420,954	431,871	456,260	466,645	481,132	511,603	555,537	567,875
S&E	95,313	93,485	93,918	95,683	98,986	99,173	107,910	118,470	120,025
Sciences	67,552	67,611	67,780	69,947	72,463	72,907	78,206	84,598	85,926
Agricultural sciences	4,021	3,927	3,862	3,858	3,752	4,019	3,955	4,221	4,171
Biological sciences	6,286	6,594	6,368	6,325	6,487	6,334	6,877	7,647	8,099
Computer sciences	10,613	10,489	11,752	14,529	16,341	16,582	19,248	19,853	17,820
Earth, atmospheric, and ocean sciences	1,487	1,435	1,426	1,345	1,363	1,406	1,491	1,570	1,685
Atmospheric sciences	199	177	199	156	140	141	167	179	255
Earth sciences	1,146	1,145	1,105	1,104	1,121	1,151	1,203	1,248	1,314
Ocean sciences	142	113	122	85	102	114	121	143	116
Mathematics and statistics	3,742	3,599	3,525	3,295	3,280	3,408	3,706	4,297	4,598
Physical sciences	4,364	4,141	3,969	3,512	3,737	3,624	3,702	4,030	4,116
Astronomy	115	93	101	102	93	112	123	150	159
Chemistry	2,273	2,268	2,173	1,908	2,009	1,866	1,830	2,056	1,912
Physics	1,686	1,497	1,401	1,244	1,376	1,353	1,453	1,637	1,846
Other	290	283	294	258	259	293	296	187	199
Psychology	13,043	13,633	13,146	13,708	14,335	14,041	14,469	15,298	16,076
Social sciences	23,996	23,793	23,732	23,375	23,168	23,493	24,758	27,682	29,361
Anthropology	1,051	1,111	1,098	950	1,092	1,017	1,043	1,098	1,107
Area and ethnic studies	1,657	1,587	1,550	1,529	1,515	1,497	1,514	1,617	1,681
Economics	2,964	2,804	2,843	2,515	2,492	2,651	2,951	3,201	3,504
History of science	10	18	22	24	26	35	25	25	29
Linguistics	601	642	568	553	552	520	525	574	611
Political science and public administration	13,370	13,368	13,151	13,035	12,929	13,183	14,115	15,766	17,354
Sociology	1,822	1,752	1,774	2,036	1,901	1,957	1,929	2,031	1,518
Other	2,521	2,511	2,726	2,733	2,661	2,633	2,656	3,370	3,557
Engineering	27,761	25,874	26,138	25,736	26,523	26,266	29,704	33,872	34,099
Aerospace engineering	774	625	584	560	611	682	735	870	946
Chemical engineering	1,416	1,345	1,372	1,352	1,368	1,267	1,365	1,506	1,506
Civil engineering	5,002	4,880	4,736	4,140	4,013	3,947	4,190	4,445	4,631
Electrical engineering	8,156	7,341	7,971	8,339	8,630	8,279	10,075	12,173	11,637
Industrial engineering	3,027	2,935	3,109	3,048	3,401	3,388	3,849	4,244	3,937
Materials engineering	774	724	698	759	709	630	720	800	790
Mechanical engineering	4,009	3,756	3,551	3,378	3,472	3,519	3,839	4,555	4,761
Other	4,603	4,268	4,117	4,160	4,319	4,554	4,931	5,279	5,891
Non-S&E	313,619	327,469	337,953	360,577	367,659	381,959	403,693	437,067	447,850
U.S. citizen/permanent resident									
All fields	360,682	371,477	379,666	400,689	405,455	417,821	440,227	481,135	495,470
S&E	73,635	72,220	71,295	70,933	71,564	71,623	75,542	83,120	86,563
Sciences	54,870	54,982	54,318	55,020	56,042	56,160	59,212	64,868	67,344
Agricultural sciences	3,363	3,269	3,264	3,342	3,281	3,540	3,440	3,575	3,575
Biological sciences	5,295	5,671	5,468	5,575	5,614	5,529	5,876	6,532	6,886
Computer sciences	6,712	6,516	6,957	7,966	8,596	8,895	10,159	11,033	10,340
Earth, atmospheric, and ocean sciences	1,238	1,198	1,218	1,150	1,191	1,207	1,285	1,312	1,431
Atmospheric sciences	163	143	152	118	116	113	128	135	206
Earth sciences	962	959	972	962	987	1,001	1,046	1,058	1,132
Ocean sciences	113	96	94	70	88	93	111	119	93
Mathematics and statistics	2,712	2,606	2,499	2,184	2,050	2,114	2,193	2,512	2,821
Physical sciences	2,879	2,734	2,680	2,372	2,498	2,436	2,513	2,662	2,735
Astronomy	94	74	82	80	65	77	94	102	122
Chemistry	1,468	1,501	1,446	1,309	1,388	1,260	1,297	1,384	1,289
Physics	1,082	938	882	761	808	829	851	1,010	1,148
Other	235	221	270	222	237	270	271	166	176

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Psychology	12,619	13,231	12,686	13,241	13,871	13,562	13,804	14,695	15,446
Social sciences	20,052	19,757	19,546	19,190	18,941	18,877	19,942	22,547	24,110
Anthropology	956	1,020	1,012	864	1,004	918	960	993	1,034
Area and ethnic studies	1,489	1,397	1,340	1,300	1,287	1,269	1,266	1,364	1,445
Economics	1,620	1,456	1,440	1,209	1,172	1,191	1,337	1,493	1,774
History of science	10	16	16	22	21	33	18	22	23
Linguistics	430	473	420	380	394	351	353	398	422
Political science and public administration	11,580	11,517	11,220	11,111	10,946	11,037	11,893	13,401	14,860
Sociology	1,647	1,580	1,622	1,845	1,744	1,766	1,744	1,832	1,349
Other	2,320	2,298	2,476	2,459	2,373	2,312	2,371	3,044	3,203
Engineering	18,765	17,238	16,977	15,913	15,522	15,463	16,330	18,252	19,219
Aerospace engineering	576	441	374	339	360	395	447	579	656
Chemical engineering	820	748	780	721	726	662	657	704	739
Civil engineering	3,664	3,664	3,547	3,048	2,780	2,593	2,686	2,782	3,080
Electrical engineering	4,994	4,265	4,452	4,231	3,959	4,036	4,403	5,276	5,229
Industrial engineering	2,044	1,872	2,004	1,872	1,992	1,958	2,084	2,268	2,178
Materials engineering	501	472	447	483	409	386	381	417	451
Mechanical engineering	2,806	2,602	2,423	2,212	2,222	2,214	2,239	2,630	2,847
Other	3,360	3,174	2,950	3,007	3,074	3,219	3,433	3,596	4,039
Non-S&E	287,047	299,257	308,371	329,756	333,891	346,198	364,685	398,015	408,907
White									
All fields	282,713	288,353	291,962	297,226	293,390	296,978	306,552	326,932	336,718
S&E	55,349	53,769	52,328	49,850	48,792	48,410	49,936	54,339	56,082
Sciences	41,773	41,277	40,243	38,830	38,326	38,006	39,210	42,582	43,815
Agricultural sciences	2,918	2,809	2,827	2,864	2,782	2,951	2,898	2,953	2,930
Biological sciences	4,131	4,395	4,212	4,179	4,124	4,085	4,290	4,618	4,862
Computer sciences	4,353	4,105	4,277	4,435	4,541	4,738	5,125	5,686	5,556
Earth, atmospheric, and ocean sciences	1,074	1,084	1,106	1,036	1,043	1,065	1,125	1,144	1,234
Atmospheric sciences	148	128	133	111	99	98	117	120	185
Earth sciences	853	873	889	861	876	890	914	921	963
Ocean sciences	73	83	84	64	68	77	94	103	86
Mathematics and statistics	2,083	2,005	1,895	1,655	1,515	1,555	1,623	1,795	1,982
Physical sciences	2,250	2,088	2,023	1,774	1,874	1,782	1,848	2,023	2,013
Astronomy	79	67	73	65	47	59	67	76	98
Chemistry	1,099	1,068	1,028	929	992	876	905	1,012	886
Physics	866	755	696	585	627	613	642	790	873
Other	206	198	226	195	208	234	234	145	156
Psychology	10,071	10,444	9,820	9,646	9,798	9,315	9,356	9,901	10,141
Social sciences	14,893	14,347	14,083	13,241	12,649	12,515	12,945	14,462	15,097
Anthropology	789	862	839	686	800	705	743	770	779
Area and ethnic studies	999	992	958	898	794	769	720	838	809
Economics	1,205	1,047	1,067	839	840	827	828	927	1,097
History of science	9	12	16	20	18	23	13	17	20
Linguistics	340	364	319	295	284	270	258	290	300
Political science and public administration	8,551	8,185	7,820	7,427	7,005	7,051	7,503	8,353	9,077
Sociology	1,160	1,130	1,165	1,254	1,178	1,183	1,177	1,202	858
Other	1,840	1,755	1,899	1,822	1,730	1,687	1,703	2,065	2,157
Engineering	13,576	12,492	12,085	11,020	10,466	10,404	10,726	11,757	12,267
Aerospace engineering	427	345	297	284	277	310	347	444	500
Chemical engineering	605	541	537	501	487	435	431	455	452
Civil engineering	2,849	2,842	2,777	2,337	2,130	1,931	1,995	2,089	2,245
Electrical engineering	3,165	2,737	2,710	2,474	2,244	2,308	2,433	2,812	2,806
Industrial engineering	1,479	1,360	1,406	1,238	1,290	1,261	1,302	1,361	1,226
Materials engineering	396	350	356	373	295	287	282	304	314
Mechanical engineering	2,119	1,967	1,815	1,630	1,558	1,584	1,618	1,840	2,045

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Other	2,536	2,350	2,187	2,183	2,185	2,288	2,318	2,452	2,679
Non-S&E	227,364	234,584	239,634	247,376	244,598	248,568	256,616	272,593	280,636
Asian/Pacific Islander									
All fields	17,281	17,912	19,936	21,412	21,946	22,610	24,184	26,990	28,659
S&E	6,328	6,180	6,554	6,990	7,045	6,814	7,589	8,567	8,823
Sciences	3,707	3,861	4,103	4,611	4,631	4,613	5,145	5,565	5,729
Agricultural sciences	110	103	83	94	97	126	99	111	111
Biological sciences	528	575	591	595	540	537	646	763	793
Computer sciences	1,283	1,322	1,579	2,028	2,053	2,004	2,284	2,330	2,193
Earth, atmospheric, and ocean sciences	37	30	30	22	28	37	28	39	31
Atmospheric sciences	6	4	11	4	5	7	4	5	4
Earth sciences	28	19	15	17	17	25	18	28	26
Ocean sciences	3	7	4	1	6	5	6	6	1
Mathematics and statistics	220	238	216	180	205	214	221	275	324
Physical sciences	267	278	248	240	220	213	231	196	244
Astronomy	7	2	4	5	5	4	7	6	7
Chemistry	180	197	172	172	153	125	157	128	154
Physics	77	73	60	53	56	66	57	60	75
Other	3	6	12	10	6	18	10	2	8
Psychology	322	364	379	472	498	526	525	580	582
Social sciences	940	951	977	980	990	956	1,111	1,271	1,451
Anthropology	27	25	36	39	39	34	42	43	44
Area and ethnic studies	86	91	83	78	101	92	101	93	111
Economics	144	155	127	132	113	119	156	157	185
History of science	0	0	0	0	0	2	2	3	1
Linguistics	41	37	41	42	43	26	32	37	41
Political science and public administration	500	478	534	516	534	512	600	715	854
Sociology	65	69	72	66	70	86	95	106	78
Other	77	96	84	107	90	85	83	117	137
Engineering	2,621	2,319	2,451	2,379	2,414	2,201	2,444	3,002	3,094
Aerospace engineering	48	42	35	26	37	29	42	51	55
Chemical engineering	98	87	123	114	120	96	96	135	106
Civil engineering	381	386	329	283	220	204	241	254	298
Electrical engineering	1,096	911	1,082	1,061	1,026	919	1,049	1,421	1,379
Industrial engineering	196	153	180	192	212	190	275	284	332
Materials engineering	51	62	50	54	55	43	53	53	64
Mechanical engineering	328	293	278	265	358	315	262	347	326
Other	423	385	374	384	386	405	426	457	534
Non-S&E	10,953	11,732	13,382	14,422	14,901	15,796	16,595	18,423	19,836
Black									
All fields	24,588	26,948	28,616	33,305	35,059	36,524	39,582	44,375	46,901
S&E	4,420	4,870	4,894	5,492	6,117	6,133	6,800	7,459	7,607
Sciences	3,746	4,196	4,180	4,834	5,417	5,395	5,973	6,606	6,733
Agricultural sciences	88	96	95	84	96	88	103	102	85
Biological sciences	199	236	190	223	313	288	298	385	375
Computer sciences	435	411	424	580	654	659	881	902	740
Earth, atmospheric, and ocean sciences	11	12	15	7	21	18	18	22	19
Atmospheric sciences	0	2	2	0	4	2	2	3	5
Earth sciences	9	10	13	6	15	15	13	16	13
Ocean sciences	2	0	0	1	2	1	3	3	1
Mathematics and statistics	145	154	142	98	113	113	98	115	135
Physical sciences	105	132	131	117	130	121	113	120	101

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Astronomy	1	2	0	0	0	2	1	1	2
Chemistry	65	84	79	65	82	74	76	87	55
Physics	32	39	34	44	41	37	32	27	39
Other	7	7	18	8	7	8	4	5	5
Psychology	870	1,059	1,020	1,346	1,598	1,631	1,801	1,923	2,135
Social sciences	1,893	2,096	2,163	2,379	2,492	2,477	2,661	3,037	3,143
Anthropology	28	29	26	33	37	32	33	31	30
Area and ethnic studies	98	109	104	91	86	108	122	127	135
Economics	96	96	94	71	66	76	67	70	96
History of science	0	1	0	0	1	2	0	0	0
Linguistics	7	12	12	4	14	5	7	3	9
Political science and public administration	1,198	1,386	1,453	1,585	1,754	1,717	1,861	2,057	2,235
Sociology	261	247	220	344	294	285	274	301	205
Other	205	216	254	251	240	252	297	448	433
Engineering	674	674	714	658	700	738	827	853	874
Aerospace engineering	10	9	7	7	10	14	8	11	19
Chemical engineering	33	35	43	34	34	31	43	31	56
Civil engineering	116	109	127	93	102	101	96	76	100
Electrical engineering	192	168	198	183	188	189	226	238	229
Industrial engineering	112	89	111	90	119	142	158	170	152
Materials engineering	9	18	13	15	9	19	14	21	19
Mechanical engineering	85	110	96	91	89	71	79	85	82
Other	117	136	119	145	149	171	203	221	217
Non-S&E	20,168	22,078	23,722	27,813	28,942	30,391	32,782	36,916	39,294
Hispanic									
All fields	15,394	16,360	17,416	20,803	22,163	23,165	25,257	29,498	31,815
S&E	3,090	3,220	3,462	3,746	4,077	4,089	4,381	5,078	5,365
Sciences	2,342	2,455	2,655	2,894	3,239	3,234	3,505	3,948	4,213
Agricultural sciences	95	105	116	133	123	175	132	171	185
Biological sciences	194	214	192	268	310	267	267	330	359
Computer sciences	188	211	219	288	440	333	555	602	462
Earth, atmospheric, and ocean sciences	27	23	20	30	28	35	28	36	47
Atmospheric sciences	1	3	2	2	0	1	2	2	3
Earth sciences	25	18	17	26	25	31	24	32	43
Ocean sciences	1	2	1	2	3	3	2	2	1
Mathematics and statistics	88	63	85	100	72	82	108	113	130
Physical sciences	100	116	129	96	119	136	144	127	144
Astronomy	4	2	0	2	1	2	2	3	2
Chemistry	46	72	84	56	74	72	90	70	84
Physics	39	36	35	34	37	56	41	44	53
Other	11	6	10	4	7	6	11	10	5
Psychology	667	718	787	837	937	953	957	1,085	1,219
Social sciences	983	1,005	1,107	1,142	1,210	1,253	1,314	1,484	1,667
Anthropology	35	37	48	37	45	59	48	58	62
Area and ethnic studies	102	91	96	107	113	121	139	117	151
Economics	64	71	63	67	53	57	79	80	111
History of science	0	1	0	0	1	0	1	0	0
Linguistics	23	24	27	18	27	19	23	26	26
Political science and public administration	593	634	651	701	736	743	800	905	1,023
Sociology	87	69	97	110	116	140	117	139	111
Other	79	78	125	102	119	114	107	159	183
Engineering	748	765	807	852	838	855	876	1,130	1,152
Aerospace engineering	10	20	16	13	11	19	14	21	39
Chemical engineering	43	51	46	39	40	45	39	40	41
Civil engineering	147	159	158	180	168	187	152	163	208

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Electrical engineering	208	187	190	211	172	180	242	340	276
Industrial engineering	130	108	150	172	192	204	163	229	239
Materials engineering	21	22	15	15	22	16	6	16	26
Mechanical engineering	98	113	117	99	93	87	117	157	153
Other	91	105	115	123	140	117	143	164	170
Non-S&E	12,304	13,140	13,954	17,057	18,086	19,076	20,876	24,420	26,450
American Indian/Alaskan Native									
All fields	1,693	1,844	1,951	2,099	2,274	2,382	2,546	2,826	2,892
S&E	321	370	372	383	472	420	452	535	486
Sciences	265	317	318	319	412	363	382	450	404
Agricultural sciences	14	18	23	23	18	25	24	23	27
Biological sciences	17	25	21	26	29	34	31	33	29
Computer sciences	26	25	15	32	68	32	42	57	35
Earth, atmospheric, and ocean sciences	5	5	10	9	11	4	9	7	11
Atmospheric sciences	0	0	0	0	0	0	0	0	1
Earth sciences	4	5	8	9	8	4	9	7	10
Ocean sciences	1	0	2	0	3	0	0	0	0
Mathematics and statistics	5	14	9	9	9	8	8	7	9
Physical sciences	5	11	14	9	9	15	12	8	11
Astronomy	0	0	0	0	0	0	1	0	1
Chemistry	3	8	12	5	7	11	5	3	6
Physics	2	2	2	3	2	4	5	5	3
Other	0	1	0	1	0	0	1	0	1
Psychology	78	97	108	69	106	96	104	108	115
Social sciences	115	122	118	142	162	149	152	207	167
Anthropology	12	10	14	14	17	12	11	19	14
Area and ethnic studies	22	21	15	16	20	20	33	27	27
Economics	3	8	5	3	7	10	6	6	10
History of science	0	0	0	0	1	1	0	0	0
Linguistics	2	2	2	1	1	4	1	2	6
Political science and public administration	48	55	49	62	70	74	77	118	90
Sociology	20	16	19	30	28	17	17	17	7
Other	8	10	14	16	18	11	7	18	13
Engineering	56	53	54	64	60	57	70	85	82
Aerospace engineering	5	2	0	0	2	4	2	6	2
Chemical engineering	4	5	1	3	4	2	2	0	4
Civil engineering	9	10	14	14	10	11	13	16	13
Electrical engineering	15	8	9	14	10	13	18	10	20
Industrial engineering	3	6	7	8	15	8	8	19	18
Materials engineering	2	0	0	4	1	2	1	1	1
Mechanical engineering	11	10	13	7	7	6	9	21	6
Other	7	12	10	14	11	11	17	12	18
Non-S&E	1,372	1,474	1,579	1,716	1,802	1,962	2,094	2,291	2,406
Other or unknown race/ethnicity									
All fields	19,013	20,060	19,785	25,844	30,623	36,162	42,106	50,514	48,485
S&E	4,127	3,811	3,685	4,472	5,061	5,757	6,384	7,142	8,200
Sciences	3,037	2,876	2,819	3,532	4,017	4,549	4,997	5,717	6,450
Agricultural sciences	138	138	120	144	165	175	184	215	237
Biological sciences	226	226	262	284	298	318	344	403	468
Computer sciences	427	442	443	603	840	1,129	1,272	1,456	1,354
Earth, atmospheric, and ocean sciences	84	44	37	46	60	48	77	64	89
Atmospheric sciences	8	6	4	1	8	5	3	5	8
Earth sciences	43	34	30	43	46	36	68	54	77

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Ocean sciences	33	4	3	2	6	7	6	5	4
Mathematics and statistics	171	132	152	142	136	142	135	207	241
Physical sciences	152	109	135	136	146	169	165	188	222
Astronomy	3	1	5	8	12	10	16	16	12
Chemistry	75	72	71	82	80	102	64	84	104
Physics	66	33	55	42	45	53	74	84	105
Other	8	3	4	4	9	4	11	4	1
Psychology	611	549	572	871	934	1,041	1,061	1,098	1,254
Social sciences	1,228	1,236	1,098	1,306	1,438	1,527	1,759	2,086	2,585
Anthropology	65	57	49	55	66	76	83	72	105
Area and ethnic studies	182	93	84	110	173	159	151	162	212
Economics	108	79	84	97	93	102	201	253	275
History of science	1	2	0	2	0	5	2	2	2
Linguistics	17	34	19	20	25	27	32	40	40
Political science and public administration	690	779	713	820	847	940	1,052	1,253	1,581
Sociology	54	49	49	41	58	55	64	67	90
Other	111	143	100	161	176	163	174	237	280
Engineering	1,090	935	866	940	1,044	1,208	1,387	1,425	1,750
Aerospace engineering	76	23	19	9	23	19	34	46	41
Chemical engineering	37	29	30	30	41	53	46	43	80
Civil engineering	162	158	142	141	150	159	189	184	216
Electrical engineering	318	254	263	288	319	427	435	455	519
Industrial engineering	124	156	150	172	164	153	178	205	211
Materials engineering	22	20	13	22	27	19	25	22	27
Mechanical engineering	165	109	104	120	117	151	154	180	235
Other	186	186	145	158	203	227	326	290	421
Non-S&E	14,886	16,249	16,100	21,372	25,562	30,405	35,722	43,372	40,285
Temporary resident									
All fields	48,250	49,477	52,205	55,571	61,190	63,311	71,376	74,402	72,405
S&E	21,678	21,265	22,623	24,750	27,422	27,550	32,368	35,350	33,462
Sciences	12,682	12,629	13,462	14,927	16,421	16,747	18,994	19,730	18,582
Agricultural sciences	658	658	598	516	471	479	515	646	596
Biological sciences	991	923	900	750	873	805	1,001	1,115	1,213
Computer sciences	3,901	3,973	4,795	6,563	7,745	7,687	9,089	8,820	7,480
Earth, atmospheric, and ocean sciences	249	237	208	195	172	199	206	258	254
Atmospheric sciences	36	34	47	38	24	28	39	44	49
Earth sciences	184	186	133	142	134	150	157	190	182
Ocean sciences	29	17	28	15	14	21	10	24	23
Mathematics and statistics	1,030	993	1,026	1,111	1,230	1,294	1,513	1,785	1,777
Physical sciences	1,485	1,407	1,289	1,140	1,239	1,188	1,189	1,368	1,381
Astronomy	21	19	19	22	28	35	29	48	37
Chemistry	805	767	727	599	621	606	533	672	623
Physics	604	559	519	483	568	524	602	627	698
Other	55	62	24	36	22	23	25	21	23
Psychology	424	402	460	467	464	479	665	603	630
Social sciences	3,944	4,036	4,186	4,185	4,227	4,616	4,816	5,135	5,251
Anthropology	95	91	86	86	88	99	83	105	73
Area and ethnic studies	168	190	210	229	228	228	248	253	236
Economics	1,344	1,348	1,403	1,306	1,320	1,460	1,614	1,708	1,730
History of science	0	2	6	2	5	2	7	3	6
Linguistics	171	169	148	173	158	169	172	176	189
Political science and public administration	1,790	1,851	1,931	1,924	1,983	2,146	2,222	2,365	2,494
Sociology	175	172	152	191	157	191	185	199	169
Other	201	213	250	274	288	321	285	326	354

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Engineering	8,996	8,636	9,161	9,823	11,001	10,803	13,374	15,620	14,880
Aerospace engineering	198	184	210	221	251	287	288	291	290
Chemical engineering	596	597	592	631	642	605	708	802	767
Civil engineering	1,338	1,216	1,189	1,092	1,233	1,354	1,504	1,663	1,551
Electrical engineering	3,162	3,076	3,519	4,108	4,671	4,243	5,672	6,897	6,408
Industrial engineering	983	1,063	1,105	1,176	1,409	1,430	1,765	1,976	1,759
Materials engineering	273	252	251	276	300	244	339	383	339
Mechanical engineering	1,203	1,154	1,128	1,166	1,250	1,305	1,600	1,925	1,914
Other	1,243	1,094	1,167	1,153	1,245	1,335	1,498	1,683	1,852
Non-S&E	26,572	28,212	29,582	30,821	33,768	35,761	39,008	39,052	38,943

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.



TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
<b>White</b>									
All fields	78.4	77.6	76.9	74.2	72.4	71.1	69.6	68.0	68.0
S&E	75.2	74.5	73.4	70.3	68.2	67.6	66.1	65.4	64.8
Sciences	76.1	75.1	74.1	70.6	68.4	67.7	66.2	65.6	65.1
Agricultural sciences	86.8	85.9	86.6	85.7	84.8	83.4	84.2	82.6	82.0
Biological sciences	78.0	77.5	77.0	75.0	73.5	73.9	73.0	70.7	70.6
Computer sciences	64.9	63.0	61.5	55.7	52.8	53.3	50.4	51.5	53.7
Earth, atmospheric, and ocean sciences	86.8	90.5	90.8	90.1	87.6	88.2	87.5	87.2	86.2
Atmospheric sciences	90.8	89.5	87.5	94.1	85.3	86.7	91.4	88.9	89.8
Earth sciences	88.7	91.0	91.5	89.5	88.8	88.9	87.4	87.1	85.1
Ocean sciences	64.6	86.5	89.4	91.4	77.3	82.8	84.7	86.6	92.5
Mathematics and statistics	76.8	76.9	75.8	75.8	73.9	73.6	74.0	71.5	70.3
Physical sciences	78.2	76.4	75.5	74.8	75.0	73.2	73.5	76.0	73.6
Astronomy	84.0	90.5	89.0	81.3	72.3	76.6	71.3	74.5	80.3
Chemistry	74.9	71.2	71.1	71.0	71.5	69.5	69.8	73.1	68.7
Physics	80.0	80.5	78.9	76.9	77.6	73.9	75.4	78.2	76.0
Other	87.7	89.6	83.7	87.8	87.8	86.7	86.3	87.3	88.6
Psychology	79.8	78.9	77.4	72.8	70.6	68.7	67.8	67.4	65.7
Social sciences	74.3	72.6	72.1	69.0	66.8	66.3	64.9	64.1	62.6
Anthropology	82.5	84.5	82.9	79.4	79.7	76.8	77.4	77.5	75.3
Area and ethnic studies	67.1	71.0	71.5	69.1	61.7	60.6	56.9	61.4	56.0
Economics	74.4	71.9	74.1	69.4	71.7	69.4	61.9	62.1	61.8
History of science	90.0	75.0	100.0	90.9	85.7	69.7	72.2	77.3	87.0
Linguistics	79.1	77.0	76.0	77.6	72.1	76.9	73.1	72.9	71.1
Political science and public administration	73.8	71.1	69.7	66.8	64.0	63.9	63.1	62.3	61.1
Sociology	70.4	71.5	71.8	68.0	67.5	67.0	67.5	65.6	63.6
Other	79.3	76.4	76.7	74.1	72.9	73.0	71.8	67.8	67.3
Engineering	72.3	72.5	71.2	69.3	67.4	67.3	65.7	64.4	63.8
Aerospace engineering	74.1	78.2	79.4	83.8	76.9	78.5	77.6	76.7	76.2
Chemical engineering	73.8	72.3	68.8	69.5	67.1	65.7	65.6	64.6	61.2
Civil engineering	77.8	77.6	78.3	76.7	76.6	74.5	74.3	75.1	72.9
Electrical engineering	63.4	64.2	60.9	58.5	56.7	57.2	55.3	53.3	53.7
Industrial engineering	72.4	72.6	70.2	66.1	64.8	64.4	62.5	60.0	56.3
Materials engineering	79.0	74.2	79.6	77.2	72.1	74.4	74.0	72.9	69.6
Mechanical engineering	75.5	75.6	74.9	73.7	70.1	71.5	72.3	70.0	71.8
Other	75.5	74.0	74.1	72.6	71.1	71.1	67.5	68.2	66.3
Non-S&E	79.2	78.4	77.7	75.0	73.3	71.8	70.4	68.5	68.6
<b>Asian/Pacific Islander</b>									
All fields	4.8	4.8	5.3	5.3	5.4	5.4	5.5	5.6	5.8
S&E	8.6	8.6	9.2	9.9	9.8	9.5	10.0	10.3	10.2
Sciences	6.8	7.0	7.6	8.4	8.3	8.2	8.7	8.6	8.5
Agricultural sciences	3.3	3.2	2.5	2.8	3.0	3.6	2.9	3.1	3.1
Biological sciences	10.0	10.1	10.8	10.7	9.6	9.7	11.0	11.7	11.5
Computer sciences	19.1	20.3	22.7	25.5	23.9	22.5	22.5	21.1	21.2
Earth, atmospheric, and ocean sciences	3.0	2.5	2.5	1.9	2.4	3.1	2.2	3.0	2.2
Atmospheric sciences	3.7	2.8	7.2	3.4	4.3	6.2	3.1	3.7	1.9
Earth sciences	2.9	2.0	1.5	1.8	1.7	2.5	1.7	2.6	2.3
Ocean sciences	2.7	7.3	4.3	1.4	6.8	5.4	5.4	5.0	1.1
Mathematics and statistics	8.1	9.1	8.6	8.2	10.0	10.1	10.1	10.9	11.5
Physical sciences	9.3	10.2	9.3	10.1	8.8	8.7	9.2	7.4	8.9
Astronomy	7.4	2.7	4.9	6.3	7.7	5.2	7.4	5.9	5.7

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemistry	12.3	13.1	11.9	13.1	11.0	9.9	12.1	9.2	11.9
Physics	7.1	7.8	6.8	7.0	6.9	8.0	6.7	5.9	6.5
Other	1.3	2.7	4.4	4.5	2.5	6.7	3.7	1.2	4.5
Psychology	2.6	2.8	3.0	3.6	3.6	3.9	3.8	3.9	3.8
Social sciences	4.7	4.8	5.0	5.1	5.2	5.1	5.6	5.6	6.0
Anthropology	2.8	2.5	3.6	4.5	3.9	3.7	4.4	4.3	4.3
Area and ethnic studies	5.8	6.5	6.2	6.0	7.8	7.2	8.0	6.8	7.7
Economics	8.9	10.6	8.8	10.9	9.6	10.0	11.7	10.5	10.4
History of science	0.0	0.0	0.0	0.0	0.0	6.1	11.1	13.6	4.3
Linguistics	9.5	7.8	9.8	11.1	10.9	7.4	9.1	9.3	9.7
Political science and public administration	4.3	4.2	4.8	4.6	4.9	4.6	5.0	5.3	5.7
Sociology	3.9	4.4	4.4	3.6	4.0	4.9	5.4	5.8	5.8
Other	3.3	4.2	3.4	4.4	3.8	3.7	3.5	3.8	4.3
Engineering	14.0	13.5	14.4	15.0	15.6	14.2	15.0	16.4	16.1
Aerospace engineering	8.3	9.5	9.4	7.7	10.3	7.3	9.4	8.8	8.4
Chemical engineering	12.0	11.6	15.8	15.8	16.5	14.5	14.6	19.2	14.3
Civil engineering	10.4	10.5	9.3	9.3	7.9	7.9	9.0	9.1	9.7
Electrical engineering	21.9	21.4	24.3	25.1	25.9	22.8	23.8	26.9	26.4
Industrial engineering	9.6	8.2	9.0	10.3	10.6	9.7	13.2	12.5	15.2
Materials engineering	10.2	13.1	11.2	11.2	13.4	11.1	13.9	12.7	14.2
Mechanical engineering	11.7	11.3	11.5	12.0	16.1	14.2	11.7	13.2	11.5
Other	12.6	12.1	12.7	12.8	12.6	12.6	12.4	12.7	13.2
Non-S&E	3.8	3.9	4.3	4.4	4.5	4.6	4.6	4.6	4.9
Black									
All fields	6.8	7.3	7.5	8.3	8.6	8.7	9.0	9.2	9.5
S&E	6.0	6.7	6.9	7.7	8.5	8.6	9.0	9.0	8.8
Sciences	6.8	7.6	7.7	8.8	9.7	9.6	10.1	10.2	10.0
Agricultural sciences	2.6	2.9	2.9	2.5	2.9	2.5	3.0	2.9	2.4
Biological sciences	3.8	4.2	3.5	4.0	5.6	5.2	5.1	5.9	5.4
Computer sciences	6.5	6.3	6.1	7.3	7.6	7.4	8.7	8.2	7.2
Earth, atmospheric, and ocean sciences	0.9	1.0	1.2	0.6	1.8	1.5	1.4	1.7	1.3
Atmospheric sciences	0.0	1.4	1.3	0.0	3.4	1.8	1.6	2.2	2.4
Earth sciences	0.9	1.0	1.3	0.6	1.5	1.5	1.2	1.5	1.1
Ocean sciences	1.8	0.0	0.0	1.4	2.3	1.1	2.7	2.5	1.1
Mathematics and statistics	5.3	5.9	5.7	4.5	5.5	5.3	4.5	4.6	4.8
Physical sciences	3.6	4.8	4.9	4.9	5.2	5.0	4.5	4.5	3.7
Astronomy	1.1	2.7	0.0	0.0	0.0	2.6	1.1	1.0	1.6
Chemistry	4.4	5.6	5.5	5.0	5.9	5.9	5.9	6.3	4.3
Physics	3.0	4.2	3.9	5.8	5.1	4.5	3.8	2.7	3.4
Other	3.0	3.2	6.7	3.6	3.0	3.0	1.5	3.0	2.8
Psychology	6.9	8.0	8.0	10.2	11.5	12.0	13.0	13.1	13.8
Social sciences	9.4	10.6	11.1	12.4	13.2	13.1	13.3	13.5	13.0
Anthropology	2.9	2.8	2.6	3.8	3.7	3.5	3.4	3.1	2.9
Area and ethnic studies	6.6	7.8	7.8	7.0	6.7	8.5	9.6	9.3	9.3
Economics	5.9	6.6	6.5	5.9	5.6	6.4	5.0	4.7	5.4
History of science	0.0	6.3	0.0	0.0	4.8	6.1	0.0	0.0	0.0
Linguistics	1.6	2.5	2.9	1.1	3.6	1.4	2.0	0.8	2.1
Political science and public administration	10.3	12.0	13.0	14.3	16.0	15.6	15.6	15.3	15.0
Sociology	15.8	15.6	13.6	18.6	16.9	16.1	15.7	16.4	15.2
Other	8.8	9.4	10.3	10.2	10.1	10.9	12.5	14.7	13.5
Engineering	3.6	3.9	4.2	4.1	4.5	4.8	5.1	4.7	4.5
Aerospace engineering	1.7	2.0	1.9	2.1	2.8	3.5	1.8	1.9	2.9

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)									
Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemical engineering	4.0	4.7	5.5	4.7	4.7	4.7	6.5	4.4	7.6
Civil engineering	3.2	3.0	3.6	3.1	3.7	3.9	3.6	2.7	3.2
Electrical engineering	3.8	3.9	4.4	4.3	4.7	4.7	5.1	4.5	4.4
Industrial engineering	5.5	4.8	5.5	4.8	6.0	7.3	7.6	7.5	7.0
Materials engineering	1.8	3.8	2.9	3.1	2.2	4.9	3.7	5.0	4.2
Mechanical engineering	3.0	4.2	4.0	4.1	4.0	3.2	3.5	3.2	2.9
Other	3.5	4.3	4.0	4.8	4.8	5.3	5.9	6.1	5.4
Non-S&E	7.0	7.4	7.7	8.4	8.7	8.8	9.0	9.3	9.6
Hispanic									
All fields	4.3	4.4	4.6	5.2	5.5	5.5	5.7	6.1	6.4
S&E	4.2	4.5	4.9	5.3	5.7	5.7	5.8	6.1	6.2
Sciences	4.3	4.5	4.9	5.3	5.8	5.8	5.9	6.1	6.3
Agricultural sciences	2.8	3.2	3.6	4.0	3.7	4.9	3.8	4.8	5.2
Biological sciences	3.7	3.8	3.5	4.8	5.5	4.8	4.5	5.1	5.2
Computer sciences	2.8	3.2	3.1	3.6	5.1	3.7	5.5	5.5	4.5
Earth, atmospheric, and ocean sciences	2.2	1.9	1.6	2.6	2.4	2.9	2.2	2.7	3.3
Atmospheric sciences	0.6	2.1	1.3	1.7	0.0	0.9	1.6	1.5	1.5
Earth sciences	2.6	1.9	1.7	2.7	2.5	3.1	2.3	3.0	3.8
Ocean sciences	0.9	2.1	1.1	2.9	3.4	3.2	1.8	1.7	1.1
Mathematics and statistics	3.2	2.4	3.4	4.6	3.5	3.9	4.9	4.5	4.6
Physical sciences	3.5	4.2	4.8	4.0	4.8	5.6	5.7	4.8	5.3
Astronomy	4.3	2.7	0.0	2.5	1.5	2.6	2.1	2.9	1.6
Chemistry	3.1	4.8	5.8	4.3	5.3	5.7	6.9	5.1	6.5
Physics	3.6	3.8	4.0	4.5	4.6	6.8	4.8	4.4	4.6
Other	4.7	2.7	3.7	1.8	3.0	2.2	4.1	6.0	2.8
Psychology	5.3	5.4	6.2	6.3	6.8	7.0	6.9	7.4	7.9
Social sciences	4.9	5.1	5.7	6.0	6.4	6.6	6.6	6.6	6.9
Anthropology	3.7	3.6	4.7	4.3	4.5	6.4	5.0	5.8	6.0
Area and ethnic studies	6.9	6.5	7.2	8.2	8.8	9.5	11.0	8.6	10.4
Economics	4.0	4.9	4.4	5.5	4.5	4.8	5.9	5.4	6.3
History of science	0.0	6.3	0.0	0.0	4.8	0.0	5.6	0.0	0.0
Linguistics	5.3	5.1	6.4	4.7	6.9	5.4	6.5	6.5	6.2
Political science and public administration	5.1	5.5	5.8	6.3	6.7	6.7	6.7	6.8	6.9
Sociology	5.3	4.4	6.0	6.0	6.7	7.9	6.7	7.6	8.2
Other	3.4	3.4	5.0	4.1	5.0	4.9	4.5	5.2	5.7
Engineering	4.0	4.4	4.8	5.4	5.4	5.5	5.4	6.2	6.0
Aerospace engineering	1.7	4.5	4.3	3.8	3.1	4.8	3.1	3.6	5.9
Chemical engineering	5.2	6.8	5.9	5.4	5.5	6.8	5.9	5.7	5.5
Civil engineering	4.0	4.3	4.5	5.9	6.0	7.2	5.7	5.9	6.8
Electrical engineering	4.2	4.4	4.3	5.0	4.3	4.5	5.5	6.4	5.3
Industrial engineering	6.4	5.8	7.5	9.2	9.6	10.4	7.8	10.1	11.0
Materials engineering	4.2	4.7	3.4	3.1	5.4	4.1	1.6	3.8	5.8
Mechanical engineering	3.5	4.3	4.8	4.5	4.2	3.9	5.2	6.0	5.4
Other	2.7	3.3	3.9	4.1	4.6	3.6	4.2	4.6	4.2
Non-S&E	4.3	4.4	4.5	5.2	5.4	5.5	5.7	6.1	6.5
American Indian/Alaskan Native									
All fields	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
S&E	0.4	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6
Sciences	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.6
Agricultural sciences	0.4	0.6	0.7	0.7	0.5	0.7	0.7	0.6	0.8
Biological sciences	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.4

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005  
(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Computer sciences	0.4	0.4	0.2	0.4	0.8	0.4	0.4	0.5	0.3
Earth, atmospheric, and ocean sciences	0.4	0.4	0.8	0.8	0.9	0.3	0.7	0.5	0.8
Atmospheric sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Earth sciences	0.4	0.5	0.8	0.9	0.8	0.4	0.9	0.7	0.9
Ocean sciences	0.9	0.0	2.1	0.0	3.4	0.0	0.0	0.0	0.0
Mathematics and statistics	0.2	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3
Physical sciences	0.2	0.4	0.5	0.4	0.4	0.6	0.5	0.3	0.4
Astronomy	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.8
Chemistry	0.2	0.5	0.8	0.4	0.5	0.9	0.4	0.2	0.5
Physics	0.2	0.2	0.2	0.4	0.2	0.5	0.6	0.5	0.3
Other	0.0	0.5	0.0	0.5	0.0	0.0	0.4	0.0	0.6
Psychology	0.6	0.7	0.9	0.5	0.8	0.7	0.8	0.7	0.7
Social sciences	0.6	0.6	0.6	0.7	0.9	0.8	0.8	0.9	0.7
Anthropology	1.3	1.0	1.4	1.6	1.7	1.3	1.1	1.9	1.4
Area and ethnic studies	1.5	1.5	1.1	1.2	1.6	1.6	2.6	2.0	1.9
Economics	0.2	0.5	0.3	0.2	0.6	0.8	0.4	0.4	0.6
History of science	0.0	0.0	0.0	0.0	4.8	3.0	0.0	0.0	0.0
Linguistics	0.5	0.4	0.5	0.3	0.3	1.1	0.3	0.5	1.4
Political science and public administration	0.4	0.5	0.4	0.6	0.6	0.7	0.6	0.9	0.6
Sociology	1.2	1.0	1.2	1.6	1.6	1.0	1.0	0.9	0.5
Other	0.3	0.4	0.6	0.7	0.8	0.5	0.3	0.6	0.4
Engineering	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.4
Aerospace engineering	0.9	0.5	0.0	0.0	0.6	1.0	0.4	1.0	0.3
Chemical engineering	0.5	0.7	0.1	0.4	0.6	0.3	0.3	0.0	0.5
Civil engineering	0.2	0.3	0.4	0.5	0.4	0.4	0.5	0.6	0.4
Electrical engineering	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.4
Industrial engineering	0.1	0.3	0.3	0.4	0.8	0.4	0.4	0.8	0.8
Materials engineering	0.4	0.0	0.0	0.8	0.2	0.5	0.3	0.2	0.2
Mechanical engineering	0.4	0.4	0.5	0.3	0.3	0.3	0.4	0.8	0.2
Other	0.2	0.4	0.3	0.5	0.4	0.3	0.5	0.3	0.4
Non-S&E	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Other or unknown race/ethnicity									
All fields	5.3	5.4	5.2	6.4	7.6	8.7	9.6	10.5	9.8
S&E	5.6	5.3	5.2	6.3	7.1	8.0	8.5	8.6	9.5
Sciences	5.5	5.2	5.2	6.4	7.2	8.1	8.4	8.8	9.6
Agricultural sciences	4.1	4.2	3.7	4.3	5.0	4.9	5.3	6.0	6.6
Biological sciences	4.3	4.0	4.8	5.1	5.3	5.8	5.9	6.2	6.8
Computer sciences	6.4	6.8	6.4	7.6	9.8	12.7	12.5	13.2	13.1
Earth, atmospheric, and ocean sciences	6.8	3.7	3.0	4.0	5.0	4.0	6.0	4.9	6.2
Atmospheric sciences	4.9	4.2	2.6	0.8	6.9	4.4	2.3	3.7	3.9
Earth sciences	4.5	3.5	3.1	4.5	4.7	3.6	6.5	5.1	6.8
Ocean sciences	29.2	4.2	3.2	2.9	6.8	7.5	5.4	4.2	4.3
Mathematics and statistics	6.3	5.1	6.1	6.5	6.6	6.7	6.2	8.2	8.5
Physical sciences	5.3	4.0	5.0	5.7	5.8	6.9	6.6	7.1	8.1
Astronomy	3.2	1.4	6.1	10.0	18.5	13.0	17.0	15.7	9.8
Chemistry	5.1	4.8	4.9	6.3	5.8	8.1	4.9	6.1	8.1
Physics	6.1	3.5	6.2	5.5	5.6	6.4	8.7	8.3	9.1
Other	3.4	1.4	1.5	1.8	3.8	1.5	4.1	2.4	0.6
Psychology	4.8	4.1	4.5	6.6	6.7	7.7	7.7	7.5	8.1
Social sciences	6.1	6.3	5.6	6.8	7.6	8.1	8.8	9.3	10.7
Anthropology	6.8	5.6	4.8	6.4	6.6	8.3	8.6	7.3	10.2

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005  
(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Area and ethnic studies	12.2	6.7	6.3	8.5	13.4	12.5	11.9	11.9	14.7
Economics	6.7	5.4	5.8	8.0	7.9	8.6	15.0	16.9	15.5
History of science	10.0	12.5	0.0	9.1	0.0	15.2	11.1	9.1	8.7
Linguistics	4.0	7.2	4.5	5.3	6.3	7.7	9.1	10.1	9.5
Political science and public administration	6.0	6.8	6.4	7.4	7.7	8.5	8.8	9.4	10.6
Sociology	3.3	3.1	3.0	2.2	3.3	3.1	3.7	3.7	6.7
Other	4.8	6.2	4.0	6.5	7.4	7.1	7.3	7.8	8.7
Engineering	5.8	5.4	5.1	5.9	6.7	7.8	8.5	7.8	9.1
Aerospace engineering	13.2	5.2	5.1	2.7	6.4	4.8	7.6	7.9	6.3
Chemical engineering	4.5	3.9	3.8	4.2	5.6	8.0	7.0	6.1	10.8
Civil engineering	4.4	4.3	4.0	4.6	5.4	6.1	7.0	6.6	7.0
Electrical engineering	6.4	6.0	5.9	6.8	8.1	10.6	9.9	8.6	9.9
Industrial engineering	6.1	8.3	7.5	9.2	8.2	7.8	8.5	9.0	9.7
Materials engineering	4.4	4.2	2.9	4.6	6.6	4.9	6.6	5.3	6.0
Mechanical engineering	5.9	4.2	4.3	5.4	5.3	6.8	6.9	6.8	8.3
Other	5.5	5.9	4.9	5.3	6.6	7.1	9.5	8.1	10.4
Non-S&E	5.2	5.4	5.2	6.5	7.7	8.8	9.8	10.9	9.9

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	228,572	239,497	246,810	265,026	273,639	283,035	300,845	328,202	337,818
S&E	37,453	38,262	38,583	41,470	43,393	43,472	46,711	51,672	53,051
Sciences	32,701	33,567	33,420	36,130	37,765	37,898	40,527	44,537	45,444
Agricultural sciences	1,707	1,695	1,709	1,819	1,837	1,997	2,059	2,256	2,220
Biological sciences	3,341	3,518	3,354	3,510	3,755	3,669	4,018	4,487	4,870
Computer sciences	2,850	2,979	3,414	4,868	5,508	5,499	6,091	6,195	5,078
Earth, atmospheric, and ocean sciences	436	487	494	513	564	572	612	701	712
Atmospheric sciences	35	42	52	37	40	46	55	67	70
Earth sciences	347	393	397	434	472	473	501	566	577
Ocean sciences	54	52	45	42	52	53	56	68	65
Mathematics and statistics	1,506	1,489	1,470	1,498	1,389	1,471	1,677	1,950	2,011
Physical sciences	1,450	1,333	1,440	1,215	1,301	1,326	1,324	1,513	1,529
Astronomy	27	32	30	25	36	27	42	53	62
Chemistry	998	927	998	823	825	852	829	950	939
Physics	301	255	255	244	286	286	313	413	427
Other	124	119	157	123	154	161	140	97	101
Psychology	9,373	9,918	9,540	10,293	10,858	10,672	11,100	11,950	12,632
Social sciences	12,038	12,148	11,999	12,414	12,553	12,692	13,646	15,485	16,392
Anthropology	631	712	686	587	689	642	655	721	737
Area and ethnic studies	856	845	842	879	896	879	888	961	988
Economics	1,002	953	944	952	973	1,050	1,161	1,252	1,391
History of science	4	7	7	6	10	17	10	14	12
Linguistics	393	418	389	407	380	360	380	410	433
Political science and public administration	6,654	6,691	6,566	6,720	6,841	6,978	7,723	8,828	9,756
Sociology	1,180	1,142	1,118	1,387	1,258	1,315	1,296	1,358	1,033
Other	1,318	1,380	1,447	1,476	1,506	1,451	1,533	1,941	2,042
Engineering	4,752	4,695	5,163	5,340	5,628	5,574	6,184	7,135	7,607
Aerospace engineering	92	75	81	76	90	125	107	149	164
Chemical engineering	306	332	344	344	352	335	343	417	425
Civil engineering	1,064	1,099	1,154	1,075	1,061	1,063	1,148	1,211	1,322
Electrical engineering	1,196	1,144	1,376	1,558	1,673	1,561	1,902	2,385	2,470
Industrial engineering	624	604	676	648	789	795	844	906	919
Materials engineering	175	174	170	201	173	171	183	199	204
Mechanical engineering	454	419	461	455	448	468	459	563	598
Other	841	848	901	983	1,042	1,056	1,198	1,305	1,505
Non-S&E	191,119	201,235	208,227	223,556	230,246	239,563	254,134	276,530	284,767
U.S. citizen/permanent resident									
All fields	210,372	220,221	226,085	242,244	248,590	256,938	272,030	298,321	307,845
S&E	31,300	31,983	31,669	33,169	34,334	34,383	36,238	40,335	42,036
Sciences	27,940	28,737	28,229	29,856	30,961	30,941	32,702	36,357	37,743
Agricultural sciences	1,447	1,448	1,466	1,601	1,611	1,751	1,804	1,932	1,931
Biological sciences	2,810	3,010	2,850	3,051	3,248	3,177	3,431	3,829	4,125
Computer sciences	1,853	1,867	2,020	2,546	2,774	2,871	3,124	3,461	2,853
Earth, atmospheric, and ocean sciences	374	421	443	456	495	497	544	603	614
Atmospheric sciences	20	32	37	22	28	33	38	50	52
Earth sciences	311	341	364	396	420	419	453	496	506
Ocean sciences	43	48	42	38	47	45	53	57	56
Mathematics and statistics	1,147	1,142	1,100	1,011	888	936	966	1,103	1,211
Physical sciences	964	894	972	832	893	913	944	1,021	1,058
Astronomy	23	28	27	20	28	21	33	38	55
Chemistry	631	602	646	551	559	567	593	635	639

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Physics	195	158	151	151	163	173	181	260	272
Other	115	106	148	110	143	152	137	88	92
Psychology	9,070	9,641	9,193	9,947	10,521	10,325	10,585	11,488	12,147
Social sciences	10,275	10,314	10,185	10,412	10,531	10,471	11,304	12,920	13,804
Anthropology	573	658	634	530	628	582	615	652	694
Area and ethnic studies	779	731	734	736	756	728	738	812	834
Economics	518	486	454	439	434	458	497	557	676
History of science	4	7	6	4	7	16	8	11	8
Linguistics	284	312	293	273	272	244	255	282	299
Political science and public administration	5,812	5,817	5,687	5,837	5,925	5,975	6,640	7,623	8,499
Sociology	1,075	1,035	1,044	1,252	1,165	1,180	1,162	1,211	920
Other	1,230	1,268	1,333	1,341	1,344	1,288	1,389	1,772	1,874
Engineering	3,360	3,246	3,440	3,313	3,373	3,442	3,536	3,978	4,293
Aerospace engineering	72	60	58	51	60	78	67	114	119
Chemical engineering	202	200	219	201	208	192	190	219	226
Civil engineering	836	877	898	819	787	758	787	835	914
Electrical engineering	691	614	688	690	642	715	720	874	868
Industrial engineering	445	431	470	402	507	501	519	580	614
Materials engineering	118	113	110	130	105	110	106	115	128
Mechanical engineering	341	321	345	299	311	323	287	364	389
Other	655	630	652	721	753	765	860	877	1,035
Non-S&E	179,072	188,238	194,416	209,075	214,256	222,555	235,792	257,986	265,809
White									
All fields	165,154	170,411	173,498	179,311	179,684	182,078	188,555	201,469	207,943
S&E	23,175	23,213	22,717	22,749	22,792	22,558	23,336	25,546	26,385
Sciences	20,985	21,108	20,496	20,712	20,751	20,462	21,265	23,284	23,993
Agricultural sciences	1,238	1,211	1,251	1,350	1,328	1,453	1,483	1,580	1,542
Biological sciences	2,165	2,275	2,196	2,278	2,381	2,324	2,471	2,709	2,889
Computer sciences	1,015	965	1,027	1,162	1,163	1,255	1,308	1,396	1,254
Earth, atmospheric, and ocean sciences	331	378	391	410	422	439	473	521	523
Atmospheric sciences	19	25	27	20	23	27	33	43	46
Earth sciences	275	309	329	355	365	371	394	429	426
Ocean sciences	37	44	35	35	34	41	46	49	51
Mathematics and statistics	864	860	815	753	652	683	713	775	829
Physical sciences	707	623	694	597	645	628	673	738	763
Astronomy	19	25	25	17	22	16	23	24	44
Chemistry	439	391	431	367	375	366	396	442	432
Physics	150	112	117	117	126	114	134	196	206
Other	99	95	121	96	122	132	120	76	81
Psychology	7,181	7,557	7,049	7,240	7,343	7,019	7,097	7,670	7,920
Social sciences	7,484	7,239	7,073	6,922	6,817	6,661	7,047	7,895	8,273
Anthropology	471	553	523	413	493	438	472	491	520
Area and ethnic studies	535	508	507	490	451	424	387	481	448
Economics	379	332	318	289	314	324	285	324	389
History of science	4	5	6	4	7	10	4	7	6
Linguistics	224	232	217	210	194	188	186	205	206
Political science and public administration	4,144	3,893	3,745	3,702	3,620	3,588	3,963	4,456	4,921
Sociology	772	757	753	851	788	800	794	790	586
Other	955	959	1,004	963	950	889	956	1,141	1,197
Engineering	2,190	2,105	2,221	2,037	2,041	2,096	2,071	2,262	2,392
Aerospace engineering	52	42	46	39	39	59	58	83	92
Chemical engineering	136	123	131	127	113	107	113	125	124
Civil engineering	605	648	672	593	564	545	543	584	614
Electrical engineering	340	307	299	285	276	314	289	313	278

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Industrial engineering	303	280	310	233	284	282	281	323	296
Materials engineering	85	74	75	89	75	74	72	69	81
Mechanical engineering	233	214	235	204	199	217	183	239	267
Other	436	417	453	467	491	498	532	526	640
Non-S&E	141,979	147,198	150,781	156,562	156,892	159,520	165,219	175,923	181,558
Asian/Pacific Islander									
All fields	8,404	9,327	10,298	11,307	11,802	12,292	13,251	14,639	15,713
S&E	2,428	2,575	2,678	3,045	3,033	3,001	3,318	3,735	3,948
Sciences	1,807	2,014	2,050	2,385	2,406	2,425	2,651	2,932	3,030
Agricultural sciences	61	72	40	58	63	84	63	68	76
Biological sciences	286	324	294	304	305	304	371	429	438
Computer sciences	473	530	629	860	860	812	877	939	830
Earth, atmospheric, and ocean sciences	13	15	18	10	12	16	15	20	17
Atmospheric sciences	1	2	6	2	1	4	1	2	2
Earth sciences	10	12	9	8	8	10	12	15	14
Ocean sciences	2	1	3	0	3	2	2	3	1
Mathematics and statistics	101	116	105	94	104	99	107	147	174
Physical sciences	123	125	110	98	94	98	100	84	106
Astronomy	2	0	1	2	2	2	2	4	4
Chemistry	103	106	93	79	77	71	79	57	77
Physics	16	17	11	12	10	17	13	22	20
Other	2	2	5	5	5	8	6	1	5
Psychology	244	279	289	365	372	411	418	446	455
Social sciences	506	553	565	596	596	601	700	799	934
Anthropology	18	15	23	28	29	28	25	33	30
Area and ethnic studies	51	56	54	53	62	56	74	61	80
Economics	53	69	49	67	40	51	71	71	103
History of science	0	0	0	0	0	2	2	3	0
Linguistics	29	27	33	31	34	21	26	27	31
Political science and public administration	275	278	309	304	327	328	374	443	548
Sociology	36	48	44	45	41	60	72	83	54
Other	44	60	53	68	63	55	56	78	88
Engineering	621	561	628	660	627	576	667	803	918
Aerospace engineering	7	7	4	7	8	6	3	11	10
Chemical engineering	28	28	42	34	46	38	32	50	31
Civil engineering	117	123	105	99	84	76	90	97	119
Electrical engineering	224	195	264	277	239	210	263	349	394
Industrial engineering	42	43	39	45	66	56	73	73	118
Materials engineering	18	20	21	21	17	16	21	24	18
Mechanical engineering	59	50	50	42	46	56	47	52	55
Other	126	95	103	135	121	118	138	147	173
Non-S&E	5,976	6,752	7,620	8,262	8,769	9,291	9,933	10,904	11,765
Black									
All fields	16,590	18,504	19,509	22,996	24,658	26,011	28,314	31,789	33,687
S&E	2,520	2,887	2,828	3,294	3,855	3,855	4,247	4,808	4,916
Sciences	2,310	2,662	2,584	3,087	3,609	3,590	3,966	4,524	4,634
Agricultural sciences	39	40	59	47	51	49	65	59	59
Biological sciences	122	167	122	150	221	200	190	270	279
Computer sciences	201	182	162	255	309	294	364	405	288
Earth, atmospheric, and ocean sciences	5	5	5	5	10	6	9	12	7
Atmospheric sciences	0	1	1	0	1	0	0	2	1



TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Earth sciences	4	4	4	4	8	6	9	8	5
Ocean sciences	1	0	0	1	1	0	0	2	1
Mathematics and statistics	71	79	77	52	48	64	49	52	60
Physical sciences	52	65	60	54	59	65	52	67	54
Astronomy	1	1	0	0	0	0	1	0	2
Chemistry	35	45	37	40	42	47	40	54	38
Physics	12	13	10	9	13	12	9	10	11
Other	4	6	13	5	4	6	2	3	3
Psychology	647	814	766	1,035	1,297	1,288	1,457	1,566	1,760
Social sciences	1,173	1,310	1,333	1,489	1,614	1,624	1,780	2,093	2,127
Anthropology	16	19	19	24	31	24	27	23	25
Area and ethnic studies	66	68	62	57	61	76	83	83	87
Economics	39	36	39	23	25	28	28	34	35
History of science	0	1	0	0	0	1	0	0	0
Linguistics	4	9	11	3	7	4	5	2	6
Political science and public administration	739	882	903	988	1,128	1,131	1,264	1,447	1,509
Sociology	171	154	142	234	193	188	173	203	150
Other	138	141	157	160	169	172	200	301	315
Engineering	210	225	244	207	246	265	281	284	282
Aerospace engineering	1	0	1	0	2	0	0	1	2
Chemical engineering	16	23	19	15	19	12	20	14	24
Civil engineering	42	40	45	34	41	38	43	29	37
Electrical engineering	48	47	53	40	49	50	45	58	46
Industrial engineering	43	39	48	41	50	64	71	66	66
Materials engineering	5	5	7	6	2	12	7	11	9
Mechanical engineering	17	21	28	19	26	17	19	19	15
Other	38	50	43	52	57	72	76	86	83
Non-S&E	14,070	15,617	16,681	19,702	20,803	22,156	24,067	26,981	28,771
Hispanic									
All fields	9,322	9,894	10,568	12,799	13,925	14,736	16,140	19,066	20,841
S&E	1,426	1,502	1,667	1,836	2,119	2,116	2,269	2,659	2,839
Sciences	1,258	1,326	1,489	1,635	1,898	1,864	2,043	2,349	2,524
Agricultural sciences	40	54	58	74	74	85	87	98	107
Biological sciences	109	104	95	146	168	141	160	177	229
Computer sciences	51	59	77	89	156	105	189	211	127
Earth, atmospheric, and ocean sciences	10	8	8	12	18	19	7	16	26
Atmospheric sciences	0	2	1	0	0	1	1	1	1
Earth sciences	9	5	6	10	15	17	4	15	24
Ocean sciences	1	1	1	2	3	1	2	0	1
Mathematics and statistics	33	17	39	41	32	30	41	49	60
Physical sciences	37	45	54	37	39	52	58	54	56
Astronomy	0	2	0	0	0	0	2	1	1
Chemistry	26	33	42	29	30	33	43	37	39
Physics	5	9	5	6	4	16	7	10	13
Other	6	1	7	2	5	3	6	6	3
Psychology	495	518	578	607	701	716	736	863	951
Social sciences	483	521	580	629	710	716	765	881	968
Anthropology	23	27	34	21	27	39	28	37	39
Area and ethnic studies	46	43	50	62	67	60	83	75	85
Economics	18	20	17	23	23	19	28	26	38
History of science	0	0	0	0	0	0	0	0	0
Linguistics	16	19	16	15	21	14	18	19	23
Political science and public administration	291	336	337	383	426	423	463	535	596

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Sociology	49	42	60	69	84	84	74	83	69
Other	40	34	66	56	62	77	71	106	118
Engineering	168	176	178	201	221	252	226	310	315
Aerospace engineering	0	4	5	2	3	7	2	8	7
Chemical engineering	14	19	18	15	15	18	15	16	19
Civil engineering	46	36	42	59	51	58	51	61	73
Electrical engineering	30	25	28	34	25	46	35	75	53
Industrial engineering	34	32	42	46	68	70	57	78	84
Materials engineering	9	10	5	6	3	4	1	6	14
Mechanical engineering	14	20	15	12	20	11	17	24	25
Other	21	30	23	27	36	38	48	42	40
Non-S&E	7,896	8,392	8,901	10,963	11,806	12,620	13,871	16,407	18,002
American Indian/Alaskan Native									
All fields	1,028	1,147	1,212	1,321	1,446	1,502	1,648	1,841	1,899
S&E	154	174	190	190	255	219	231	310	268
Sciences	149	167	182	174	238	202	217	283	243
Agricultural sciences	8	8	8	5	7	7	13	14	16
Biological sciences	8	14	12	12	14	20	13	24	18
Computer sciences	7	9	3	10	29	13	20	22	17
Earth, atmospheric, and ocean sciences	1	3	5	2	7	3	5	5	6
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	1	3	3	2	5	3	5	5	6
Ocean sciences	0	0	2	0	2	0	0	0	0
Mathematics and statistics	1	6	6	4	3	1	4	3	6
Physical sciences	3	2	6	3	4	6	7	4	5
Astronomy	0	0	0	0	0	0	0	0	1
Chemistry	2	1	5	3	4	6	5	2	3
Physics	1	1	1	0	0	0	1	2	1
Other	0	0	0	0	0	0	1	0	0
Psychology	56	63	76	54	77	68	73	83	87
Social sciences	65	62	66	84	97	84	82	128	88
Anthropology	7	5	8	10	7	4	5	15	8
Area and ethnic studies	14	15	9	8	14	15	22	15	15
Economics	1	4	3	2	2	4	2	3	3
History of science	0	0	0	0	0	1	0	0	0
Linguistics	1	1	2	1	1	2	1	2	5
Political science and public administration	24	20	26	33	44	40	37	69	47
Sociology	15	10	12	23	18	12	10	13	4
Other	3	7	6	7	11	6	5	11	6
Engineering	5	7	8	16	17	17	14	27	25
Aerospace engineering	2	0	0	0	0	2	0	4	0
Chemical engineering	0	0	0	1	1	1	0	0	2
Civil engineering	0	1	2	4	2	6	3	4	5
Electrical engineering	1	0	2	1	3	3	3	3	3
Industrial engineering	0	2	1	3	5	1	1	6	7
Materials engineering	0	0	0	2	1	0	0	0	0
Mechanical engineering	1	0	2	0	2	2	3	5	1
Other	1	4	1	5	3	2	4	5	7
Non-S&E	874	973	1,022	1,131	1,191	1,283	1,417	1,531	1,631
Other or unknown race/ethnicity									
All fields	9,874	10,938	11,000	14,510	17,075	20,319	24,122	29,517	27,762
S&E	1,597	1,632	1,589	2,055	2,280	2,634	2,837	3,277	3,680

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Sciences	1,431	1,460	1,428	1,863	2,059	2,398	2,560	2,985	3,319
Agricultural sciences	61	63	50	67	88	73	93	113	131
Biological sciences	120	126	131	161	159	188	226	220	272
Computer sciences	106	122	122	170	257	392	366	488	337
Earth, atmospheric, and ocean sciences	14	12	16	17	26	14	35	29	35
Atmospheric sciences	0	2	2	0	3	1	3	2	2
Earth sciences	12	8	13	17	19	12	29	24	31
Ocean sciences	2	2	1	0	4	1	3	3	2
Mathematics and statistics	77	64	58	67	49	59	52	77	82
Physical sciences	42	34	48	43	52	64	54	74	74
Astronomy	1	0	1	1	4	3	5	9	3
Chemistry	26	26	38	33	31	44	30	43	50
Physics	11	6	7	7	10	14	17	20	21
Other	4	2	2	2	7	3	2	2	0
Psychology	447	410	435	646	731	823	804	860	974
Social sciences	564	629	568	692	697	785	930	1,124	1,414
Anthropology	38	39	27	34	41	49	58	53	72
Area and ethnic studies	67	41	52	66	101	97	89	97	119
Economics	28	25	28	35	30	32	83	99	108
History of science	0	1	0	0	0	2	2	1	2
Linguistics	10	24	14	13	15	15	19	27	28
Political science and public administration	339	408	367	427	380	465	539	673	878
Sociology	32	24	33	30	41	36	39	39	57
Other	50	67	47	87	89	89	101	135	150
Engineering	166	172	161	192	221	236	277	292	361
Aerospace engineering	10	7	2	3	8	4	4	7	8
Chemical engineering	8	7	9	9	14	16	10	14	26
Civil engineering	26	29	32	30	45	35	57	60	66
Electrical engineering	48	40	42	53	50	92	85	76	94
Industrial engineering	23	35	30	34	34	28	36	34	43
Materials engineering	1	4	2	6	7	4	5	5	6
Mechanical engineering	17	16	15	22	18	20	18	25	26
Other	33	34	29	35	45	37	62	71	92
Non-S&E	8,277	9,306	9,411	12,455	14,795	17,685	21,285	26,240	24,082
Temporary resident									
All fields	18,200	19,276	20,725	22,782	25,049	26,097	28,815	29,881	29,973
S&E	6,153	6,279	6,914	8,301	9,059	9,089	10,473	11,337	11,015
Sciences	4,761	4,830	5,191	6,274	6,804	6,957	7,825	8,180	7,701
Agricultural sciences	260	247	243	218	226	246	255	324	289
Biological sciences	531	508	504	459	507	492	587	658	745
Computer sciences	997	1,112	1,394	2,322	2,734	2,628	2,967	2,734	2,225
Earth, atmospheric, and ocean sciences	62	66	51	57	69	75	68	98	98
Atmospheric sciences	15	10	15	15	12	13	17	17	18
Earth sciences	36	52	33	38	52	54	48	70	71
Ocean sciences	11	4	3	4	5	8	3	11	9
Mathematics and statistics	359	347	370	487	501	535	711	847	800
Physical sciences	486	439	468	383	408	413	380	492	471
Astronomy	4	4	3	5	8	6	9	15	7
Chemistry	367	325	352	272	266	285	236	315	300
Physics	106	97	104	93	123	113	132	153	155
Other	9	13	9	13	11	9	3	9	9
Psychology	303	277	347	346	337	347	515	462	485

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Social sciences	1,763	1,834	1,814	2,002	2,022	2,221	2,342	2,565	2,588
Anthropology	58	54	52	57	61	60	40	69	43
Area and ethnic studies	77	114	108	143	140	151	150	149	154
Economics	484	467	490	513	539	592	664	695	715
History of science	0	0	1	2	3	1	2	3	4
Linguistics	109	106	96	134	108	116	125	128	134
Political science and public administration	842	874	879	883	916	1,003	1,083	1,205	1,257
Sociology	105	107	74	135	93	135	134	147	113
Other	88	112	114	135	162	163	144	169	168
Engineering	1,392	1,449	1,723	2,027	2,255	2,132	2,648	3,157	3,314
Aerospace engineering	20	15	23	25	30	47	40	35	45
Chemical engineering	104	132	125	143	144	143	153	198	199
Civil engineering	228	222	256	256	274	305	361	376	408
Electrical engineering	505	530	688	868	1,031	846	1,182	1,511	1,602
Industrial engineering	179	173	206	246	282	294	325	326	305
Materials engineering	57	61	60	71	68	61	77	84	76
Mechanical engineering	113	98	116	156	137	145	172	199	209
Other	186	218	249	262	289	291	338	428	470
Non-S&E	12,047	12,997	13,811	14,481	15,990	17,008	18,342	18,544	18,958

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
All fields	180,360	181,457	185,061	191,234	193,006	198,097	210,758	227,335	230,057
S&E	57,860	55,223	55,335	54,213	55,593	55,701	61,199	66,798	66,974
Sciences	34,851	34,044	34,360	33,817	34,698	35,009	37,679	40,061	40,482
Agricultural sciences	2,314	2,232	2,153	2,039	1,915	2,022	1,896	1,965	1,951
Biological sciences	2,945	3,076	3,014	2,815	2,732	2,665	2,859	3,160	3,229
Computer sciences	7,763	7,510	8,338	9,661	10,833	11,083	13,157	13,658	12,742
Earth, atmospheric, and ocean sciences	1,051	948	932	832	799	834	879	869	973
Atmospheric sciences	164	135	147	119	100	95	112	112	185
Earth sciences	799	752	708	670	649	678	702	682	737
Ocean sciences	88	61	77	43	50	61	65	75	51
Mathematics and statistics	2,236	2,110	2,055	1,797	1,891	1,937	2,029	2,347	2,587
Physical sciences	2,914	2,808	2,529	2,297	2,436	2,298	2,378	2,517	2,587
Astronomy	88	61	71	77	57	85	81	97	97
Chemistry	1,275	1,341	1,175	1,085	1,184	1,014	1,001	1,106	973
Physics	1,385	1,242	1,146	1,000	1,090	1,067	1,140	1,224	1,419
Other	166	164	137	135	105	132	156	90	98
Psychology	3,670	3,715	3,606	3,415	3,477	3,369	3,369	3,348	3,444
Social sciences	11,958	11,645	11,733	10,961	10,615	10,801	11,112	12,197	12,969
Anthropology	420	399	412	363	403	375	388	377	370
Area and ethnic studies	801	742	708	650	619	618	626	656	693
Economics	1,962	1,851	1,899	1,563	1,519	1,601	1,790	1,949	2,113
History of science	6	11	15	18	16	18	15	11	17
Linguistics	208	224	179	146	172	160	145	164	178
Political science and public administration	6,716	6,677	6,585	6,315	6,088	6,205	6,392	6,938	7,598
Sociology	642	610	656	649	643	642	633	673	485
Other	1,203	1,131	1,279	1,257	1,155	1,182	1,123	1,429	1,515
Engineering	23,009	21,179	20,975	20,396	20,895	20,692	23,520	26,737	26,492
Aerospace engineering	682	550	503	484	521	557	628	721	782
Chemical engineering	1,110	1,013	1,028	1,008	1,016	932	1,022	1,089	1,081
Civil engineering	3,938	3,781	3,582	3,065	2,952	2,884	3,042	3,234	3,309
Electrical engineering	6,960	6,197	6,595	6,781	6,957	6,718	8,173	9,788	9,167
Industrial engineering	2,403	2,331	2,433	2,400	2,612	2,593	3,005	3,338	3,018
Materials engineering	599	550	528	558	536	459	537	601	586
Mechanical engineering	3,555	3,337	3,090	2,923	3,024	3,051	3,380	3,992	4,163
Other	3,762	3,420	3,216	3,177	3,277	3,498	3,733	3,974	4,386
Non-S&E	122,500	126,234	129,726	137,021	137,413	142,396	149,559	160,537	163,083
U.S. citizen/permanent resident									
All fields	150,310	151,256	153,581	158,445	156,865	160,883	168,197	182,814	187,625
S&E	42,335	40,237	39,626	37,764	37,230	37,240	39,304	42,785	44,527
Sciences	26,930	26,245	26,089	25,164	25,081	25,219	26,510	28,511	29,601
Agricultural sciences	1,916	1,821	1,798	1,741	1,670	1,789	1,636	1,643	1,644
Biological sciences	2,485	2,661	2,618	2,524	2,366	2,352	2,445	2,703	2,761
Computer sciences	4,859	4,649	4,937	5,420	5,822	6,024	7,035	7,572	7,487
Earth, atmospheric, and ocean sciences	864	777	775	694	696	710	741	709	817
Atmospheric sciences	143	111	115	96	88	80	90	85	154
Earth sciences	651	618	608	566	567	582	593	562	626
Ocean sciences	70	48	52	32	41	48	58	62	37
Mathematics and statistics	1,565	1,464	1,399	1,173	1,162	1,178	1,227	1,409	1,610
Physical sciences	1,915	1,840	1,708	1,540	1,605	1,523	1,569	1,641	1,677
Astronomy	71	46	55	60	37	56	61	64	67
Chemistry	837	899	800	758	829	693	704	749	650
Physics	887	780	731	610	645	656	670	750	876
Other	120	115	122	112	94	118	134	78	84

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Psychology	3,549	3,590	3,493	3,294	3,350	3,237	3,219	3,207	3,299
Social sciences	9,777	9,443	9,361	8,778	8,410	8,406	8,638	9,627	10,306
Anthropology	383	362	378	334	376	336	345	341	340
Area and ethnic studies	710	666	606	564	531	541	528	552	611
Economics	1,102	970	986	770	738	733	840	936	1,098
History of science	6	9	10	18	14	17	10	11	15
Linguistics	146	161	127	107	122	107	98	116	123
Political science and public administration	5,768	5,700	5,533	5,274	5,021	5,062	5,253	5,778	6,361
Sociology	572	545	578	593	579	586	582	621	429
Other	1,090	1,030	1,143	1,118	1,029	1,024	982	1,272	1,329
Engineering	15,405	13,992	13,537	12,600	12,149	12,021	12,794	14,274	14,926
Aerospace engineering	504	381	316	288	300	317	380	465	537
Chemical engineering	618	548	561	520	518	470	467	485	513
Civil engineering	2,828	2,787	2,649	2,229	1,993	1,835	1,899	1,947	2,166
Electrical engineering	4,303	3,651	3,764	3,541	3,317	3,321	3,683	4,402	4,361
Industrial engineering	1,599	1,441	1,534	1,470	1,485	1,457	1,565	1,688	1,564
Materials engineering	383	359	337	353	304	276	275	302	323
Mechanical engineering	2,465	2,281	2,078	1,913	1,911	1,891	1,952	2,266	2,458
Other	2,705	2,544	2,298	2,286	2,321	2,454	2,573	2,719	3,004
Non-S&E	107,975	111,019	113,955	120,681	119,635	123,643	128,893	140,029	143,098
White									
All fields	117,559	117,942	118,464	117,915	113,706	114,900	117,997	125,463	128,775
S&E	32,174	30,556	29,611	27,101	26,000	25,852	26,600	28,793	29,697
Sciences	20,788	20,169	19,747	18,118	17,575	17,544	17,945	19,298	19,822
Agricultural sciences	1,680	1,598	1,576	1,514	1,454	1,498	1,415	1,373	1,388
Biological sciences	1,966	2,120	2,016	1,901	1,743	1,761	1,819	1,909	1,973
Computer sciences	3,338	3,140	3,250	3,273	3,378	3,483	3,817	4,290	4,302
Earth, atmospheric, and ocean sciences	743	706	715	626	621	626	652	623	711
Atmospheric sciences	129	103	106	91	76	71	84	77	139
Earth sciences	578	564	560	506	511	519	520	492	537
Ocean sciences	36	39	49	29	34	36	48	54	35
Mathematics and statistics	1,219	1,145	1,080	902	863	872	910	1,020	1,153
Physical sciences	1,543	1,465	1,329	1,177	1,229	1,154	1,175	1,285	1,250
Astronomy	60	42	48	48	25	43	44	52	54
Chemistry	660	677	597	562	617	510	509	570	454
Physics	716	643	579	468	501	499	508	594	667
Other	107	103	105	99	86	102	114	69	75
Psychology	2,890	2,887	2,771	2,406	2,455	2,296	2,259	2,231	2,221
Social sciences	7,409	7,108	7,010	6,319	5,832	5,854	5,898	6,567	6,824
Anthropology	318	309	316	273	307	267	271	279	259
Area and ethnic studies	464	484	451	408	343	345	333	357	361
Economics	826	715	749	550	526	503	543	603	708
History of science	5	7	10	16	11	13	9	10	14
Linguistics	116	132	102	85	90	82	72	85	94
Political science and public administration	4,407	4,292	4,075	3,725	3,385	3,463	3,540	3,897	4,156
Sociology	388	373	412	403	390	383	383	412	272
Other	885	796	895	859	780	798	747	924	960
Engineering	11,386	10,387	9,864	8,983	8,425	8,308	8,655	9,495	9,875
Aerospace engineering	375	303	251	245	238	251	289	361	408
Chemical engineering	469	418	406	374	374	328	318	330	328
Civil engineering	2,244	2,194	2,105	1,744	1,566	1,386	1,452	1,505	1,631
Electrical engineering	2,825	2,430	2,411	2,189	1,968	1,994	2,144	2,499	2,528
Industrial engineering	1,176	1,080	1,096	1,005	1,006	979	1,021	1,038	930
Materials engineering	311	276	281	284	220	213	210	235	233
Mechanical engineering	1,886	1,753	1,580	1,426	1,359	1,367	1,435	1,601	1,778

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Other	2,100	1,933	1,734	1,716	1,694	1,790	1,786	1,926	2,039
Non-S&E	85,385	87,386	88,853	90,814	87,706	89,048	91,397	96,670	99,078
Asian/Pacific Islander									
All fields	8,877	8,585	9,638	10,105	10,144	10,318	10,933	12,351	12,946
S&E	3,900	3,605	3,876	3,945	4,012	3,813	4,271	4,832	4,875
Sciences	1,900	1,847	2,053	2,226	2,225	2,188	2,494	2,633	2,699
Agricultural sciences	49	31	43	36	34	42	36	43	35
Biological sciences	242	251	297	291	235	233	275	334	355
Computer sciences	810	792	950	1,168	1,193	1,192	1,407	1,391	1,363
Earth, atmospheric, and ocean sciences	24	15	12	12	16	21	13	19	14
Atmospheric sciences	5	2	5	2	4	3	3	3	2
Earth sciences	18	7	6	9	9	15	6	13	12
Ocean sciences	1	6	1	1	3	3	4	3	0
Mathematics and statistics	119	122	111	86	101	115	114	128	150
Physical sciences	144	153	138	142	126	115	131	112	138
Astronomy	5	2	3	3	3	2	5	2	3
Chemistry	77	91	79	93	76	54	78	71	77
Physics	61	56	49	41	46	49	44	38	55
Other	1	4	7	5	1	10	4	1	3
Psychology	78	85	90	107	126	115	107	134	127
Social sciences	434	398	412	384	394	355	411	472	517
Anthropology	9	10	13	11	10	6	17	10	14
Area and ethnic studies	35	35	29	25	39	36	27	32	31
Economics	91	86	78	65	73	68	85	86	82
History of science	0	0	0	0	0	0	0	0	1
Linguistics	12	10	8	11	9	5	6	10	10
Political science and public administration	225	200	225	212	207	184	226	272	306
Sociology	29	21	28	21	29	26	23	23	24
Other	33	36	31	39	27	30	27	39	49
Engineering	2,000	1,758	1,823	1,719	1,787	1,625	1,777	2,199	2,176
Aerospace engineering	41	35	31	19	29	23	39	40	45
Chemical engineering	70	59	81	80	74	58	64	85	75
Civil engineering	264	263	224	184	136	128	151	157	179
Electrical engineering	872	716	818	784	787	709	786	1,072	985
Industrial engineering	154	110	141	147	146	134	202	211	214
Materials engineering	33	42	29	33	38	27	32	29	46
Mechanical engineering	269	243	228	223	312	259	215	295	271
Other	297	290	271	249	265	287	288	310	361
Non-S&E	4,977	4,980	5,762	6,160	6,132	6,505	6,662	7,519	8,071
Black									
All fields	7,998	8,444	9,107	10,309	10,401	10,513	11,268	12,586	13,214
S&E	1,900	1,983	2,066	2,198	2,262	2,278	2,553	2,651	2,691
Sciences	1,436	1,534	1,596	1,747	1,808	1,805	2,007	2,082	2,099
Agricultural sciences	49	56	36	37	45	39	38	43	26
Biological sciences	77	69	68	73	92	88	108	115	96
Computer sciences	234	229	262	325	345	365	517	497	452
Earth, atmospheric, and ocean sciences	6	7	10	2	11	12	9	10	12
Atmospheric sciences	0	1	1	0	3	2	2	1	4
Earth sciences	5	6	9	2	7	9	4	8	8
Ocean sciences	1	0	0	0	1	1	3	1	0
Mathematics and statistics	74	75	65	46	65	49	49	63	75
Physical sciences	53	67	71	63	71	56	61	53	47

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Astronomy	0	1	0	0	0	2	0	1	0
Chemistry	30	39	42	25	40	27	36	33	17
Physics	20	26	24	35	28	25	23	17	28
Other	3	1	5	3	3	2	2	2	2
Psychology	223	245	254	311	301	343	344	357	375
Social sciences	720	786	830	890	878	853	881	944	1,016
Anthropology	12	10	7	9	6	8	6	8	5
Area and ethnic studies	32	41	42	34	25	32	39	44	48
Economics	57	60	55	48	41	48	39	36	61
History of science	0	0	0	0	1	1	0	0	0
Linguistics	3	3	1	1	7	1	2	1	3
Political science and public administration	459	504	550	597	626	586	597	610	726
Sociology	90	93	78	110	101	97	101	98	55
Other	67	75	97	91	71	80	97	147	118
Engineering	464	449	470	451	454	473	546	569	592
Aerospace engineering	9	9	6	7	8	14	8	10	17
Chemical engineering	17	12	24	19	15	19	23	17	32
Civil engineering	74	69	82	59	61	63	53	47	63
Electrical engineering	144	121	145	143	139	139	181	180	183
Industrial engineering	69	50	63	49	69	78	87	104	86
Materials engineering	4	13	6	9	7	7	7	10	10
Mechanical engineering	68	89	68	72	63	54	60	66	67
Other	79	86	76	93	92	99	127	135	134
Non-S&E	6,098	6,461	7,041	8,111	8,139	8,235	8,715	9,935	10,523
Hispanic									
All fields	6,072	6,466	6,848	8,004	8,238	8,429	9,117	10,432	10,974
S&E	1,664	1,718	1,795	1,910	1,958	1,973	2,112	2,419	2,526
Sciences	1,084	1,129	1,166	1,259	1,341	1,370	1,462	1,599	1,689
Agricultural sciences	55	51	58	59	49	90	45	73	78
Biological sciences	85	110	97	122	142	126	107	153	130
Computer sciences	137	152	142	199	284	228	366	391	335
Earth, atmospheric, and ocean sciences	17	15	12	18	10	16	21	20	21
Atmospheric sciences	1	1	1	2	0	0	1	1	2
Earth sciences	16	13	11	16	10	14	20	17	19
Ocean sciences	0	1	0	0	0	2	0	2	0
Mathematics and statistics	55	46	46	59	40	52	67	64	70
Physical sciences	63	71	75	59	80	84	86	73	88
Astronomy	4	0	0	2	1	2	0	2	1
Chemistry	20	39	42	27	44	39	47	33	45
Physics	34	27	30	28	33	40	34	34	40
Other	5	5	3	2	2	3	5	4	2
Psychology	172	200	209	230	236	237	221	222	268
Social sciences	500	484	527	513	500	537	549	603	699
Anthropology	12	10	14	16	18	20	20	21	23
Area and ethnic studies	56	48	46	45	46	61	56	42	66
Economics	46	51	46	44	30	38	51	54	73
History of science	0	1	0	0	1	0	1	0	0
Linguistics	7	5	11	3	6	5	5	7	3
Political science and public administration	302	298	314	318	310	320	337	370	427
Sociology	38	27	37	41	32	56	43	56	42
Other	39	44	59	46	57	37	36	53	65
Engineering	580	589	629	651	617	603	650	820	837
Aerospace engineering	10	16	11	11	8	12	12	13	32
Chemical engineering	29	32	28	24	25	27	24	24	22
Civil engineering	101	123	116	121	117	129	101	102	135



TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Electrical engineering	178	162	162	177	147	134	207	265	223
Industrial engineering	96	76	108	126	124	134	106	151	155
Materials engineering	12	12	10	9	19	12	5	10	12
Mechanical engineering	84	93	102	87	73	76	100	133	128
Other	70	75	92	96	104	79	95	122	130
Non-S&E	4,408	4,748	5,053	6,094	6,280	6,456	7,005	8,013	8,448
American Indian/Alaskan Native									
All fields	665	697	739	778	828	880	898	985	993
S&E	167	196	182	193	217	201	221	225	218
Sciences	116	150	136	145	174	161	165	167	161
Agricultural sciences	6	10	15	18	11	18	11	9	11
Biological sciences	9	11	9	14	15	14	18	9	11
Computer sciences	19	16	12	22	39	19	22	35	18
Earth, atmospheric, and ocean sciences	4	2	5	7	4	1	4	2	5
Atmospheric sciences	0	0	0	0	0	0	0	0	1
Earth sciences	3	2	5	7	3	1	4	2	4
Ocean sciences	1	0	0	0	1	0	0	0	0
Mathematics and statistics	4	8	3	5	6	7	4	4	3
Physical sciences	2	9	8	6	5	9	5	4	6
Astronomy	0	0	0	0	0	0	1	0	0
Chemistry	1	7	7	2	3	5	0	1	3
Physics	1	1	1	3	2	4	4	3	2
Other	0	1	0	1	0	0	0	0	1
Psychology	22	34	32	15	29	28	31	25	28
Social sciences	50	60	52	58	65	65	70	79	79
Anthropology	5	5	6	4	10	8	6	4	6
Area and ethnic studies	8	6	6	8	6	5	11	12	12
Economics	2	4	2	1	5	6	4	3	7
History of science	0	0	0	0	1	0	0	0	0
Linguistics	1	1	0	0	0	2	0	0	1
Political science and public administration	24	35	23	29	26	34	40	49	43
Sociology	5	6	7	7	10	5	7	4	3
Other	5	3	8	9	7	5	2	7	7
Engineering	51	46	46	48	43	40	56	58	57
Aerospace engineering	3	2	0	0	2	2	2	2	2
Chemical engineering	4	5	1	2	3	1	2	0	2
Civil engineering	9	9	12	10	8	5	10	12	8
Electrical engineering	14	8	7	13	7	10	15	7	17
Industrial engineering	3	4	6	5	10	7	7	13	11
Materials engineering	2	0	0	2	0	2	1	1	1
Mechanical engineering	10	10	11	7	5	4	6	16	5
Other	6	8	9	9	8	9	13	7	11
Non-S&E	498	501	557	585	611	679	677	760	775
Other or unknown race/ethnicity									
All fields	9,139	9,122	8,785	11,334	13,548	15,843	17,984	20,997	20,723
S&E	2,530	2,179	2,096	2,417	2,781	3,123	3,547	3,865	4,520
Sciences	1,606	1,416	1,391	1,669	1,958	2,151	2,437	2,732	3,131
Agricultural sciences	77	75	70	77	77	102	91	102	106
Biological sciences	106	100	131	123	139	130	118	183	196
Computer sciences	321	320	321	433	583	737	906	968	1,017
Earth, atmospheric, and ocean sciences	70	32	21	29	34	34	42	35	54
Atmospheric sciences	8	4	2	1	5	4	0	3	6
Earth sciences	31	26	17	26	27	24	39	30	46

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Ocean sciences	31	2	2	2	2	6	3	2	2
Mathematics and statistics	94	68	94	75	87	83	83	130	159
Physical sciences	110	75	87	93	94	105	111	114	148
Astronomy	2	1	4	7	8	7	11	7	9
Chemistry	49	46	33	49	49	58	34	41	54
Physics	55	27	48	35	35	39	57	64	84
Other	4	1	2	2	2	1	9	2	1
Psychology	164	139	137	225	203	218	257	238	280
Social sciences	664	607	530	614	741	742	829	962	1,171
Anthropology	27	18	22	21	25	27	25	19	33
Area and ethnic studies	115	52	32	44	72	62	62	65	93
Economics	80	54	56	62	63	70	118	154	167
History of science	1	1	0	2	0	3	0	1	0
Linguistics	7	10	5	7	10	12	13	13	12
Political science and public administration	351	371	346	393	467	475	513	580	703
Sociology	22	25	16	11	17	19	25	28	33
Other	61	76	53	74	87	74	73	102	130
Engineering	924	763	705	748	823	972	1,110	1,133	1,389
Aerospace engineering	66	16	17	6	15	15	30	39	33
Chemical engineering	29	22	21	21	27	37	36	29	54
Civil engineering	136	129	110	111	105	124	132	124	150
Electrical engineering	270	214	221	235	269	335	350	379	425
Industrial engineering	101	121	120	138	130	125	142	171	168
Materials engineering	21	16	11	16	20	15	20	17	21
Mechanical engineering	148	93	89	98	99	131	136	155	209
Other	153	152	116	123	158	190	264	219	329
Non-S&E	6,609	6,943	6,689	8,917	10,767	12,720	14,437	17,132	16,203
Temporary resident									
All fields	30,050	30,201	31,480	32,789	36,141	37,214	42,561	44,521	42,432
S&E	15,525	14,986	15,709	16,449	18,363	18,461	21,895	24,013	22,447
Sciences	7,921	7,799	8,271	8,653	9,617	9,790	11,169	11,550	10,881
Agricultural sciences	398	411	355	298	245	233	260	322	307
Biological sciences	460	415	396	291	366	313	414	457	468
Computer sciences	2,904	2,861	3,401	4,241	5,011	5,059	6,122	6,086	5,255
Earth, atmospheric, and ocean sciences	187	171	157	138	103	124	138	160	156
Atmospheric sciences	21	24	32	23	12	15	22	27	31
Earth sciences	148	134	100	104	82	96	109	120	111
Ocean sciences	18	13	25	11	9	13	7	13	14
Mathematics and statistics	671	646	656	624	729	759	802	938	977
Physical sciences	999	968	821	757	831	775	809	876	910
Astronomy	17	15	16	17	20	29	20	33	30
Chemistry	438	442	375	327	355	321	297	357	323
Physics	498	462	415	390	445	411	470	474	543
Other	46	49	15	23	11	14	22	12	14
Psychology	121	125	113	121	127	132	150	141	145
Social sciences	2,181	2,202	2,372	2,183	2,205	2,395	2,474	2,570	2,663
Anthropology	37	37	34	29	27	39	43	36	30
Area and ethnic studies	91	76	102	86	88	77	98	104	82
Economics	860	881	913	793	781	868	950	1,013	1,015
History of science	0	2	5	0	2	1	5	0	2
Linguistics	62	63	52	39	50	53	47	48	55
Political science and public administration	948	977	1,052	1,041	1,067	1,143	1,139	1,160	1,237
Sociology	70	65	78	56	64	56	51	52	56
Other	113	101	136	139	126	158	141	157	186

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1996–2005

Field, citizenship, and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Engineering	7,604	7,187	7,438	7,796	8,746	8,671	10,726	12,463	11,566
Aerospace engineering	178	169	187	196	221	240	248	256	245
Chemical engineering	492	465	467	488	498	462	555	604	568
Civil engineering	1,110	994	933	836	959	1,049	1,143	1,287	1,143
Electrical engineering	2,657	2,546	2,831	3,240	3,640	3,397	4,490	5,386	4,806
Industrial engineering	804	890	899	930	1,127	1,136	1,440	1,650	1,454
Materials engineering	216	191	191	205	232	183	262	299	263
Mechanical engineering	1,090	1,056	1,012	1,010	1,113	1,160	1,428	1,726	1,705
Other	1,057	876	918	891	956	1,044	1,160	1,255	1,382
Non-S&E	14,525	15,215	15,771	16,340	17,778	18,753	20,666	20,508	19,985

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2005

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E	
														Number
All doctorate recipients	43,354	27,974	21,570	1,038	6,368	1,136	713	1,203	3,647	3,327	4,138	6,404	15,380	
U.S. citizen	26,312	14,912	12,913	527	4,141	405	421	480	1,768	2,811	2,360	1,999	11,400	
Permanent resident	1,600	1,112	827	30	255	68	21	61	132	80	180	285	488	
Temporary resident	12,824	10,404	6,650	415	1,677	599	233	602	1,550	210	1,364	3,754	2,420	
Unknown citizenship	2,618	1,546	1,180	66	295	64	38	60	197	226	234	366	1,072	
White	24,704	14,825	12,570	569	3,720	481	460	640	1,946	2,377	2,377	2,255	9,879	
U.S. citizen	20,845	11,848	10,327	473	3,248	305	374	387	1,442	2,243	1,855	1,521	8,997	
Permanent resident	627	425	342	13	89	22	10	26	59	43	80	83	202	
Temporary resident	3,166	2,505	1,865	81	376	153	75	226	439	81	434	640	661	
Unknown citizenship	66	47	36	2	7	1	1	1	6	10	8	11	19	
Asian <sup>a</sup>	10,222	8,349	5,139	231	1,652	492	130	380	1,179	232	843	3,210	1,873	
U.S. citizen	1,493	1,114	872	13	409	52	11	38	140	110	99	242	379	
Permanent resident	688	519	356	9	127	40	7	28	56	21	68	163	169	
Temporary resident	8,003	6,688	3,898	209	1,113	399	112	314	979	99	673	2,790	1,315	
Unknown citizenship	38	28	13	0	3	1	0	0	4	2	3	15	10	
Black	2,178	945	798	40	206	21	11	38	87	175	220	147	1,233	
U.S. citizen	1,688	640	555	13	142	15	6	16	47	159	157	85	1,048	
Permanent resident	107	65	50	3	16	0	0	6	8	5	12	15	42	
Temporary resident	380	238	192	24	48	6	5	16	32	10	51	46	142	
Unknown citizenship	3	2	1	0	0	0	0	0	0	1	0	1	1	
Hispanic	2,272	1,452	1,192	109	329	31	50	56	124	198	295	260	820	
U.S. citizen	1,294	722	649	14	207	9	15	23	69	178	134	73	572	
Permanent resident	132	77	61	4	20	3	3	1	5	10	15	16	55	
Temporary resident	842	651	480	91	101	19	32	32	50	9	146	171	191	
Unknown citizenship	4	2	2	0	1	0	0	0	0	1	0	0	2	
American Indian/Alaska Native	142	69	59	3	12	1	4	0	5	15	19	10	73	
U.S. citizen	139	66	58	3	12	1	4	0	4	15	19	8	73	
Permanent resident	1	1	0	0	0	0	0	0	0	0	0	1	0	
Temporary resident	2	2	1	0	0	0	0	0	1	0	0	1	0	
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other/unknown race/ethnicity <sup>b</sup>	3,836	2,334	1,812	86	449	110	58	89	306	330	384	522	1,502	
U.S. citizen	853	522	452	11	123	23	11	16	66	106	96	70	331	
Permanent resident	45	25	18	1	3	3	1	0	4	1	5	7	20	
Temporary resident	431	320	214	10	39	22	9	14	49	11	60	106	111	
Unknown citizenship	2,507	1,467	1,128	64	284	62	37	59	187	212	223	339	1,040	
	Percent distribution													
All doctorate recipients	100.0	64.5	49.8	2.4	14.7	2.6	1.6	2.8	8.4	7.7	9.5	14.8	35.5	
U.S. citizen	100.0	56.7	49.1	2.0	15.7	1.5	1.6	1.8	6.7	10.7	9.0	7.6	43.3	

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2005

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
Permanent resident	100.0	69.5	51.7	1.9	15.9	4.3	1.3	3.8	8.3	5.0	11.3	17.8	30.5
Temporary resident	100.0	81.1	51.9	3.2	13.1	4.7	1.8	4.7	12.1	1.6	10.6	29.3	18.9
Unknown citizenship	100.0	59.1	45.1	2.5	11.3	2.4	1.5	2.3	7.5	8.6	8.9	14.0	40.9
White	100.0	60.0	50.9	2.3	15.1	1.9	1.9	2.6	7.9	9.6	9.6	9.1	40.0
U.S. citizen	100.0	56.8	49.5	2.3	15.6	1.5	1.8	1.9	6.9	10.8	8.9	7.3	43.2
Permanent resident	100.0	67.8	54.5	2.1	14.2	3.5	1.6	4.1	9.4	6.9	12.8	13.2	32.2
Temporary resident	100.0	79.1	58.9	2.6	11.9	4.8	2.4	7.1	13.9	2.6	13.7	20.2	20.9
Unknown citizenship	100.0	71.2	54.5	3.0	10.6	1.5	1.5	1.5	9.1	15.2	12.1	16.7	28.8
Asian <sup>a</sup>	100.0	81.7	50.3	2.3	16.2	4.8	1.3	3.7	11.5	2.3	8.2	31.4	18.3
U.S. citizen	100.0	74.6	58.4	0.9	27.4	3.5	0.7	2.5	9.4	7.4	6.6	16.2	25.4
Permanent resident	100.0	75.4	51.7	1.3	18.5	5.8	1.0	4.1	8.1	3.1	9.9	23.7	24.6
Temporary resident	100.0	83.6	48.7	2.6	13.9	5.0	1.4	3.9	12.2	1.2	8.4	34.9	16.4
Unknown citizenship	100.0	73.7	34.2	0.0	7.9	2.6	0.0	0.0	10.5	5.3	7.9	39.5	26.3
Black	100.0	43.4	36.6	1.8	9.5	1.0	0.5	1.7	4.0	8.0	10.1	6.7	56.6
U.S. citizen	100.0	37.9	32.9	0.8	8.4	0.9	0.4	0.9	2.8	9.4	9.3	5.0	62.1
Permanent resident	100.0	60.7	46.7	2.8	15.0	0.0	0.0	5.6	7.5	4.7	11.2	14.0	39.3
Temporary resident	100.0	62.6	50.5	6.3	12.6	1.6	1.3	4.2	8.4	2.6	13.4	12.1	37.4
Unknown citizenship	100.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	33.3
Hispanic	100.0	63.9	52.5	4.8	14.5	1.4	2.2	2.5	5.5	8.7	13.0	11.4	36.1
U.S. citizen	100.0	55.8	50.2	1.1	16.0	0.7	1.2	1.8	5.3	13.8	10.4	5.6	44.2
Permanent resident	100.0	58.3	46.2	3.0	15.2	2.3	2.3	0.8	3.8	7.6	11.4	12.1	41.7
Temporary resident	100.0	77.3	57.0	10.8	12.0	2.3	3.8	3.8	5.9	1.1	17.3	20.3	22.7
Unknown citizenship	100.0	50.0	50.0	0.0	25.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	50.0
American Indian/Alaska Native	100.0	48.6	41.5	2.1	8.5	0.7	2.8	0.0	3.5	10.6	13.4	7.0	51.4
U.S. citizen	100.0	47.5	41.7	2.2	8.6	0.7	2.9	0.0	2.9	10.8	13.7	5.8	52.5
Permanent resident	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0
Temporary resident	100.0	100.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0
Unknown citizenship	100.0	na	na	na	na	na	na	na	na	na	na	na	na
Other/unknown race/ethnicity <sup>b</sup>	100.0	60.8	47.2	2.2	11.7	2.9	1.5	2.3	8.0	8.6	10.0	13.6	39.2
U.S. citizen	100.0	61.2	53.0	1.3	14.4	2.7	1.3	1.9	7.7	12.4	11.3	8.2	38.8
Permanent resident	100.0	55.6	40.0	2.2	6.7	6.7	2.2	0.0	8.9	2.2	11.1	15.6	44.4
Temporary resident	100.0	74.2	49.7	2.3	9.0	5.1	2.1	3.2	11.4	2.6	13.9	24.6	25.8
Unknown citizenship	100.0	58.5	45.0	2.6	11.3	2.5	1.5	2.4	7.5	8.5	8.9	13.5	41.5

na = not applicable; no nonzero values in this cell.

<sup>a</sup> Excludes Native Hawaiian/other Pacific Islander per revised Office of Management and Budget guidelines.<sup>b</sup> This category was expanded to include Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).

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

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
White	14,011	13,721	13,443	12,725	11,911	12,023	12,031	12,273
Asian <sup>a</sup>	2,156	1,932	1,707	1,632	1,616	1,528	1,494	1,633
Black	643	715	710	701	687	664	751	705
Hispanic	757	722	730	669	723	744	718	799
American Indian/Alaska Native	96	114	88	73	69	73	60	67
Other/unknown race/ethnicity <sup>b</sup>	625	365	438	519	505	701	690	547
Science	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
White	11,841	11,610	11,553	10,972	10,433	10,463	10,484	10,669
Asian <sup>a</sup>	1,599	1,419	1,267	1,205	1,208	1,181	1,140	1,228
Black	562	617	629	609	602	587	657	605
Hispanic	647	639	648	578	625	640	630	710
American Indian/Alaska Native	83	102	80	67	63	61	54	58
Other/unknown race/ethnicity <sup>b</sup>	509	291	366	436	415	623	592	470
Agricultural sciences	591	561	559	506	492	562	566	557
White	454	456	452	430	417	465	470	486
Asian <sup>a</sup>	55	50	36	25	29	26	31	22
Black	21	27	22	14	13	22	20	16
Hispanic	35	16	29	26	21	25	16	18
American Indian/Alaska Native	9	1	5	0	2	4	4	3
Other/unknown race/ethnicity <sup>b</sup>	17	11	15	11	10	20	25	12
Biological sciences	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
White	3,249	3,128	3,307	3,258	3,119	3,059	3,188	3,337
Asian <sup>a</sup>	663	608	539	547	561	530	490	536
Black	111	116	118	139	124	108	149	158
Hispanic	169	174	174	165	182	176	192	227
American Indian/Alaska Native	12	20	17	15	12	11	14	12
Other/unknown race/ethnicity <sup>b</sup>	115	77	113	124	115	175	163	126
Computer sciences	563	493	458	424	420	446	447	473
White	413	356	337	322	291	308	320	327
Asian <sup>a</sup>	91	87	76	62	86	81	72	92
Black	14	19	18	15	17	17	17	15
Hispanic	15	14	14	8	14	11	13	12
American Indian/Alaska Native	4	1	1	1	2	2	2	1
Other/unknown race/ethnicity <sup>b</sup>	26	16	12	16	10	27	23	26
Earth, atmospheric, ocean sciences	533	471	474	411	433	451	438	442
White	443	387	411	354	374	379	379	384
Asian <sup>a</sup>	45	35	23	27	24	22	11	18
Black	5	11	4	5	5	13	7	6
Hispanic	17	20	16	9	14	15	11	18
American Indian/Alaska Native	3	6	4	0	0	2	4	4
Other/unknown race/ethnicity <sup>b</sup>	20	12	16	16	16	20	26	12
Atmospheric sciences	85	77	86	61	68	78	71	86
White	69	63	73	51	59	65	62	76
Asian <sup>a</sup>	9	9	6	5	5	7	5	3
Black	2	2	1	0	1	3	1	3
Hispanic	1	3	2	1	2	0	0	3
American Indian/Alaska Native	0	0	0	0	0	0	1	1
Other/unknown race/ethnicity <sup>b</sup>	4	0	4	4	1	3	2	0
Earth sciences	349	295	271	260	263	256	271	256
White	291	242	235	224	231	222	225	220
Asian <sup>a</sup>	29	20	13	18	11	10	6	12
Black	3	6	1	2	3	4	5	2
Hispanic	10	11	8	7	6	4	10	9
American Indian/Alaska Native	3	6	4	0	0	1	3	3
Other/unknown race/ethnicity <sup>b</sup>	13	10	10	9	12	15	22	10

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Ocean sciences	99	99	117	90	102	117	96	100
White	83	82	103	79	84	92	92	88
Asian <sup>a</sup>	7	6	4	4	8	5	0	3
Black	0	3	2	3	1	6	1	1
Hispanic	6	6	6	1	6	11	1	6
American Indian/Alaska Native	0	0	0	0	0	1	0	0
Other/unknown race/ethnicity <sup>b</sup>	3	2	2	3	3	2	2	2
Mathematics and statistics	673	605	574	526	443	517	511	541
White	528	506	464	428	370	407	399	413
Asian <sup>a</sup>	72	56	70	50	28	51	54	66
Black	16	12	14	19	14	16	10	22
Hispanic	27	15	15	15	12	17	26	24
American Indian/Alaska Native	3	1	2	2	3	2	0	0
Other/unknown race/ethnicity <sup>b</sup>	27	15	9	12	16	24	22	16
Physical sciences	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
White	1,901	1,829	1,674	1,636	1,533	1,537	1,468	1,501
Asian <sup>a</sup>	334	252	202	200	193	184	164	196
Black	56	66	61	55	67	55	60	55
Hispanic	54	63	77	65	63	72	62	74
American Indian/Alaska Native	9	9	9	12	7	2	5	4
Other/unknown race/ethnicity <sup>b</sup>	88	46	49	67	60	101	99	70
Astronomy	147	117	139	124	106	130	115	120
White	120	109	115	104	86	104	93	100
Asian <sup>a</sup>	13	3	13	6	11	8	8	7
Black	1	2	1	1	1	1	0	2
Hispanic	2	1	3	7	4	3	6	3
American Indian/Alaska Native	1	1	1	1	0	0	0	0
Other/unknown race/ethnicity <sup>b</sup>	10	1	6	5	4	14	8	8
Chemistry	1,471	1,406	1,241	1,233	1,228	1,266	1,184	1,213
White	1,129	1,090	988	974	986	1,003	922	956
Asian <sup>a</sup>	210	183	121	126	122	112	112	125
Black	45	56	44	42	44	42	47	41
Hispanic	34	46	51	43	38	45	43	55
American Indian/Alaska Native	7	5	7	11	5	2	4	2
Other/unknown race/ethnicity <sup>b</sup>	46	26	30	37	33	62	56	34
Physics	824	742	692	678	589	555	559	567
White	652	630	571	558	461	430	453	445
Asian <sup>a</sup>	111	66	68	68	60	64	44	64
Black	10	8	16	12	22	12	13	12
Hispanic	18	16	23	15	21	24	13	16
American Indian/Alaska Native	1	3	1	0	2	0	1	2
Other/unknown race/ethnicity <sup>b</sup>	32	19	13	25	23	25	35	28
Psychology	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
White	2,646	2,701	2,606	2,410	2,228	2,260	2,137	2,286
Asian <sup>a</sup>	113	132	145	114	120	119	152	131
Black	158	172	189	172	170	169	206	164
Hispanic	208	216	211	169	184	170	172	188
American Indian/Alaska Native	31	35	22	17	15	22	12	15
Other/unknown race/ethnicity <sup>b</sup>	118	37	57	95	76	115	109	107

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
White	2,207	2,247	2,302	2,134	2,101	2,048	2,123	1,935
Asian <sup>a</sup>	226	199	176	180	167	168	166	167
Black	181	194	203	190	192	187	188	169
Hispanic	122	121	112	121	135	154	138	149
American Indian/Alaska Native	12	29	20	20	22	16	13	19
Other/unknown race/ethnicity <sup>b</sup>	98	77	95	95	112	141	125	101
Anthropology	380	400	411	369	430	422	471	392
White	298	330	337	290	333	310	364	306
Asian <sup>a</sup>	18	18	19	19	14	18	23	22
Black	10	15	21	13	24	24	17	23
Hispanic	21	12	13	20	25	34	37	19
American Indian/Alaska Native	5	8	5	8	7	2	2	3
Other/unknown race/ethnicity <sup>b</sup>	28	17	16	19	27	34	28	19
Area and ethnic studies	104	94	118	132	103	93	119	98
White	79	69	93	99	74	60	75	64
Asian <sup>a</sup>	2	4	5	4	2	5	5	5
Black	17	13	11	17	13	12	12	11
Hispanic	4	3	5	5	6	8	12	11
American Indian/Alaska Native	1	3	1	2	2	2	3	2
Other/unknown race/ethnicity <sup>b</sup>	1	2	3	5	6	6	12	5
Economics	583	543	501	464	426	408	401	385
White	429	417	395	359	328	313	309	292
Asian <sup>a</sup>	88	65	48	59	56	55	42	43
Black	23	28	22	13	13	11	24	10
Hispanic	27	21	22	18	16	17	11	27
American Indian/Alaska Native	0	1	1	2	0	1	0	1
Other/unknown race/ethnicity <sup>b</sup>	16	11	13	13	13	11	15	12
History of science	36	42	35	39	40	36	42	33
White	32	36	32	31	38	31	33	26
Asian <sup>a</sup>	0	3	0	3	0	0	2	2
Black	0	1	1	1	0	0	1	1
Hispanic	1	0	1	2	1	1	2	2
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity <sup>b</sup>	3	2	1	2	1	4	4	2
Linguistics	136	156	119	124	108	114	136	115
White	103	123	98	97	84	86	105	93
Asian <sup>a</sup>	22	13	11	9	10	12	14	11
Black	4	4	1	6	3	0	3	1
Hispanic	6	13	5	5	7	9	9	4
American Indian/Alaska Native	0	1	0	0	0	1	0	0
Other/unknown race/ethnicity <sup>b</sup>	1	2	4	7	4	6	5	6
Political science and public administration	791	806	802	751	732	766	732	723
White	632	641	637	587	576	595	575	572
Asian <sup>a</sup>	43	45	38	36	33	30	38	33
Black	55	59	61	71	63	70	64	56
Hispanic	35	31	28	23	36	32	31	35
American Indian/Alaska Native	3	7	4	5	3	7	2	4
Other/unknown race/ethnicity <sup>b</sup>	23	23	34	29	21	32	22	23
Sociology	443	459	515	471	478	487	467	425
White	345	346	383	351	350	348	359	302
Asian <sup>a</sup>	24	30	32	27	29	22	28	30
Black	40	45	57	44	47	47	37	41
Hispanic	15	26	26	38	25	40	27	34
American Indian/Alaska Native	3	4	6	2	7	0	2	4
Other/unknown race/ethnicity <sup>b</sup>	16	8	11	9	20	30	14	14



TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Other	373	367	407	390	412	388	385	369
White	289	285	327	320	318	305	303	280
Asian <sup>a</sup>	29	21	23	23	23	26	14	21
Black	32	29	29	25	29	23	30	26
Hispanic	13	15	12	10	19	13	9	17
American Indian/Alaska Native	0	5	3	1	3	3	4	5
Other/unknown race/ethnicity <sup>b</sup>	10	12	13	11	20	18	25	20
Engineering	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
White	2,170	2,111	1,890	1,753	1,478	1,560	1,547	1,604
Asian <sup>a</sup>	557	513	440	427	408	347	354	405
Black	81	98	81	92	85	77	94	100
Hispanic	110	83	82	91	98	104	88	89
American Indian/Alaska Native	13	12	8	6	6	12	6	9
Other/unknown race/ethnicity <sup>b</sup>	116	74	72	83	90	78	98	77
Aerospace engineering	153	112	127	102	92	80	77	98
White	126	97	107	79	74	66	60	74
Asian <sup>a</sup>	13	13	11	12	11	7	9	9
Black	1	1	4	1	2	1	1	2
Hispanic	5	0	3	5	3	4	3	6
American Indian/Alaska Native	0	0	0	0	0	0	0	1
Other/unknown race/ethnicity <sup>b</sup>	8	1	2	5	2	2	4	6
Chemical engineering	374	371	383	362	335	292	314	331
White	275	286	280	273	223	210	218	237
Asian <sup>a</sup>	65	58	70	53	70	46	58	46
Black	3	11	8	17	12	9	10	14
Hispanic	13	7	18	7	16	16	12	21
American Indian/Alaska Native	3	2	1	1	1	1	2	0
Other/unknown race/ethnicity <sup>b</sup>	15	7	6	11	13	10	14	13
Civil engineering	297	312	261	270	248	269	224	252
White	217	241	194	194	185	217	156	191
Asian <sup>a</sup>	38	46	43	38	29	20	34	33
Black	9	6	6	11	13	9	7	9
Hispanic	16	12	9	9	9	13	20	11
American Indian/Alaska Native	0	2	1	0	0	1	3	0
Other/unknown race/ethnicity <sup>b</sup>	17	5	8	18	12	9	4	8
Electrical engineering	805	766	649	564	506	502	500	566
White	523	510	444	368	304	296	314	352
Asian <sup>a</sup>	206	172	141	137	131	134	109	144
Black	23	30	21	22	16	21	33	31
Hispanic	31	30	22	22	31	23	15	15
American Indian/Alaska Native	3	1	0	1	0	5	1	3
Other/unknown race/ethnicity <sup>b</sup>	19	23	21	14	24	23	28	21
Industrial engineering	101	99	77	89	81	71	77	76
White	72	80	59	54	56	47	56	49
Asian <sup>a</sup>	11	7	11	22	10	14	10	15
Black	8	7	4	6	4	3	3	8
Hispanic	7	4	0	3	6	4	3	2
American Indian/Alaska Native	0	0	0	0	1	0	0	0
Other/unknown race/ethnicity <sup>b</sup>	3	1	3	4	4	3	5	2
Materials engineering	313	261	244	225	175	200	211	194
White	225	184	190	165	123	154	160	148
Asian <sup>a</sup>	55	53	34	37	33	23	31	28
Black	10	7	5	6	5	4	6	5
Hispanic	8	8	8	9	7	13	7	10
American Indian/Alaska Native	2	2	0	1	1	0	0	0
Other/unknown race/ethnicity <sup>b</sup>	13	7	7	7	6	6	7	3

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	517	464	396	428	343	333	298	323
White	371	336	279	302	227	246	210	237
Asian <sup>a</sup>	91	88	72	75	70	51	47	50
Black	13	12	18	17	17	9	17	11
Hispanic	19	9	12	21	12	13	10	13
American Indian/Alaska Native	2	2	3	1	1	1	0	4
Other/unknown race/ethnicity <sup>b</sup>	21	17	12	12	16	13	14	8
Other	487	506	436	412	385	431	486	444
White	361	377	337	318	286	324	373	316
Asian <sup>a</sup>	78	76	58	53	54	52	56	80
Black	14	24	15	12	16	21	17	20
Hispanic	11	13	10	15	14	18	18	11
American Indian/Alaska Native	3	3	3	2	2	4	0	1
Other/unknown race/ethnicity <sup>b</sup>	20	13	13	12	13	12	22	16

<sup>a</sup> Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2005 per revised Office of Management and Budget guidelines.

<sup>b</sup> Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998–2005.

TABLE F-7. Top baccalaureate institutions of black S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	4,467
Foreign institutions	967
Unknown	168
Top 50 U.S.	1,401
Howard University	96
Spelman College	75
Hampton University	69
Florida Agricultural and Mechanical University	58
Morehouse College	52
North Carolina Agricultural & Technical State University	41
Southern University A&M College at Baton Rouge	41
Xavier University of Louisiana	38
Harvard University	37
University of Maryland at College Park	35
Morgan State University	34
Jackson State University	33
Tuskegee University	33
University of California-Berkeley	32
Massachusetts Institute of Technology	31
Yale University	31
University of Michigan at Ann Arbor	30
University of North Carolina at Chapel Hill	26
Prairie View A&M University	24
University of Illinois at Urbana-Champaign	24
University of Virginia main campus	24
Princeton University	23
Brown University	21
Clark Atlanta University	21
University of Maryland Baltimore County	21
Alabama Agricultural and Mechanical University	20
Georgia Institute of Technology main campus	20
Norfolk State University	20
Stanford University	20
Tougaloo College	20
University of California-Los Angeles	20
University of Pennsylvania	20
Cornell University all campuses	19
Fisk University	19
North Carolina State University at Raleigh	19
Duke University	18
Louisiana State University and Agricultural & Mechanical College	18
Purdue University main campus	18
Tulane University	18
CUNY City College	17
Oakwood College	17
Pennsylvania State University main campus	17
Texas A&M University main campus	17
University of South Carolina at Columbia	17
University of Texas at Austin	17
Alabama State University	16
Grambling State University	16
North Carolina Central University	16
Tennessee State University	16
University of Florida	16
Other U.S.	1,931

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-8. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	6,506
Foreign	2,758
Unknown	375
Top 51 U.S.	1,871
University of Puerto Rico Rio Piedras campus	230
University of Puerto Rico Mayaguez campus	144
University of California-Berkeley	102
University of Texas at Austin	65
Florida International University	64
University of California-Los Angeles	63
University of Florida	62
Massachusetts Institute of Technology	54
University of California-San Diego	47
University of Miami	45
University of Texas at El Paso	44
University of California-Davis	43
Cornell University all campuses	42
Texas A&M University main campus	40
University of California-Irvine	40
University of New Mexico all campuses	38
Harvard University	37
Stanford University	36
New Mexico State University all campuses	34
University of Michigan at Ann Arbor	32
University of Illinois at Urbana-Champaign	31
Rutgers the State University of New Jersey New Brunswick	29
University of Arizona	29
Princeton University	28
University of California-Santa Cruz	28
University of Texas at San Antonio	25
University of California-Santa Barbara	24
University of Puerto Rico Humacao University College	23
University of Houston	22
California State Polytechnic University-San Luis Obispo	21
Florida State University	21
California State University-Long Beach	20
San Diego State University	20
Arizona State University main campus	19
CUNY City College	19
Columbia University in the City of New York	19
San Francisco State University	18
St Mary's University	18
University of Maryland at College Park	18
California State University-Los Angeles	16
University of Colorado at Boulder	16
California Institute of Technology	15
California State University-Northridge	15
University of California-Riverside	15
University of Puerto Rico Cayey University College	15
University of South Florida	15
Brown University	14
New York University	14
Pennsylvania State University main campus	14
SUNY at Binghamton	14
University of Southern California	14
Other U.S.	1,502

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-8. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2000–2004

Academic institution	Doctorates
University of Puerto Rico Cayey University College	14
University of Southern California	14
University of Washington-Seattle	14
Other U.S.	1,386

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-9. Top baccalaureate institutions of American Indian/Alaska Native S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	360
Foreign	19
Unknown	14
Top 24 U.S.	92
University of Oklahoma, Norman campus	7
Oklahoma State University all campuses	6
University of Central Oklahoma	6
University of Florida	6
University of Washington-Seattle	6
Dartmouth College	4
University of California-Davis	4
University of Michigan at Ann Arbor	4
University of North Dakota all campuses	4
Arizona State University main campus	3
Baylor University	3
Colorado State University	3
East Central University	3
Pennsylvania State University main campus	3
San Jose State University	3
University of Akron all campuses	3
University of California-San Diego	3
University of California-Santa Barbara	3
University of Houston	3
University of New Mexico all campuses	3
University of Oregon	3
University of Texas at Austin	3
University of Tulsa	3
University of Utah	3
Other U.S.	235

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-10. Top baccalaureate institutions of Asian S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	34,917
Foreign	27,186
Unknown	1,334
Top 50 U.S.	3,896
University of California-Berkeley	474
University of California-Los Angeles	240
Massachusetts Institute of Technology	236
Harvard University	188
Cornell University all campuses	174
Stanford University	138
University of California-Davis	113
University of California-San Diego	109
University of Texas at Austin	107
University of Michigan at Ann Arbor	97
University of California-Irvine	96
University of Illinois at Urbana-Champaign	95
California Institute of Technology	84
University of Chicago	78
University of Maryland at College Park	78
Princeton University	73
University of Pennsylvania	73
University of Wisconsin-Madison	70
Yale University	70
University of Washington-Seattle	68
Rutgers the State University of New Jersey New Brunswick	65
Johns Hopkins University	64
Northwestern University	61
Columbia University in the City of New York	60
Brown University	52
SUNY at Stony Brook all campuses	51
Carnegie Mellon University	47
University of Minnesota-Twin Cities	46
University of Southern California	46
Boston University	45
University of Hawaii at Manoa	43
New York University	41
Purdue University main campus	41
Rice University	40
University of Rochester	40
University of Virginia main campus	40
Duke University	39
Ohio State University main campus	39
Pennsylvania State University main campus	39
Rensselaer Polytechnic Institute	37
University of Florida	33
Iowa State University	32
Wellesley College	32
Washington University	31
Brandeis University	30
Texas A&M University main campus	30
Pomona College	28
University of Arizona	28
University of California-Riverside	28
Georgia Institute of Technology main campus	27
Other U.S.	2,501

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
Female	7,184	7,073	7,134	6,872	6,702	6,830	6,853	7,138
Male	11,087	10,496	9,980	9,447	8,808	8,903	8,891	8,884
Unknown	17	0	2	0	1	0	0	2
White	14,011	13,721	13,443	12,725	11,911	12,023	12,031	12,273
Female	5,497	5,458	5,511	5,250	5,038	5,131	5,098	5,319
Male	8,514	8,263	7,932	7,475	6,872	6,892	6,933	6,954
Unknown	0	0	0	0	1	0	0	0
Asian <sup>a</sup>	2,156	1,932	1,707	1,632	1,616	1,528	1,494	1,633
Female	767	715	680	683	677	645	677	745
Male	1,383	1,217	1,027	949	939	883	817	887
Unknown	6	0	0	0	0	0	0	1
Black	643	715	710	701	687	664	751	705
Female	351	368	391	373	371	378	422	395
Male	292	347	319	328	316	286	329	310
Hispanic	757	722	730	669	723	744	718	799
Female	326	362	350	333	379	366	363	406
Male	431	360	379	336	344	378	355	393
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	96	114	88	73	69	73	60	67
Female	42	55	45	32	33	39	27	32
Male	54	59	43	41	36	34	33	35
Other/unknown race/ethnicity <sup>b</sup>	625	365	438	519	505	701	690	547
Female	201	115	157	201	204	271	266	241
Male	413	250	280	318	301	430	424	305
Unknown	11	0	1	0	0	0	0	1
Science	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
Female	6,732	6,580	6,642	6,392	6,259	6,389	6,381	6,660
Male	8,498	8,098	7,899	7,475	7,086	7,166	7,176	7,079
Unknown	11	0	2	0	1	0	0	1
White	11,841	11,610	11,553	10,972	10,433	10,463	10,484	10,669
Female	5,190	5,106	5,177	4,932	4,761	4,830	4,781	5,024
Male	6,651	6,504	6,376	6,040	5,671	5,633	5,703	5,645
Unknown	0	0	0	0	1	0	0	0
Asian <sup>a</sup>	1,599	1,419	1,267	1,205	1,208	1,181	1,140	1,228
Female	670	630	570	584	579	564	593	645
Male	926	789	697	621	629	617	547	582
Unknown	3	0	0	0	0	0	0	1
Black	562	617	629	609	602	587	657	605
Female	329	344	367	348	343	359	388	369
Male	233	273	262	261	259	228	269	236
Hispanic	647	639	648	578	625	640	630	710
Female	313	339	337	310	354	343	342	377
Male	334	300	310	268	271	297	288	333
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	83	102	80	67	63	61	54	58
Female	38	53	41	30	33	36	25	31
Male	45	49	39	37	30	25	29	27
Other/unknown race/ethnicity <sup>b</sup>	509	291	366	436	415	623	592	470
Female	192	108	150	188	189	257	252	214
Male	309	183	215	248	226	366	340	256
Unknown	8	0	1	0	0	0	0	0
Agricultural sciences	591	561	559	506	492	562	566	557
Female	205	185	195	195	181	200	226	224
Male	386	376	364	311	310	362	340	333
Unknown	0	0	0	0	1	0	0	0



TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
White	454	456	452	430	417	465	470	486
Female	154	147	158	157	150	157	171	181
Male	300	309	294	273	266	308	299	305
Unknown	0	0	0	0	1	0	0	0
Asian <sup>a</sup>	55	50	36	25	29	26	31	22
Female	25	19	12	13	15	16	23	13
Male	30	31	24	12	14	10	8	9
Black	21	27	22	14	13	22	20	16
Female	5	9	11	6	5	8	11	12
Male	16	18	11	8	8	14	9	4
Hispanic	35	16	29	26	21	25	16	18
Female	13	7	11	14	8	11	11	10
Male	22	9	18	12	13	14	5	8
American Indian/Alaska Native	9	1	5	0	2	4	4	3
Female	2	0	1	0	0	1	2	2
Male	7	1	4	0	2	3	2	1
Other/unknown race/ethnicity <sup>b</sup>	17	11	15	11	10	20	25	12
Female	6	3	2	5	3	7	8	6
Male	11	8	13	6	7	13	17	6
Biological sciences	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
Female	1,925	1,864	1,988	1,973	1,918	1,918	2,006	2,168
Male	2,392	2,259	2,280	2,275	2,195	2,141	2,190	2,227
Unknown	2	0	0	0	0	0	0	1
White	3,249	3,128	3,307	3,258	3,119	3,059	3,188	3,337
Female	1,438	1,402	1,510	1,488	1,392	1,449	1,467	1,607
Male	1,811	1,726	1,797	1,770	1,727	1,610	1,721	1,730
Asian <sup>a</sup>	663	608	539	547	561	530	490	536
Female	292	276	263	267	290	254	260	284
Male	370	332	276	280	271	276	230	251
Unknown	1	0	0	0	0	0	0	1
Black	111	116	118	139	124	108	149	158
Female	70	66	74	84	67	64	89	100
Male	41	50	44	55	57	44	60	58
Hispanic	169	174	174	165	182	176	192	227
Female	79	76	92	77	114	80	108	113
Male	90	98	82	88	68	96	84	114
American Indian/Alaska Native	12	20	17	15	12	11	14	12
Female	6	10	7	7	6	8	4	6
Male	6	10	10	8	6	3	10	6
Other/unknown race/ethnicity <sup>b</sup>	115	77	113	124	115	175	163	126
Female	40	34	42	50	49	63	78	58
Male	74	43	71	74	66	112	85	68
Unknown	1	0	0	0	0	0	0	0
Computer sciences	563	493	458	424	420	446	447	473
Female	123	106	86	98	97	99	102	105
Male	439	387	372	326	323	347	345	368
Unknown	1	0	0	0	0	0	0	0
White	413	356	337	322	291	308	320	327
Female	84	71	62	60	59	65	70	61
Male	329	285	275	262	232	243	250	266
Asian <sup>a</sup>	91	87	76	62	86	81	72	92
Female	23	19	15	20	26	17	19	27
Male	68	68	61	42	60	64	53	65
Black	14	19	18	15	17	17	17	15
Female	8	10	5	10	7	5	5	8

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Male	6	9	13	5	10	12	12	7
Hispanic	15	14	14	8	14	11	13	12
Female	1	3	3	4	2	5	3	3
Male	14	11	11	4	12	6	10	9
American Indian/Alaska Native	4	1	1	1	2	2	2	1
Female	0	1	0	0	0	0	0	0
Male	4	0	1	1	2	2	2	1
Other/unknown race/ethnicity <sup>b</sup>	26	16	12	16	10	27	23	26
Female	7	2	1	4	3	7	5	6
Male	18	14	11	12	7	20	18	20
Unknown	1	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	533	471	474	411	433	451	438	442
Female	157	135	145	138	163	153	175	164
Male	376	336	329	273	270	298	263	278
White	443	387	411	354	374	379	379	384
Female	133	110	124	122	140	123	152	138
Male	310	277	287	232	234	256	227	246
Asian <sup>a</sup>	45	35	23	27	24	22	11	18
Female	13	10	9	7	10	8	4	9
Male	32	25	14	20	14	14	7	9
Black	5	11	4	5	5	13	7	6
Female	1	4	1	2	0	7	1	1
Male	4	7	3	3	5	6	6	5
Hispanic	17	20	16	9	14	15	11	18
Female	6	4	3	5	2	6	5	8
Male	11	16	13	4	12	9	6	10
American Indian/Alaska Native	3	6	4	0	0	2	4	4
Female	1	3	1	0	0	1	0	3
Male	2	3	3	0	0	1	4	1
Other/unknown race/ethnicity <sup>b</sup>	20	12	16	16	16	20	26	12
Female	3	4	7	2	11	8	13	5
Male	17	8	9	14	5	12	13	7
Mathematics and statistics	673	605	574	526	443	517	511	541
Female	199	192	164	155	135	152	154	151
Male	473	413	409	371	308	365	357	390
Unknown	1	0	1	0	0	0	0	0
White	528	506	464	428	370	407	399	413
Female	150	159	126	120	112	110	125	106
Male	378	347	338	308	258	297	274	307
Asian <sup>a</sup>	72	56	70	50	28	51	54	66
Female	27	20	21	17	5	24	17	28
Male	45	36	49	33	23	27	37	38
Black	16	12	14	19	14	16	10	22
Female	7	6	7	7	8	5	3	7
Male	9	6	7	12	6	11	7	15
Hispanic	27	15	15	15	12	17	26	24
Female	7	5	7	5	4	7	7	6
Male	20	10	8	10	8	10	19	18

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
American Indian/Alaska Native	3	1	2	2	3	2	0	0
Female	2	0	1	1	1	1	0	0
Male	1	1	1	1	2	1	0	0
Other/unknown race/ethnicity <sup>b</sup>	27	15	9	12	16	24	22	16
Female	6	2	2	5	5	5	2	4
Male	20	13	6	7	11	19	20	12
Unknown	1	0	1	0	0	0	0	0
Physical sciences	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
Female	599	547	540	523	530	561	502	562
Male	1,841	1,718	1,532	1,512	1,393	1,390	1,356	1,338
Unknown	2	0	0	0	0	0	0	0
White	1,901	1,829	1,674	1,636	1,533	1,537	1,468	1501
Female	442	391	414	391	409	421	382	430
Male	1,459	1,438	1,260	1,245	1,124	1,116	1,086	1071
Asian <sup>a</sup>	334	252	202	200	193	184	164	196
Female	103	93	70	73	61	72	53	66
Male	229	159	132	127	132	112	111	130
Unknown	2	0	0	0	0	0	0	0
Black	56	66	61	55	67	55	60	55
Female	31	29	21	20	28	19	25	17
Male	25	37	40	35	39	36	35	38
Hispanic	54	63	77	65	63	72	62	74
Female	11	22	25	22	22	23	24	32
Male	43	41	52	43	41	49	38	42
American Indian/Alaska Native	9	9	9	12	7	2	5	4
Female	1	3	2	2	0	1	1	0
Male	8	6	7	10	7	1	4	4
Other/unknown race/ethnicity <sup>b</sup>	88	46	49	67	60	101	99	70
Female	11	9	8	15	10	25	17	17
Male	77	37	41	52	50	76	82	53
Psychology	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
Female	2,212	2,229	2,178	2,004	1,879	1,964	1,891	1,990
Male	1,058	1,064	1,051	973	914	891	897	901
Unknown	4	0	1	0	0	0	0	0
White	2,646	2,701	2,606	2,410	2,228	2,260	2,137	2286
Female	1,764	1,789	1,725	1,594	1,481	1,550	1,405	1552
Male	882	912	881	816	747	710	732	734
Asian <sup>a</sup>	113	132	145	114	120	119	152	131
Female	84	98	99	89	81	81	126	105
Male	29	34	46	25	39	38	26	26
Black	158	172	189	172	170	169	206	164
Female	115	135	144	122	128	126	156	126
Male	43	37	45	50	42	43	50	38
Hispanic	208	216	211	169	184	170	172	188
Female	152	158	151	123	129	116	116	126
Male	56	58	59	46	55	54	56	62
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	31	35	22	17	15	22	12	15
Female	18	23	19	12	8	14	9	9
Male	13	12	3	5	7	8	3	6
Other/unknown race/ethnicity <sup>b</sup>	118	37	57	95	76	115	109	107
Female	79	26	40	64	52	77	79	72
Male	35	11	17	31	24	38	30	35
Unknown	4	0	0	0	0	0	0	0

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
Female	1,312	1,322	1,346	1,306	1,356	1,342	1,325	1,296
Male	1,533	1,545	1,562	1,434	1,373	1,372	1,428	1,244
Unknown	1	0	0	0	0	0	0	0
White	2,207	2,247	2,302	2,134	2,101	2,048	2,123	1,935
Female	1,025	1,037	1,058	1,000	1,018	955	1,009	949
Male	1,182	1,210	1,244	1,134	1,083	1,093	1,114	986
Asian <sup>a</sup>	226	199	176	180	167	168	166	167
Female	103	95	81	98	91	92	91	113
Male	123	104	95	82	76	76	75	54
Black	181	194	203	190	192	187	188	169
Female	92	85	104	97	100	125	98	98
Male	89	109	99	93	92	62	90	71
Hispanic	122	121	112	121	135	154	138	149
Female	44	64	45	60	73	95	68	79
Male	78	57	67	61	62	59	70	70
American Indian/Alaska Native	12	29	20	20	22	16	13	19
Female	8	13	10	8	18	10	9	11
Male	4	16	10	12	4	6	4	8
Other/unknown race/ethnicity <sup>b</sup>	98	77	95	95	112	141	125	101
Female	40	28	48	43	56	65	50	46
Male	57	49	47	52	56	76	75	55
Unknown	1	0	0	0	0	0	0	0
Engineering	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
Female	452	493	492	480	443	441	472	478
Male	2,589	2,398	2,081	1,972	1,722	1,737	1,715	1,805
Unknown	6	0	0	0	0	0	0	1
White	2,170	2,111	1,890	1,753	1,478	1,560	1,547	1,604
Female	307	352	334	318	277	301	317	295
Male	1,863	1,759	1,556	1,435	1,201	1,259	1,230	1,309
Asian <sup>a</sup>	557	513	440	427	408	347	354	405
Female	97	85	110	99	98	81	84	100
Male	457	428	330	328	310	266	270	305
Unknown	3	0	0	0	0	0	0	0
Black	81	98	81	92	85	77	94	100
Female	22	24	24	25	28	19	34	26
Male	59	74	57	67	57	58	60	74
Hispanic	110	83	82	91	98	104	88	89
Female	13	23	13	23	25	23	21	29
Male	97	60	69	68	73	81	67	60
American Indian/Alaska Native	13	12	8	6	6	12	6	9
Female	4	2	4	2	0	3	2	1
Male	9	10	4	4	6	9	4	8
Other/unknown race/ethnicity <sup>b</sup>	116	74	72	83	90	78	98	77
Female	9	7	7	13	15	14	14	27
Male	104	67	65	70	75	64	84	49
Unknown	3	0	0	0	0	0	0	1

<sup>a</sup> Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2005 per revised Office of Management and Budget guidelines.

<sup>b</sup> Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998-2005.

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2005  
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	White	Asian <sup>a</sup>	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity <sup>b</sup>
Female (number)	7,138	5,319	745	395	406	32	241
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	93.3	94.5	86.6	93.4	92.9	96.9	88.8
Agricultural sciences	3.1	3.4	1.7	3.0	2.5	6.3	2.5
Biological sciences	30.4	30.2	38.1	25.3	27.8	18.8	24.1
Computer sciences	1.5	1.1	3.6	2.0	0.7	0.0	2.5
Earth, atmospheric, and ocean sciences	2.3	2.6	1.2	0.3	2.0	9.4	2.1
Atmospheric sciences	0.4	0.5	0.1	0.0	0.5	0.0	0.0
Earth sciences	1.3	1.4	0.7	0.3	1.0	9.4	1.7
Ocean sciences	0.6	0.7	0.4	0.0	0.5	0.0	0.4
Mathematics and statistics	2.1	2.0	3.8	1.8	1.5	0.0	1.7
Physical sciences	7.9	8.1	8.9	4.3	7.9	0.0	7.1
Astronomy	0.5	0.5	0.3	0.0	0.5	0.0	0.8
Chemistry	6.2	6.4	6.8	3.8	7.1	0.0	5.0
Physics	1.1	1.2	1.7	0.5	0.2	0.0	1.2
Psychology	27.9	29.2	14.1	31.9	31.0	28.1	29.9
Social sciences	18.2	17.8	15.2	24.8	19.5	34.4	19.1
Anthropology	3.3	3.4	2.3	4.1	2.5	6.3	2.9
Area/ethnic studies	0.7	0.6	0.3	1.5	2.2	3.1	1.2
Economics	1.9	1.8	3.6	0.8	2.5	0.0	1.2
History of science	0.2	0.2	0.1	0.0	0.5	0.0	0.4
Linguistics	1.1	1.2	1.3	0.3	0.7	0.0	1.2
Political science/public administration	4.5	4.7	2.4	7.6	3.2	6.3	5.4
Sociology	3.8	3.6	3.2	6.3	5.4	9.4	3.3
Other	2.5	2.4	1.9	4.3	2.5	9.4	3.3
Engineering	6.7	5.5	13.4	6.6	7.1	3.1	11.2
Aerospace engineering	0.2	0.2	0.0	0.0	0.2	0.0	0.8
Chemical engineering	1.2	0.9	2.0	1.8	1.7	0.0	2.1
Civil engineering	1.1	1.0	1.7	1.5	0.5	0.0	1.2
Electrical engineering	1.1	0.8	3.1	1.5	0.5	0.0	3.3
Industrial engineering	0.2	0.2	0.3	0.3	0.2	0.0	0.4
Materials engineering	0.7	0.6	1.3	0.0	1.7	0.0	0.8
Mechanical engineering	0.6	0.5	0.9	0.0	1.5	3.1	0.4
Other	1.6	1.3	4.0	1.5	0.7	0.0	2.1
Male (number)	8,884	6,954	887	310	393	35	305
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	79.7	81.2	65.6	76.1	84.7	77.1	83.9
Agricultural sciences	3.7	4.4	1.0	1.3	2.0	2.9	2.0
Biological sciences	25.1	24.9	28.3	18.7	29.0	17.1	22.3
Computer sciences	4.1	3.8	7.3	2.3	2.3	2.9	6.6
Earth, atmospheric, and ocean sciences	3.1	3.5	1.0	1.6	2.5	2.9	2.3
Atmospheric sciences	0.7	0.7	0.2	1.0	0.3	2.9	0.0
Earth sciences	1.8	2.1	0.8	0.3	1.3	0.0	2.0
Ocean sciences	0.6	0.7	0.0	0.3	1.0	0.0	0.3
Mathematics and statistics	4.4	4.4	4.3	4.8	4.6	0.0	3.9
Physical sciences	15.1	15.4	14.7	12.3	10.7	11.4	17.4
Astronomy	1.0	1.0	0.6	0.6	0.3	0.0	2.0
Chemistry	8.6	8.9	8.3	8.4	6.6	5.7	7.2
Physics	5.5	5.5	5.7	3.2	3.8	5.7	8.2
Psychology	10.1	10.6	2.9	12.3	15.8	17.1	11.5

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2005  
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	White	Asian <sup>a</sup>	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity <sup>b</sup>
Social sciences	14.0	14.2	6.1	22.9	17.8	22.9	18.0
Anthropology	1.8	1.8	0.6	2.3	2.3	2.9	3.9
Area/ethnic studies	0.5	0.5	0.3	1.6	0.5	2.9	0.7
Economics	2.8	2.8	1.8	2.3	4.3	2.9	3.0
History of science	0.2	0.3	0.1	0.3	0.0	0.0	0.3
Linguistics	0.4	0.4	0.1	0.0	0.3	0.0	1.0
Political science/public administration	4.5	4.7	1.7	8.4	5.6	5.7	3.3
Sociology	1.7	1.6	0.7	5.2	3.1	2.9	2.0
Other	2.1	2.2	0.8	2.9	1.8	5.7	3.9
Engineering	20.3	18.8	34.4	23.9	15.3	22.9	16.1
Aerospace engineering	1.0	0.9	1.0	0.6	1.3	2.9	1.3
Chemical engineering	2.8	2.7	3.5	2.3	3.6	0.0	2.6
Civil engineering	1.9	2.0	2.3	1.0	2.3	0.0	1.6
Electrical engineering	5.5	4.5	13.6	8.1	3.3	8.6	3.9
Industrial engineering	0.7	0.5	1.5	2.3	0.3	0.0	0.3
Materials engineering	1.6	1.7	2.0	1.6	0.8	0.0	0.3
Mechanical engineering	3.2	3.0	4.8	3.5	1.8	8.6	2.3
Other	3.7	3.5	5.6	4.5	2.0	2.9	3.6

<sup>a</sup> Excludes Native Hawaiians/other Pacific Islanders per revised Office of Management and Budget guidelines.

<sup>b</sup> This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005

(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	79,331	68,065	2,683	21,012	2,210	2,175	2,538	9,667	14,304	13,476	11,266
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	19.7	21.0	19.0	8.5	21.4	10.0	9.3	5.6	44.1	31.4	11.6
Loans	6.6	7.4	3.7	1.8	3.3	1.5	1.2	1.1	21.0	9.8	1.6
Savings	1.7	1.7	2.0	0.6	3.3	1.5	0.7	0.4	2.8	3.0	1.8
Other earnings in graduate school	5.7	5.7	7.5	2.3	10.1	4.5	3.5	1.4	8.3	10.9	5.4
Other family earnings or savings	5.7	6.2	5.9	3.9	4.8	2.6	4.0	2.7	11.9	7.6	2.8
Teaching assistantship	14.7	16.2	7.5	9.7	8.0	13.2	51.1	19.1	14.6	22.8	6.0
Research assistantship, traineeship, and internship	28.0	25.8	41.0	28.8	36.0	38.3	11.0	48.1	16.7	10.7	41.5
Research assistantship	25.2	22.6	40.1	23.1	34.9	37.1	10.0	46.8	12.8	9.6	40.6
Traineeship	2.2	2.5	0.4	5.3	0.6	0.8	0.7	1.1	2.1	0.8	0.6
Internship or residency	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.8	0.1	0.2
Other assistantship	0.3	0.3	0.4	0.1	0.2	0.1	0.2	0.1	1.1	0.2	0.1
Fellowship/scholarship or Grant/stipend	29.0	29.4	20.7	46.7	19.3	30.8	21.9	21.2	15.6	27.3	26.8
Fellowship/scholarship	22.6	22.6	15.9	32.1	16.0	24.9	19.9	16.8	13.0	25.0	22.6
Grant/stipend	6.4	6.7	4.8	14.7	3.3	5.9	2.1	4.3	2.6	2.3	4.2
Employer reimbursement or assistance	3.3	2.3	6.4	1.7	8.5	3.7	3.0	1.7	1.3	2.7	8.9
Foreign	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.3
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.1
Not reported	5.0	5.0	5.0	4.3	6.4	3.5	3.5	4.3	7.4	4.6	4.8
White (number)	60,963	53,021	2,268	15,961	1,568	1,870	2,017	7,675	11,321	10,341	7,942
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	20.7	21.9	19.8	9.2	22.1	10.2	9.7	5.9	45.9	32.2	12.3
Loans	6.6	7.4	3.5	1.9	3.3	1.3	1.0	1.0	20.8	9.6	1.6
Savings	1.7	1.8	1.9	0.6	3.2	1.7	0.7	0.4	3.1	3.1	1.6
Other earnings in graduate school	6.0	6.0	8.1	2.4	10.9	4.6	3.7	1.4	8.9	11.3	6.1
Other family earnings or savings	6.3	6.8	6.3	4.3	4.7	2.6	4.3	3.1	13.1	8.1	3.0
Teaching assistantship	15.7	17.2	7.7	10.7	7.9	13.7	52.4	19.4	15.9	24.3	5.9
Research assistantship, traineeship, and internship	28.5	26.6	41.2	29.5	36.1	38.8	11.2	49.1	17.5	11.4	41.0
Research assistantship	25.6	23.4	40.3	23.9	34.9	37.6	10.1	47.8	13.5	10.2	40.1
Traineeship	2.2	2.5	0.4	5.3	0.6	0.9	0.8	1.1	2.2	0.8	0.7
Internship or residency	0.3	0.3	0.0	0.3	0.3	0.2	0.1	0.2	0.8	0.1	0.2
Other assistantship	0.3	0.4	0.4	0.1	0.3	0.2	0.1	0.1	1.0	0.2	0.1
Fellowship/scholarship or Grant/stipend	27.3	27.4	19.7	44.9	18.8	30.3	21.1	20.2	12.9	25.1	26.8
Fellowship/scholarship	20.9	20.7	14.6	30.2	15.2	24.0	19.2	15.8	10.4	22.7	22.4
Grant/stipend	6.4	6.7	5.1	14.7	3.6	6.3	1.9	4.5	2.5	2.4	4.4
Employer reimbursement or assistance	3.4	2.5	6.6	1.9	9.2	3.8	2.7	1.6	1.3	3.0	9.5
Foreign	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.2	0.1	0.1
Not reported	4.3	4.3	4.7	3.7	5.7	2.8	2.8	3.6	6.3	3.8	4.2

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005  
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Asian (number)	7,903	5,962	133	2,664	393	102	249	937	636	848	1,941
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	10.7	11.3	9.8	5.2	15.8	8.8	8.8	2.9	35.4	21.0	8.8
Loans	2.5	3.0	0.0	0.9	1.0	0.0	0.4	0.3	17.3	4.6	1.0
Savings	1.5	1.3	3.8	0.6	3.3	0.0	1.2	0.5	1.7	2.9	2.2
Other earnings in graduate school	2.9	2.9	2.3	1.3	6.1	5.9	3.2	1.2	5.2	6.4	3.0
Other family earnings or savings	3.7	4.1	3.8	2.4	5.3	2.9	4.0	0.9	11.2	7.1	2.5
Teaching assistantship	12.1	13.9	6.0	6.3	10.2	10.8	49.8	18.7	15.3	24.2	6.6
Research assistantship, traineeship, and internship	37.9	32.8	60.2	32.6	46.3	51.0	14.5	53.4	18.4	13.8	53.7
Research assistantship	34.7	28.8	57.9	26.1	45.3	51.0	13.7	52.4	13.5	12.5	52.9
Traineeship	2.6	3.3	0.0	6.2	0.5	0.0	0.4	0.7	2.5	0.9	0.5
Internship or residency	0.3	0.3	2.3	0.2	0.3	0.0	0.0	0.2	0.9	0.1	0.3
Other assistantship	0.2	0.3	0.0	0.2	0.3	0.0	0.4	0.0	1.4	0.2	0.1
Fellowship/scholarship or Grant/stipend	30.8	34.6	16.5	49.8	16.5	22.5	18.1	18.0	20.8	33.1	19.2
Fellowship/scholarship	23.5	26.1	12.8	34.9	13.0	18.6	14.1	14.4	17.3	30.7	15.6
Grant/stipend	7.3	8.5	3.8	14.9	3.6	3.9	4.0	3.6	3.5	2.5	3.6
Employer reimbursement or assistance	3.0	1.9	2.3	1.4	6.6	2.0	3.6	1.8	0.8	1.5	6.5
Foreign	0.3	0.3	0.8	0.0	0.3	0.0	0.0	0.2	0.3	1.5	0.4
Other	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Not reported	5.1	5.2	4.5	4.5	4.3	4.9	5.2	5.0	9.1	4.8	4.8
Black (number)	3,508	3,060	85	678	81	36	81	292	881	926	448
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	23.2	24.9	15.3	8.4	37.0	8.3	8.6	6.8	35.6	34.4	11.2
Loans	13.1	14.5	8.2	4.3	17.3	5.6	6.2	3.8	24.9	16.8	4.0
Savings	1.8	1.6	1.2	0.3	6.2	0.0	0.0	0.3	1.7	2.7	2.9
Other earnings in graduate school	5.7	6.1	4.7	1.8	9.9	2.8	1.2	1.7	6.0	11.2	2.9
Other family earnings or savings	2.5	2.7	1.2	2.1	3.7	0.0	1.2	1.0	3.1	3.7	1.3
Teaching assistantship	9.1	9.5	3.5	5.6	2.5	8.3	35.8	16.8	6.4	12.1	6.3
Research assistantship, traineeship, and internship	13.8	12.6	27.1	16.8	3.7	25.0	2.5	23.6	11.7	6.8	22.1
Research assistantship	11.4	10.0	25.9	11.4	2.5	25.0	2.5	23.3	8.2	5.8	20.8
Traineeship	1.8	1.9	1.2	5.2	1.2	0.0	0.0	0.3	1.6	0.8	1.1
Internship or residency	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.2
Other assistantship	0.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Fellowship/scholarship or Grant/stipend	42.8	42.4	44.7	61.2	33.3	41.7	43.2	44.2	33.5	37.0	46.0
Fellowship/scholarship	38.0	37.3	41.2	46.6	32.1	38.9	42.0	39.0	31.0	35.5	43.1
Grant/stipend	4.8	5.1	3.5	14.6	1.2	2.8	1.2	5.1	2.5	1.5	2.9
Employer reimbursement or assistance	3.2	2.5	5.9	1.5	8.6	5.6	3.7	1.7	1.7	3.1	8.0
Foreign	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Other	0.2	0.2	0.0	0.0	1.2	2.8	1.2	0.3	0.1	0.1	0.0
Not reported	7.6	7.7	3.5	6.3	13.6	8.3	4.9	6.5	10.9	6.2	6.5

Women, Minorities, and Persons with Disabilities in Science and Engineering



TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005  
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Hispanic (number)	3,653	3,183	106	942	58	67	94	336	883	697	470
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	20.6	22.1	21.7	7.4	20.7	3.0	2.1	5.7	43.1	27.8	10.4
Loans	9.8	11.0	9.4	1.9	3.4	1.5	1.1	2.1	25.6	12.1	1.7
Savings	1.3	1.3	1.9	0.4	5.2	0.0	0.0	0.3	2.0	1.9	1.1
Other earnings in graduate school	5.1	5.1	5.7	2.3	10.3	1.5	1.1	0.9	7.4	8.5	4.7
Other family earnings or savings	4.5	4.7	4.7	2.8	1.7	0.0	0.0	2.4	8.2	5.5	3.0
Teaching assistantship	10.9	11.9	7.5	6.3	3.4	10.4	42.6	19.3	8.2	18.1	4.5
Research assistantship, traineeship, and internship	18.1	16.2	31.1	19.2	29.3	26.9	7.4	33.9	11.7	6.2	31.1
Research assistantship	16.0	13.9	30.2	15.2	29.3	26.9	6.4	32.1	9.5	5.0	30.2
Traineeship	0.3	0.3	0.0	0.0	0.0	0.0	1.1	1.8	0.7	0.6	0.2
Internship or residency	1.6	1.8	0.9	3.9	0.0	0.0	0.0	0.0	1.0	0.6	0.6
Other assistantship	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Fellowship/scholarship or Grant/stipend	40.9	41.2	24.5	60.2	29.3	46.3	38.3	33.6	26.5	41.0	38.9
Fellowship/scholarship	34.6	34.6	21.7	44.8	29.3	41.8	35.1	30.1	23.2	39.2	34.3
Grant/stipend	6.3	6.5	2.8	15.4	0.0	4.5	3.2	3.6	3.3	1.9	4.7
Employer reimbursement or assistance	2.8	1.9	8.5	1.2	6.9	4.5	6.4	2.4	1.2	1.0	8.9
Foreign	0.8	0.6	0.0	0.4	5.2	1.5	1.1	0.0	0.5	1.0	1.7
Other	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0
Not reported	5.8	6.0	6.6	5.2	5.2	7.5	2.1	5.1	8.6	4.7	4.5
American Indian/Alaska Native (number)	342	303	13	64	8	10	7	30	81	90	39
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	28.9	29.0	15.4	6.3	25.0	20.0	0.0	20.0	43.2	41.1	28.2
Loans	8.5	9.2	7.7	1.6	0.0	0.0	0.0	3.3	18.5	11.1	2.6
Savings	4.7	4.0	0.0	0.0	0.0	0.0	0.0	3.3	4.9	7.8	10.3
Other earnings in graduate school	8.5	8.6	0.0	3.1	25.0	10.0	0.0	3.3	9.9	13.3	7.7
Other family earnings or savings	7.3	7.3	7.7	1.6	0.0	10.0	0.0	10.0	9.9	8.9	7.7
Teaching assistantship	9.9	10.9	0.0	9.4	0.0	10.0	57.1	10.0	9.9	12.2	2.6
Research assistantship, traineeship, and internship	15.5	15.2	23.1	20.3	0.0	20.0	14.3	43.3	11.1	5.6	17.9
Research assistantship	14.0	13.9	23.1	17.2	0.0	20.0	14.3	43.3	9.9	4.4	15.4
Traineeship	0.6	0.7	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internship or residency	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.6
Other assistantship	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Fellowship/scholarship or Grant/stipend	34.2	35.0	46.2	57.8	25.0	40.0	0.0	13.3	27.2	34.4	28.2
Fellowship/scholarship	31.6	32.0	38.5	50.0	25.0	40.0	0.0	13.3	25.9	32.2	28.2
Grant/stipend	2.6	3.0	7.7	7.8	0.0	0.0	0.0	0.0	1.2	2.2	0.0
Employer reimbursement or assistance	3.8	2.6	15.4	1.6	37.5	0.0	14.3	3.3	0.0	0.0	12.8
Foreign	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Not reported	7.3	6.9	0.0	4.7	12.5	10.0	14.3	10.0	7.4	6.7	10.3

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005  
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Other or not reported race/ethnicity <sup>a</sup> (number)	2,962	2,536	78	703	102	90	90	397	502	574	426
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	17.4	18.3	14.1	7.8	20.6	13.3	11.1	4.5	31.5	31.0	12.2
Loans	4.9	5.4	1.3	1.3	0.0	4.4	2.2	0.5	15.1	7.7	1.9
Savings	1.7	1.6	3.8	0.4	2.0	1.1	1.1	0.0	2.2	3.5	2.1
Other earnings in graduate school	5.8	5.9	3.8	3.1	12.7	3.3	4.4	2.5	5.2	11.8	5.4
Other family earnings or savings	5.0	5.3	5.1	3.0	5.9	4.4	3.3	1.5	9.0	8.0	2.8
Teaching assistantship	12.9	14.1	9.0	8.3	7.8	10.0	47.8	15.1	13.1	18.5	5.9
Research assistantship, traineeship, and internship	23.0	21.9	34.6	24.3	26.5	28.9	6.7	45.1	15.5	7.3	29.1
Research assistantship	20.5	19.1	34.6	18.2	25.5	26.7	6.7	44.6	11.4	7.0	28.6
Traineeship	2.1	2.3	0.0	5.8	1.0	1.1	0.0	0.5	2.6	0.2	0.5
Internship or residency	0.2	0.3	0.0	0.3	0.0	1.1	0.0	0.0	0.6	0.2	0.0
Other assistantship	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Fellowship/scholarship or Grant/stipend	27.9	27.8	23.1	44.7	21.6	33.3	17.8	19.1	16.7	25.4	28.2
Fellowship/scholarship	22.5	22.2	19.2	31.4	18.6	30.0	16.7	14.9	15.1	22.6	24.6
Grant/stipend	5.4	5.7	3.8	13.2	2.9	3.3	1.1	4.3	1.6	2.8	3.5
Employer reimbursement or assistance	2.4	1.4	3.8	0.7	2.9	2.2	2.2	1.0	1.4	1.6	8.2
Foreign	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
Other	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.3	0.4	0.0	0.0
Not reported	16.3	16.3	15.4	14.1	20.6	12.2	14.4	14.9	21.3	15.9	16.2

<sup>a</sup>This category includes Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).  
SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-21. S&E doctoral degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2001--2005

Academic institution	Doctoral degrees	Academic institution	Doctoral degrees
<b>Asian/Pacific Islander</b>		<b>Black</b>	
All institutions	34,917	All institutions	4,467
University of Illinois at Urbana-Champaign	819	Howard University	233
University of California-Los Angeles	740	University of Maryland at College Park	97
Purdue University main campus	734	University of Michigan at Ann Arbor	97
Texas A&M University main campus	727	University of Florida	73
University of California-Berkeley	720	Pennsylvania State University main campus	70
Stanford University	714	Michigan State University	65
University of Michigan at Ann Arbor	683	Georgia Institute of Technology main campus	61
Ohio State University main campus	671	North Carolina State University at Raleigh	61
University of Texas at Austin	666	Ohio State University main campus	60
Pennsylvania State University main campus	608	University of North Carolina at Chapel Hill	59
University of Wisconsin-Madison	603	CUNY Graduate School and University Center	58
University of Southern California	599	Louisiana State University & Agricultural & Mechanical College	57
Massachusetts Institute of Technology	550	Purdue University main campus	55
Georgia Institute of Technology main campus	540	Meharry Medical College	54
Cornell University all campuses	495	Harvard University	53
University of Maryland at College Park	492	Temple University	50
University of Minnesota-Twin Cities	464	Stanford University	48
University of Florida	460	University of California-Berkeley	47
Columbia University in the City of New York	448	University of Georgia	47
North Carolina State University at Raleigh	418	University of Pennsylvania	46
Other institutions	22,766	Other institutions	3,076
<b>Hispanic</b>		<b>American Indian/Alaska Native</b>	
All institutions	6,506	All institutions	360
Texas A&M University main campus	159	Oklahoma State University all campuses	14
University of Florida	156	University of California-Berkeley	10
University of California-Berkeley	150	University of New Mexico all campuses	8
University of Texas at Austin	131	University of Oklahoma, Norman campus	8
University of California-Los Angeles	130	University of Florida	6
University of Wisconsin-Madison	122	University of Kansas main campus	6
Cornell University all campuses	121	University of Michigan at Ann Arbor	6
Stanford University	116	University of North Dakota all campuses	6
University of Puerto Rico Rio Piedras campus	116	University of Southern California	6
University of Illinois at Urbana-Champaign	114	California School of Professional Psychology at San Diego	5
University of Arizona	111	Colorado State University	5
University of California-Davis	102	Stanford University	5
University of Michigan at Ann Arbor	96	Texas A&M University main campus	5
Harvard University	86	University of Arizona	5
Massachusetts Institute of Technology	83	University of California-Davis	5
Purdue University main campus	83	University of California-Los Angeles	5
University of California-San Diego	83	University of Illinois at Urbana-Champaign	5
University of Maryland at College Park	82	University of Missouri, Columbia	5
Pennsylvania State University main campus	77	University of Washington-Seattle	5
Ohio State University main campus	76	University of Wisconsin-Madison	5
Other institutions	4,312	Washington University	5
		Other institutions	230

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE G-3. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by race/ethnicity: 2005

(Percent distribution)

Location and type of activity	All recipients	White	Asian <sup>a</sup>	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity <sup>b</sup>
All doctoral degree recipients with definite plans (number)	11,161	8,752	1,063	442	534	42	328
All doctoral degree recipients with definite plans	100.0	100.0	100.0	100.0	100.0	100.0	100.0
United States	96.3	96.1	96.8	98.9	98.1	95.2	93.0
Academic employment	22.9	23.4	16.6	29.6	23.6	23.8	18.9
Industry employment	15.4	15.1	22.2	9.7	11.2	23.8	13.4
Postdoctoral study	45.7	45.2	49.6	43.7	50.7	31.0	43.9
Other	12.3	12.3	8.5	15.8	12.5	16.7	16.8
Abroad	3.7	3.9	3.2	1.1	1.9	4.8	6.1
Location unknown	0.0	0.0	0.0	0.0	0.0	0.0	0.9

S&E = Science and engineering.

<sup>a</sup> Excludes Native Hawaiians/other Pacific Islanders per revised OMB guidelines.

<sup>b</sup> This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

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

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All occupations	123,060	124,900	126,708	129,558	131,463	133,488	136,891	136,933	136,485	137,736	139,252
Managers and professionals	33,848	35,318	36,498	37,685	38,937	40,467	41,336	42,271	42,482	44,868	45,445
Executives, administrators, and managers	16,312	17,186	17,746	18,440	19,054	19,584	19,968	20,506	20,561	19,934	20,235
Professional specialty	17,536	18,132	18,752	19,245	19,883	20,883	21,368	21,765	21,921	24,934	25,210
Engineers, architects, and surveyors	2,030	2,117	2,140	2,220	2,224	2,291	2,357	2,362	2,249	2,727	2,760
Architect	141	163	160	169	158	194	218	217	197	180	207
Engineer	1,866	1,934	1,960	2,036	2,052	2,081	2,120	2,121	2,028	1,787	1,819
Aerospace engineer	75	78	80	87	86	79	77	86	90	82	113
Chemical engineer	56	80	95	92	69	82	85	75	77	75	63
Civil engineer	240	231	243	248	296	287	292	296	267	278	293
Computer hardware engineer	na	na	na	na	na	na	na	na	na	99	96
Electrical and electronic engineer	556	611	601	652	629	639	738	740	677	363	343
Industrial engineer	245	250	257	258	262	260	246	258	235	180	177
Mechanical engineer	341	330	350	352	335	340	345	341	301	285	311
Other engineer	351	351	332	347	376	394	335	323	380	425	423
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	2,708	2,762	2,812	2,886	2,898	3,019	3,009	3,112	3,267	3,483	3,515
Audiologist	na	na	na	na	na	na	na	na	na	S	S
Chiropractor	na	na	na	na	na	na	na	na	na	70	73
Dietitian	86	94	105	101	90	92	98	101	74	85	84
Pharmacist	182	170	184	200	180	216	214	220	231	232	233
Physicians' assistant	53	55	63	65	68	67	73	82	89	65	70
Registered nurse	1,956	1,977	1,986	2,065	2,032	2,128	2,142	2,202	2,311	2,449	2,464
Therapist	430	466	474	455	528	517	482	508	562	569	574
Occupational therapist	50	52	64	61	71	71	55	63	78	77	84
Physical therapist	106	130	118	110	134	144	147	156	167	182	173
Radiation therapist	na	na	na	na	na	na	na	na	na	S	S
Recreational therapist	na	na	na	na	na	na	na	na	na	S	S
Respiratory therapist	98	94	96	85	103	90	78	89	97	94	103
Speech therapist	92	91	97	102	105	99	102	112	117	93	93
Other therapist	84	101	99	97	114	114	99	89	102	94	89
Health diagnosing occupations	932	1,002	960	1,027	1,083	1,071	1,066	1,115	1,176	1,135	1,116
Dentist	148	155	137	138	155	173	171	169	180	188	167
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	628	693	667	724	740	720	742	781	825	819	830
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	61	59	54	S	58	53	56	56	S	59	58
Other	55	51	54	69	73	74	57	63	73	S	S
Mathematical and computer scientists	1,735	1,748	1,907	2,119	2,361	2,512	2,820	2,791	2,634	3,122	3,140
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	916	933	1,093	1,236	1,471	1,549	1,829	1,835	1,742	722	700
Computer programmer	549	553	561	626	613	665	710	667	605	563	564
Computer software engineer	na	na	na	na	na	na	na	na	na	758	813
Computer support specialist	na	na	na	na	na	na	na	na	na	330	325
Database administrator	na	na	na	na	na	na	na	na	na	72	94
Network and computer systems administrators	na	na	na	na	na	na	na	na	na	176	190
Network systems and data communications analysts	na	na	na	na	na	na	na	na	na	359	312
Mathematician	na	na	na	na	na	na	na	na	na	S	S
Operations and systems researchers and analysts	222	217	209	201	212	241	228	233	238	95	90
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	535	519	536	529	519	578	576	590	545	647	655
Agricultural and food scientists	S	S	S	S	S	S	53	S	51	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	120	110	116	106	104	109	116	127	119	112	123
Chemist, except biochemist	144	140	149	144	133	136	157	165	130	140	141

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	57	60	S	59	63	56	S	S	S	85	86
Medical scientist	62	61	73	77	83	100	87	101	89	101	93
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	63	55	S	S	112	111
Social scientists and urban planners	440	453	438	441	430	460	454	457	457	414	417
Economist	106	148	148	135	137	141	141	135	123	S	S
Market and survey researchers	na	na	na	na	na	na	na	na	na	124	124
Psychologist	280	260	245	256	232	266	267	271	277	185	185
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	4,331	4,508	4,724	4,799	4,962	5,276	5,394	5,497	5,652	5,378	5,438
Elementary school	1,634	1,738	1,846	1,872	1,951	2,072	2,191	2,225	2,341	2,557	2,580
Prekindergarten and kindergarten	496	498	543	574	586	600	630	656	647	665	656
Secondary school	1,197	1,232	1,228	1,173	1,225	1,342	1,333	1,318	1,289	1,124	1,151
Special education	308	311	340	384	381	369	365	362	374	370	384
Other	696	729	767	796	819	893	875	936	1,001	662	667
Teachers, postsecondary (college and university)	838	846	889	869	919	978	980	1,027	1,015	1,121	1,176
Other professional	3,987	4,177	4,346	4,355	4,487	4,698	4,712	4,814	4,926	6,907	6,993
Technicians (engineering, health, and science)	2,772	2,804	2,769	2,940	2,988	2,967	3,025	3,151	3,150	3,061	3,087
Engineering and related technologists and technicians	916	880	919	960	970	973	1,010	1,025	980	718	702
Drafter	239	229	233	222	228	235	219	225	247	224	206
Electrical and electronic technicians	316	334	361	391	431	437	472	486	433	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	68	62	73	76	71	67	79	68	65	75	80
Other engineering technician	270	234	230	243	212	215	216	219	209	419	416
Health technologists and technicians	1,590	1,648	1,605	1,693	1,733	1,701	1,742	1,831	1,879	2,028	2,092
Clinical lab technologists and technicians	341	374	376	388	359	338	348	363	384	294	333
Dental hygienist	97	95	94	107	112	106	112	111	133	126	130
Diagnostic related technologists and technicians	na	na	na	na	na	na	na	na	na	268	284
Emergency medical technicians and paramedics	na	na	na	na	na	na	na	na	na	121	139
Health diagnosing and treating practitioner support technicians	na	na	na	na	na	na	na	na	na	388	397
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	107	91
Licensed practical nurse	397	399	395	408	381	357	378	383	382	531	517
Opticians, dispensing	na	na	na	na	na	na	na	na	na	50	S
Radiologic technician	154	154	135	148	170	167	163	168	182	na	na
Other health technician	569	607	588	624	694	715	724	788	777	143	155
Science technicians	266	276	245	287	285	293	273	295	291	315	293
Agricultural and food science technicians	na	na	na	na	na	na	na	na	na	na	na
Biological technician	89	96	79	106	108	106	109	127	131	na	na
Chemical technician	77	84	78	85	75	79	71	69	64	86	84
Geological and petroleum technicians	na	na	na	na	na	na	na	na	na	na	na
Nuclear technician	na	na	na	na	na	na	na	na	na	na	na
Other science technician	100	96	87	96	102	108	93	99	96	156	150
Other occupations	86,441	86,778	87,442	88,932	89,538	90,054	92,529	91,511	90,853	89,807	90,720
White	105,190	106,490	107,808	109,856	110,931	112,235	114,424	114,430	114,013	114,235	115,239
Managers and professionals	30,045	31,323	32,116	33,089	34,063	35,125	35,476	36,242	36,405	38,104	38,512
Executives, administrators, and managers	14,605	15,398	15,807	16,420	16,903	17,235	17,462	17,880	17,944	17,377	17,590
Professional specialty	15,439	15,924	16,309	16,669	17,160	17,890	18,014	18,362	18,460	20,727	20,922
Engineers, architects, and surveyors	1,827	1,903	1,870	1,934	1,942	1,994	1,967	1,998	1,919	2,321	2,343
Architect	131	153	145	154	147	181	197	193	179	165	187

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineer	1,677	1,732	1,705	1,766	1,781	1,797	1,754	1,782	1,716	1,505	1,511
Aerospace engineer	70	72	74	79	71	67	67	78	83	71	95
Chemical engineer	50	69	71	74	61	78	74	61	63	66	51
Civil engineer	216	203	207	222	263	241	239	244	220	228	232
Computer hardware engineer	na	na	na	na	na	na	na	na	na	74	66
Electrical and electronic engineer	488	537	516	540	519	523	573	598	549	294	280
Industrial engineer	221	225	237	236	233	238	217	227	210	155	153
Mechanical engineer	311	301	307	306	298	309	302	302	268	248	270
Other engineer	307	311	281	296	321	322	274	262	313	369	364
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	2,345	2,392	2,413	2,473	2,460	2,540	2,531	2,605	2,694	2,897	2,897
Audiologist	na	na	na	na	na	na	na	na	na	S	S
Chiropractor	na	na	na	na	na	na	na	na	na	66	68
Dietitian	70	73	70	69	68	64	73	73	58	65	62
Pharmacist	163	147	154	169	155	173	175	184	180	194	198
Physicians' assistant	S	S	61	60	60	61	66	73	77	54	59
Registered nurse	1,685	1,713	1,697	1,764	1,715	1,789	1,794	1,829	1,892	1,992	2,006
Therapist	380	411	430	411	462	455	424	446	486	489	487
Occupational therapist	S	S	60	57	64	65	52	57	70	69	72
Physical therapist	96	121	107	99	116	124	125	138	148	159	140
Radiation therapist	na	na	na	na	na	na	na	na	na	S	S
Recreational therapist	na	na	na	na	na	na	na	na	na	S	S
Respiratory therapist	83	76	85	74	82	68	68	75	78	71	84
Speech therapist	86	88	95	97	100	96	97	106	109	86	87
Other therapist	71	77	84	85	99	103	82	70	81	76	76
Health diagnosing occupations	804	874	827	868	912	882	859	901	940	911	875
Dentist	133	143	130	125	140	160	149	141	145	161	138
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	526	583	555	590	598	557	567	607	639	639	635
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	59	57	S	S	56	51	54	53	S	56	57
Other	50	S	53	65	68	68	54	57	69	S	S
Mathematical and computer scientists	1,497	1,510	1,583	1,744	1,933	2,035	2,189	2,102	2,016	2,418	2,410
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	776	812	893	1,009	1,190	1,238	1,404	1,343	1,330	564	548
Computer programmer	476	478	471	516	503	548	550	524	457	449	439
Computer software engineer	na	na	na	na	na	na	na	na	na	528	562
Computer support specialist	na	na	na	na	na	na	na	na	na	262	262
Database administrator	na	na	na	na	na	na	na	na	na	59	71
Network and computer systems administrators	na	na	na	na	na	na	na	na	na	148	156
Network systems and data communications analysts	na	na	na	na	na	na	na	na	na	296	256
Mathematician	na	na	na	na	na	na	na	na	na	S	S
Operations and systems researchers and analysts	204	184	180	171	182	202	193	189	187	75	70
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	471	447	455	433	441	490	476	482	451	514	530
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	97	87	94	89	90	92	95	105	97	90	102
Chemist, except biochemist	127	123	125	115	105	106	115	128	96	101	109
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	52	57	S	57	62	54	S	S	S	77	79
Medical scientist	52	S	52	S	60	70	64	71	68	75	71
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	58	54	S	S	85	78
Social scientists and urban planners	396	402	386	389	386	405	401	407	397	358	372

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Economist	97	135	136	117	125	126	119	118	105	S	S
Market and survey researchers	na	na	na	na	na	na	na	na	na	102	102
Psychologist	251	229	211	228	204	231	243	244	243	171	173
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	3,842	3,986	4,170	4,205	4,340	4,617	4,686	4,803	4,899	4,633	4,723
Elementary school	1,436	1,530	1,633	1,624	1,696	1,809	1,894	1,943	2,026	2,206	2,255
Prekindergarten and kindergarten	422	412	460	490	487	503	531	538	522	545	530
Secondary school	1,081	1,120	1,113	1,054	1,094	1,210	1,172	1,189	1,166	989	1,039
Special education	282	276	288	335	335	329	323	320	328	333	339
Other	621	648	676	702	728	766	766	813	857	560	560
Teachers, postsecondary (college and university)	726	730	758	737	774	845	824	849	844	923	957
Other professional	4,257	4,410	4,605	4,623	4,746	4,927	4,905	5,064	5,144	6,675	6,772
Technicians (engineering, health, and science)	3,301	3,361	3,334	3,571	3,557	3,622	3,621	3,747	3,716	2,454	2,516
Engineering and related technologists and technicians	800	770	789	841	820	813	833	855	830	612	614
Drafter	220	209	212	200	212	206	192	208	224	200	182
Electrical and electronic technicians	260	280	306	341	349	352	382	399	349	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	63	55	64	70	67	61	70	63	64	69	76
Other engineering technician	236	206	189	205	171	178	172	162	175	343	356
Health technologists and technicians	1,303	1,369	1,334	1,393	1,404	1,372	1,393	1,464	1,518	1,601	1,665
Clinical laboratory technologists and technicians	267	297	284	287	273	243	257	269	285	220	242
Dental hygienist	96	92	93	105	106	103	109	106	127	122	123
Diagnostic related technologists and technicians	na	na	na	na	na	na	na	na	na	223	248
Emergency medical technicians and paramedics	na	na	na	na	na	na	na	na	na	109	121
Health diagnosing and treating practitioner support technicians	na	na	na	na	na	na	na	na	na	299	328
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	84	71
Licensed practical nurse	310	308	329	335	304	279	283	278	293	387	379
Opticians, dispensing	na	na	na	na	na	na	na	na	na	S	S
Radiologic technician	136	141	119	131	148	148	143	147	163	na	na
Other health technician	469	516	495	519	559	585	588	651	632	113	115
Science technician	223	240	204	243	240	244	232	250	247	241	237
Agricultural and food science technicians	na	na	na	na	na	na	na	na	na	S	S
Biological technician	73	85	68	88	96	93	95	110	114	S	S
Chemical technician	68	73	64	70	60	64	63	60	53	61	67
Geological and petroleum technician	na	na	na	na	na	na	na	na	na	S	S
Nuclear technician	na	na	na	na	na	na	na	na	na	S	S
Other science technician	83	82	72	85	84	87	73	80	80	125	122
Other occupations	71,844	71,806	72,358	73,196	73,311	73,488	75,327	74,441	73,892	73,677	74,211
Black	12,835	13,279	13,542	13,969	14,556	15,056	15,156	15,006	14,872	14,739	14,909
Managers and professionals	2,405	2,651	2,706	2,764	2,947	3,233	3,311	3,393	3,378	3,865	3,913
Executives, administrators, and managers	1,103	1,233	1,218	1,267	1,368	1,484	1,496	1,563	1,553	1,368	1,408
Professional specialty	1,302	1,418	1,488	1,497	1,579	1,749	1,815	1,830	1,825	2,497	2,505
Engineers, architects, and surveyors	75	96	87	82	88	100	122	120	95	119	135
Architect	S	S	S	S	S	S	S	S	S	S	S
Engineer	69	90	82	79	85	96	118	113	91	61	93
Aerospace engineer	S	S	S	S	S	S	S	S	S	S	S
Chemical engineer	S	S	S	S	S	S	S	S	S	S	S
Civil engineer	S	S	S	S	S	S	S	S	S	S	S
Computer hardware engineer	na	na	na	na	na	na	na	na	na	S	S
Electrical and electronic engineer	S	S	S	S	S	S	S	S	S	S	S
Industrial engineer	S	S	S	S	S	S	S	S	S	S	S



TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical engineer	S	S	S	S	S	S	S	S	S	S	S
Other engineer	S	S	S	S	S	S	S	S	S	S	S
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	238	237	246	243	259	276	264	296	317	315	323
Audiologist	na	na	na	na	na	na	na	na	na	S	S
Chiropractor	na	na	na	na	na	na	na	na	na	S	S
Dietitian	S	S	S	S	S	S	S	S	S	S	S
Pharmacist	S	S	S	S	S	S	S	S	S	S	S
Physicians' assistant	S	S	S	S	S	S	S	S	S	S	S
Registered nurse	181	166	170	172	189	205	198	217	232	242	248
Therapist	S	S	S	S	S	S	S	S	S	S	S
Occupational therapist	S	S	S	S	S	S	S	S	S	S	S
Physical therapist	S	S	S	S	S	S	S	S	S	S	S
Radiation therapist	na	na	na	na	na	na	na	na	na	S	S
Recreational therapist	na	na	na	na	na	na	na	na	na	S	S
Respiratory therapist	S	S	S	S	S	S	S	S	S	S	S
Speech therapist	S	S	S	S	S	S	S	S	S	S	S
Other therapist	S	S	S	S	S	S	S	S	S	S	S
Health diagnosing occupations	S	S	S	S	S	S	53	54	55	51	58
Dentist	S	S	S	S	S	S	S	S	S	S	S
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	S	S	S	S	S	S	S	S	S	S	50
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	110	121	127	149	166	180	222	214	171	252	236
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	66	57	79	95	106	115	141	146	120	70	68
Computer programmer	S	S	S	S	S	S	S	S	S	S	S
Computer software engineer	na	na	na	na	na	na	na	na	na	S	S
Computer support specialist	na	na	na	na	na	na	na	na	na	S	S
Database administrator	na	na	na	na	na	na	na	na	na	S	S
Network and computer systems administrators	na	na	na	na	na	na	na	na	na	S	S
Network systems and data communications analysts	na	na	na	na	na	na	na	na	na	S	S
Mathematician	na	na	na	na	na	na	na	na	na	S	S
Operations and systems researchers and analysts	S	S	S	S	S	S	S	S	S	S	S
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	S	S	S
Chemist, except biochemist	S	S	S	S	S	S	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	S	S	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	S	S	S	S	S	S	S	S	S	S	S
Economist	S	S	S	S	S	S	S	S	S	S	S
Market and survey researchers	na	na	na	na	na	na	na	na	na	S	S
Psychologist	S	S	S	S	S	S	S	S	S	S	S
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	386	419	461	487	495	523	551	545	572	543	515
Elementary school	167	175	183	205	205	214	244	237	258	267	244

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Prekindergarten and kindergarten	55	69	74	76	84	81	82	96	95	93	100
Secondary school	91	93	97	97	109	107	117	93	90	95	76
Special education	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	57	58
Teachers, postsecondary (college and university)	42	52	58	57	53	64	61	61	54	56	69
Other professional	408	447	474	436	477	565	537	537	555	1,166	1,191
Technicians (engineering, health, and science)	314	308	301	319	350	371	376	370	363	58	S
Engineering and related technologists and technicians	68	70	78	71	84	95	98	92	76	58	S
Drafter	S	S	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	50	S	S	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S	S
Other engineering technician	S	S	S	S	S	S	S	S	S	S	S
Health technologists and technicians	221	213	197	221	241	244	255	259	268	305	293
Clinical laboratory technologists and technicians	S	51	60	62	54	66	61	60	75	S	S
Dental hygienist	S	S	S	S	S	S	S	S	S	S	S
Diagnostic related technologists and technicians	na	na	na	na	na	na	na	na	na	S	S
Emergency medical technicians and paramedics	na	na	na	na	na	na	na	na	na	S	S
Health diagnosing and treating practitioner support technicians	na	na	na	na	na	na	na	na	na	65	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Licensed practical nurse	74	78	55	63	66	66	74	89	79	119	108
Opticians, dispensing	na	na	na	na	na	na	na	na	na	S	S
Radiologic technician	S	S	S	S	S	S	S	S	S	na	na
Other health technician	80	69	67	81	99	91	97	91	100	S	S
Science technicians	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food science technicians	na	na	na	na	na	na	na	na	na	S	S
Biological technician	S	S	S	S	S	S	S	S	S	S	S
Chemical technician	S	S	S	S	S	S	S	S	S	S	S
Geological and petroleum technician	na	na	na	na	na	na	na	na	na	S	S
Nuclear technician	na	na	na	na	na	na	na	na	na	S	S
Other science technician	S	S	S	S	S	S	S	S	S	S	S
Other occupations	10,116	10,320	10,535	10,886	11,259	11,452	11,469	11,243	11,131	10,816	10,960
Hispanic	10,788	11,127	11,642	12,726	13,291	13,720	15,735	16,190	16,590	17,372	17,930
Managers and professionals	1,517	1,548	1,654	1,867	1,933	2,040	2,182	2,329	2,461	2,481	2,627
Executives, administrators, and managers	807	821	854	1,001	1,028	1,097	1,143	1,239	1,293	1,176	1,290
Professional specialty	709	727	799	866	905	943	1,039	1,091	1,168	1,305	1,337
Engineers, architects, and surveyors	67	74	81	86	87	82	99	91	92	141	158
Architect	S	S	S	S	S	S	S	S	S	S	S
Engineer	62	63	74	77	78	74	86	80	81	72	80
Aerospace engineer	S	S	S	S	S	S	S	S	S	S	S
Chemical engineer	S	S	S	S	S	S	S	S	S	S	S
Civil engineer	S	S	S	S	S	S	S	S	S	S	S
Computer hardware engineer	na	na	na	na	na	na	na	na	na	S	S
Electrical and electronic engineer	S	S	S	S	S	S	S	S	S	S	S
Industrial engineer	S	S	S	S	S	S	S	S	S	S	S
Mechanical engineer	S	S	S	S	S	S	S	S	S	S	S
Other engineer	S	S	S	S	S	S	S	S	S	S	S
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	92	86	87	95	99	102	108	129	122	110	135
Audiologist	na	na	na	na	na	na	na	na	na	S	S
Chiropractor	na	na	na	na	na	na	na	na	na	S	S
Dietitian	S	S	S	S	S	S	S	S	S	S	S

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Pharmacist	S	S	S	S	S	S	S	S	S	S	S
Physicians' assistant	S	S	S	S	S	S	S	S	S	S	S
Registered nurse	57	52	53	60	64	66	62	83	77	95	108
Therapist	S	S	S	S	S	S	S	S	S	S	S
Occupational therapist	S	S	S	S	S	S	S	S	S	S	S
Physical therapist	S	S	S	S	S	S	S	S	S	S	S
Radiation therapist	na	na	na	na	na	na	na	na	na	S	S
Recreational therapist	na	na	na	na	na	na	na	na	na	S	S
Respiratory therapist	S	S	S	S	S	S	S	S	S	S	S
Speech therapist	S	S	S	S	S	S	S	S	S	S	S
Other therapist	S	S	S	S	S	S	S	S	S	S	S
Health diagnosing occupations	S	S	S	S	S	S	S	50	55	54	55
Dentist	S	S	S	S	S	S	S	S	S	S	S
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	S	S	S	S	S	S	S	S	S	S	S
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	63	59	60	75	104	92	105	118	134	172	172
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	S	S	S	S	54	53	73	75	90	S	S
Computer programmer	S	S	S	S	S	S	S	S	S	S	S
Computer software engineer	na	na	na	na	na	na	na	na	na	S	S
Computer support specialist	na	na	na	na	na	na	na	na	na	S	S
Database administrator	na	na	na	na	na	na	na	na	na	S	S
Network and computer systems administrators	na	na	na	na	na	na	na	na	na	S	S
Network systems and data communications analysts	na	na	na	na	na	na	na	na	na	S	S
Mathematician	S	S	S	S	S	S	S	S	S	S	S
Operations and systems researchers and analysts	S	S	S	S	S	S	S	S	S	S	S
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	S	S	S
Chemist, except biochemist	S	S	S	S	S	S	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	S	S	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	S	S	S	S	S	S	S	S	S	S	S
Economist	S	S	S	S	S	S	S	S	S	S	S
Market and survey researchers	na	na	na	na	na	na	na	na	na	S	S
Psychologist	S	S	S	S	S	S	S	S	S	S	S
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	187	199	227	259	268	287	297	314	346	344	356
Elementary school	68	75	89	100	110	106	128	125	149	152	166
Prekindergarten and kindergarten	S	S	S	55	S	S	53	73	50	56	54
Secondary school	S	50	62	S	51	67	59	54	65	68	60
Special education	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	54	S	53	65	50	57
Teachers, postsecondary (college and university)	S	S	S	S	S	S	S	S	55	50	41
Other professional	232	237	276	279	265	301	352	356	383	431	414

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Technicians (engineering, health, and science)	153	183	178	195	211	205	245	281	257	222	237
Engineering and related technologists and technicians	57	54	56	64	74	61	69	86	76	56	62
Drafter	S	S	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	S	S	S	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S	S
Other engineering technician	S	S	S	S	S	S	S	S	S	S	S
Health technologists and technicians	84	109	107	107	121	123	151	171	162	137	153
Clinical laboratory technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Dental hygienist	S	S	S	S	S	S	S	S	S	S	S
Diagnostic related technologists and technicians	na	na	na	na	na	na	na	na	na	S	S
Emergency medical technicians and paramedics	na	na	na	na	na	na	na	na	na	S	S
Health diagnosing and treating practitioner support technicians	na	na	na	na	na	na	na	na	na	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Licensed practical nurse	S	S	S	S	S	S	S	S	S	S	S
Opticians, dispensing	na	na	na	na	na	na	na	na	na	S	S
Radiologic technician	S	S	S	S	S	S	S	S	S	na	na
Other health technician	S	S	50	51	67	76	88	112	96	S	S
Science technician	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food science technicians	na	na	na	na	na	na	na	na	na	S	S
Biological technician	S	S	S	S	S	S	S	S	S	S	S
Chemical technician	S	S	S	S	S	S	S	S	S	S	S
Geological and petroleum technician	na	na	na	na	na	na	na	na	na	S	S
Nuclear technician	na	na	na	na	na	na	na	na	na	S	S
Other science technician	S	S	S	S	S	S	S	S	S	S	S
Other occupations	9,118	9,396	9,810	10,664	11,147	11,475	13,308	13,580	13,872	14,669	15,066

na = not applicable; not an occupation category.

S = suppressed because fewer than 50,000 weighted cases.

NOTES: Data for 2000 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 1999 reflect weights based on the 1990 decennial census. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002, 2003, and 2004 may not be comparable to data for previous years. Hispanics may be of any race and are classified by race as well as ethnicity. Total includes other races, e.g., Asian, American Indian/Alaska Native (all years), and multiple race (from 2000 on) not shown separately due to small sample. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1994–2004.

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
All degrees	18,019,400	13,953,800	1,721,900	1,036,200	936,900	76,200
S&E occupations	4,927,500	3,706,100	697,100	215,800	214,300	17,300
Scientist	3,372,700	2,509,100	502,300	163,000	134,500	12,500
Biological/life scientist	554,500	422,500	78,500	20,400	23,100	3,900
Agricultural/food scientist	48,500	40,300	4,600	1,400	1,800	S
Biological/medical scientist	298,500	211,500	57,600	9,500	14,100	2,000
Forestry and conservation scientist	39,500	36,900	S	800	1,200	S
Postsecondary teacher	168,100	133,800	16,200	8,700	6,100	1,300
Computer and information scientist	1,883,400	1,335,800	342,900	96,600	72,800	3,200
Computer/information scientist	1,849,000	1,308,800	338,600	95,300	71,200	3,200
Postsecondary teacher	34,400	27,000	4,300	1,300	1,500	S
Mathematical scientist	125,100	95,700	14,600	9,300	3,800	400
Mathematical scientist	67,000	52,800	7,700	3,600	1,800	S
Postsecondary teacher	58,000	42,900	6,900	5,800	2,000	S
Physical scientist	315,100	248,900	38,600	8,800	12,600	1,500
Chemist, except biochemist	124,200	86,700	22,900	5,700	6,100	400
Earth scientist/geologist/oceanographer	71,300	64,800	2,600	500	2,200	300
Physicist/astronomer	30,500	24,200	4,900	600	600	S
Other physical scientist	37,300	30,700	2,800	900	1,900	S
Postsecondary teacher	51,700	42,500	5,400	1,000	1,800	200
Psychologist	212,000	180,200	7,000	10,300	11,100	1,000
Psychologist	180,800	154,600	5,200	8,900	9,500	800
Postsecondary teacher	31,200	25,600	1,800	1,400	1,600	200
Social scientist	282,600	225,900	20,700	17,700	11,200	2,500
Economist	34,500	26,600	3,800	2,600	900	S
Political scientist	14,200	11,500	300	600	1,000	S
Sociologist/anthropologist	21,700	18,100	100	1,700	1,600	S
Other social scientist	137,800	109,900	10,300	8,800	4,800	S
Postsecondary teacher	74,400	59,700	6,300	4,000	2,900	600
Engineer	1,554,900	1,197,000	194,800	52,800	79,700	4,800
Aerospace engineer	95,200	77,900	7,100	2,300	4,500	S
Chemical engineer	74,600	54,700	12,600	1,900	3,200	1,100
Civil engineer	247,300	187,900	24,200	8,200	17,400	1,300
Electrical engineer	367,400	252,900	77,100	14,600	17,900	500
Industrial engineer	85,700	64,200	8,000	5,100	7,500	S
Mechanical engineer	272,100	222,800	27,800	5,700	12,300	S
Other engineer	379,600	313,300	31,900	13,500	15,500	800
Postsecondary teacher	33,000	23,400	6,300	1,600	1,500	S
S&E related occupations	5,220,600	4,071,300	482,100	287,400	266,700	20,800
Health related occupation	3,404,800	2,602,700	350,300	197,600	175,600	13,200
S&E manager	385,700	326,900	27,500	12,900	11,800	1,500
S&E precollege teacher	715,900	596,700	14,400	49,900	41,000	3,200
S&E technician/technologist	499,600	372,400	71,100	19,800	26,300	1,600
Other S&E related occupation	214,500	172,600	18,900	7,300	11,900	S
Non-S&E occupations	7,871,300	6,176,500	542,700	533,000	456,000	38,100
Art, humanities and related occupation	247,700	205,500	9,800	9,200	19,200	S
Management related occupation	1,310,600	983,800	125,200	97,300	72,500	10,000
Non-S&E manager	919,700	779,000	44,500	47,600	37,400	3,200
Non-S&E postsecondary teacher	139,200	106,200	9,700	8,700	11,400	1,400
Non-S&E precollege teacher	599,800	463,500	18,700	57,800	47,200	2,700
Sales and marketing occupation	1,322,100	1,080,600	102,000	53,300	57,400	5,200
Social services and related occupation	621,000	449,800	18,700	84,400	51,800	5,000
Other non-S&E occupation	2,711,400	2,108,000	214,100	174,600	159,200	9,400
Bachelor's	10,484,300	8,131,800	871,500	647,900	588,300	47,100
S&E occupations	2,799,200	2,178,700	278,900	139,400	138,900	11,000

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Scientist	1,789,700	1,374,000	194,500	99,900	82,300	6,800
Biological/life scientist	195,500	157,100	15,900	7,800	8,700	2,900
Agricultural/food scientist	26,100	22,900	1,200	S	S	S
Biological/medical scientist	118,200	90,600	12,800	4,800	5,800	1,700
Forestry and conservation scientist	28,600	26,400	S	S	1,100	S
Postsecondary teacher	22,600	17,200	1,900	1,800	700	S
Computer and information scientist	1,292,700	976,400	160,400	73,900	57,100	2,400
Computer/information scientist	1,281,400	966,600	160,000	73,600	56,400	2,400
Postsecondary teacher	11,300	9,800	S	S	700	S
Mathematical scientist	38,700	32,500	1,600	2,700	900	S
Mathematical scientist	28,800	24,900	S	1,700	S	S
Postsecondary teacher	9,900	7,600	S	1,100	200	S
Physical scientist	139,400	111,100	11,000	5,500	7,800	900
Chemist, except biochemist	68,900	50,600	7,300	4,100	4,600	S
Earth scientist/geologist/oceanographer	33,300	31,200	S	S	900	S
Physicist/astronomer	5,100	3,600	900	S	200	S
Other physical scientist	22,300	18,900	1,100	S	1,100	S
Postsecondary teacher	9,800	6,900	S	200	900	S
Psychologist	15,900	11,500	S	1,400	2,300	S
Psychologist	14,000	10,200	S	S	1,800	S
Postsecondary teacher	1,900	1,300	S	S	S	S
Social scientist	107,600	85,300	4,900	8,600	5,600	S
Economist	8,800	6,000	S	S	500	S
Political scientist	8,600	6,600	S	S	S	S
Sociologist/anthropologist	8,700	6,600	S	S	1,300	S
Other social scientist	74,200	59,600	3,900	5,600	2,700	S
Postsecondary teacher	7,200	6,500	S	S	S	S
Engineer	1,009,500	804,700	84,400	39,500	56,600	4,100
Aerospace engineer	53,200	42,500	3,800	1,900	2,600	S
Chemical engineer	45,200	35,300	4,300	1,200	2,100	S
Civil engineer	173,800	134,900	11,100	6,200	13,200	1,300
Electrical engineer	228,900	164,600	36,600	11,100	13,400	S
Industrial engineer	60,500	46,600	3,400	4,500	5,200	S
Mechanical engineer	187,900	159,000	12,100	4,500	9,800	S
Other engineer	254,600	217,700	12,300	9,800	10,100	600
Postsecondary teacher	5,400	4,000	800	S	300	S
S&E related occupations	2,938,500	2,272,200	246,100	184,600	157,900	14,000
Health related occupation	1,812,700	1,364,800	171,800	131,000	92,200	7,300
S&E manager	219,200	188,100	12,100	8,800	6,200	S
S&E precollege teacher	356,800	292,200	6,500	22,700	26,900	3,000
S&E technician/technologist	401,100	309,100	42,200	16,800	23,500	1,600
Other S&E related occupation	148,700	118,000	13,400	5,300	9,100	S
Non-S&E occupations	4,746,600	3,680,900	346,500	323,900	291,500	22,100
Art, humanities and related occupation	159,900	128,200	6,000	5,700	16,000	S
Management related occupation	793,500	598,800	69,500	58,300	47,300	5,300
Non-S&E manager	455,300	390,000	19,200	21,200	20,800	S
Non-S&E postsecondary teacher	25,800	18,600	2,300	1,600	3,200	S
Non-S&E precollege teacher	303,600	225,500	10,700	28,600	31,500	1,000
Sales and marketing occupation	980,000	811,600	70,800	40,400	38,800	2,600
Social services and related occupation	240,000	158,300	7,900	41,800	24,100	3,300
Other non-S&E occupation	1,788,500	1,350,000	160,100	126,400	109,800	7,300
Master's	4,976,800	3,854,400	524,500	292,200	216,700	19,500
S&E occupations	1,453,300	1,035,400	288,300	53,100	52,900	2,900
Scientist	1,003,700	703,700	207,500	41,800	32,600	2,700
Biological/life scientist	128,700	102,200	14,400	5,100	5,200	S
Agricultural/food scientist	12,500	9,700	1,900	400	S	S

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Biological/medical scientist	62,700	46,600	10,300	1,400	3,600	S
Forestry and conservation scientist	9,000	9,000	S	S	S	S
Postsecondary teacher	44,500	36,900	2,200	3,300	1,200	S
Computer and information scientist	526,900	317,900	164,400	20,700	14,600	700
Computer/information scientist	514,700	308,600	162,700	20,100	14,000	700
Postsecondary teacher	12,200	9,300	1,600	S	S	S
Mathematical scientist	51,300	39,000	5,800	3,900	2,100	S
Mathematical scientist	25,300	19,100	3,700	1,600	800	S
Postsecondary teacher	26,000	19,900	2,100	2,300	1,300	S
Physical scientist	82,900	66,500	10,100	1,900	2,900	S
Chemist, except biochemist	25,300	15,800	7,200	1,100	900	S
Earth scientist/geologist/oceanographer	27,200	25,000	S	S	1,000	S
Physicist/astronomer	8,300	7,200	800	S	S	S
Other physical scientist	10,200	8,500	S	S	700	S
Postsecondary teacher	12,100	10,100	1,500	200	100	S
Psychologist	107,600	91,400	3,800	5,500	5,100	S
Psychologist	99,800	85,500	2,600	5,300	4,900	S
Postsecondary teacher	7,800	5,800	S	S	S	S
Social scientist	106,200	86,700	9,100	4,700	2,600	S
Economist	16,500	13,200	2,000	600	S	S
Political scientist	4,000	3,700	S	S	S	S
Sociologist/anthropologist	7,900	7,000	S	S	S	S
Other social scientist	55,800	44,900	5,600	2,300	1,400	S
Postsecondary teacher	22,100	18,000	1,300	1,200	900	S
Engineer	449,600	331,700	80,800	11,300	20,400	S
Aerospace engineer	36,700	31,300	2,300	S	1,900	S
Chemical engineer	20,500	14,100	5,600	S	500	S
Civil engineer	68,300	49,900	11,400	1,900	4,000	S
Electrical engineer	117,500	76,900	31,600	3,300	4,100	S
Industrial engineer	22,600	15,700	3,900	600	2,200	S
Mechanical engineer	74,100	57,900	11,800	1,100	2,400	S
Other engineer	102,100	80,300	12,800	3,500	5,000	S
Postsecondary teacher	7,800	5,700	1,300	S	500	S
S&E related occupations	1,196,200	983,100	86,600	64,600	43,700	3,500
Health related occupation	568,300	468,500	38,700	31,300	20,800	2,700
S&E manager	135,300	113,900	11,000	3,100	4,800	S
S&E precollege teacher	341,100	290,500	7,400	25,300	12,600	S
S&E technician/technologist	89,400	58,200	25,100	2,900	2,700	S
Other S&E related occupation	62,100	52,000	4,600	2,000	2,900	S
Non-S&E occupations	2,327,400	1,835,900	149,500	174,600	120,100	13,100
Art, humanities and related occupation	73,700	65,300	2,300	3,300	2,800	S
Management related occupation	457,400	337,500	49,700	36,000	22,400	4,500
Non-S&E manager	362,100	302,700	18,300	21,100	13,800	1,500
Non-S&E postsecondary teacher	63,000	48,900	2,900	3,700	5,400	S
Non-S&E precollege teacher	283,100	228,700	7,800	28,300	14,300	S
Sales and marketing occupation	303,500	238,500	26,600	12,000	16,200	S
Social services and related occupation	352,800	272,100	9,300	39,300	24,100	1,600
Other non-S&E occupation	431,700	342,300	32,700	30,900	21,100	S
Doctorate	883,700	660,900	151,200	34,500	29,300	4,400
S&E occupations	581,800	424,300	116,100	19,200	17,200	3,400
Scientist	488,400	365,500	86,700	17,300	14,500	3,000
Biological/life scientist	171,600	122,900	37,200	4,600	5,600	900
Agricultural/food scientist	9,200	7,200	1,300	300	300	S
Biological/medical scientist	102,600	65,700	30,500	2,400	3,500	300
Forestry and conservation scientist	1,800	1,500	S	S	S	S
Postsecondary teacher	58,000	48,400	5,300	1,700	1,800	400

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Computer and information scientist	53,400	33,400	16,900	1,800	1,000	200
Computer/information scientist	42,600	25,600	14,600	1,300	800	S
Postsecondary teacher	10,900	7,800	2,300	500	300	S
Mathematical scientist	33,000	22,600	6,800	2,700	900	S
Mathematical scientist	11,000	7,300	3,000	300	300	S
Postsecondary teacher	22,100	15,400	3,800	2,400	500	S
Physical scientist	90,500	69,200	17,400	1,400	1,900	500
Chemist, except biochemist	29,900	20,300	8,200	600	600	200
Earth scientist/geologist/oceanographer	10,200	8,000	1,800	S	300	S
Physicist/astronomer	16,800	13,300	3,100	100	200	S
Other physical scientist	4,000	2,600	1,300	100	S	S
Postsecondary teacher	29,600	25,200	2,900	600	800	200
Psychologist	74,700	66,100	2,000	3,000	2,500	700
Psychologist	54,600	48,800	1,400	2,000	1,700	500
Postsecondary teacher	20,100	17,400	600	900	800	200
Social scientist	65,000	51,200	6,400	3,800	2,500	700
Economist	8,500	6,800	1,100	300	300	S
Political scientist	1,500	1,200	S	100	100	S
Sociologist/anthropologist	5,100	4,500	100	300	100	S
Other social scientist	6,200	4,600	600	500	400	S
Postsecondary teacher	43,700	34,200	4,500	2,600	1,600	500
Engineer	93,400	58,700	29,400	1,900	2,600	400
Aerospace engineer	5,100	4,000	1,000	100	S	S
Chemical engineer	9,000	5,300	2,700	300	700	S
Civil engineer	5,100	3,100	1,700	S	200	S
Electrical engineer	20,700	11,300	8,700	300	400	S
Industrial engineer	2,400	1,700	700	S	S	S
Mechanical engineer	9,600	5,500	3,800	100	200	S
Other engineer	21,900	14,400	6,700	200	400	S
Postsecondary teacher	19,600	13,600	4,100	900	700	S
S&E related occupations	81,700	62,100	12,200	3,300	3,200	300
Health related occupation	33,700	24,500	4,800	1,400	2,500	100
S&E manager	26,000	21,000	3,600	800	400	100
S&E precollege teacher	11,900	10,000	300	1,200	300	S
S&E technician/technologist	7,500	4,500	3,000	S	S	S
Other S&E related occupation	2,600	2,200	400	S	S	S
Non-S&E occupations	220,200	174,600	22,800	12,000	8,900	700
Art, humanities and related occupation	9,600	8,400	1,000	100	100	S
Management related occupation	31,300	24,200	4,800	1,100	1,100	S
Non-S&E manager	73,400	61,900	5,900	3,800	1,500	200
Non-S&E postsecondary teacher	45,400	35,200	4,400	2,800	2,100	100
Non-S&E precollege teacher	8,100	6,100	200	300	1,300	S
Sales and marketing occupation	17,700	13,800	3,200	200	400	S
Social services and related occupation	12,300	8,500	700	2,300	600	S
Other non-S&E occupation	22,400	16,500	2,500	1,200	1,700	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. All degrees includes professional degrees not shown separately. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineer Statistical Data System (SESTAT).



TABLE H-7. Employed scientists and engineers, by occupation, highest degree level, race/ethnicity and sex: 2003

Highest degree and occupation	All races/ethnicities		White		Asian		Black		Hispanic		American Indian/ Alaska Native	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
All degrees	7,582,200	10,437,200	5,694,700	8,259,200	704,800	1,017,100	583,000	453,200	427,600	509,300	38,400	37,800
S&E occupations	1,330,500	3,597,100	966,100	2,740,000	186,600	510,500	88,900	126,900	62,900	151,400	5,200	12,200
Scientist	1,158,200	2,214,500	854,700	1,654,400	154,900	347,400	78,300	84,700	49,900	84,600	4,200	8,300
Biological/life scientist	240,400	314,200	181,300	241,200	32,500	46,000	11,600	8,700	11,500	11,700	700	3,200
Computer and information scientist	519,700	1,363,700	359,400	976,500	91,900	251,000	40,700	55,900	18,000	54,700	1,200	2,100
Mathematical scientist	50,100	75,000	36,900	58,900	5,200	9,400	5,900	3,400	1,500	2,300	S	S
Physical scientist	89,900	225,100	65,200	183,700	14,100	24,600	2,700	6,100	5,000	7,600	600	900
Psychologist	136,600	75,400	113,600	66,700	4,200	2,900	8,000	2,300	8,400	2,700	500	500
Social scientist	121,500	161,100	98,400	127,500	7,100	13,600	9,300	8,300	5,500	5,700	800	1,700
Engineers	172,300	1,382,500	111,400	1,085,600	31,700	163,100	10,600	42,200	13,000	66,800	900	3,800
S&E related occupations	2,886,900	2,333,700	2,214,500	1,856,800	265,800	216,400	201,800	85,600	137,400	129,300	13,000	7,800
Non-S&E occupations	3,364,900	4,506,400	2,514,100	3,662,400	252,400	290,300	292,300	240,700	227,400	228,600	20,300	17,800
Bachelor's	4,575,300	5,909,100	3,419,500	4,712,300	397,000	474,500	362,300	285,600	277,800	310,500	26,800	20,200
S&E occupations	696,000	2,103,200	514,700	1,664,000	74,900	204,000	54,500	84,900	37,100	101,800	2,900	8,100
Scientist	588,600	1,201,100	443,600	930,500	59,100	135,400	46,500	53,500	29,000	53,300	2,200	4,600
Biological/life scientist	93,500	102,000	72,500	84,600	9,400	6,500	4,900	2,900	5,300	3,300	S	2,600
Computer and information scientist	367,300	925,400	271,100	705,300	42,200	118,100	32,600	41,300	15,300	41,800	900	1,500
Mathematical scientist	18,200	20,500	15,700	16,800	700	S	1,000	1,700	700	S	S	S
Physical scientist	49,400	90,000	36,500	74,700	5,500	5,500	2,000	3,400	3,100	4,600	500	S
Psychologist	9,300	6,500	6,900	4,600	S	S	S	S	1,600	S	S	S
Social scientist	50,800	56,800	40,900	44,400	S	3,800	5,300	3,300	2,800	2,800	S	S
Engineers	107,400	902,100	71,100	733,600	15,900	68,500	8,100	31,400	8,100	48,500	600	3,500
S&E related occupations	1,837,400	1,101,100	1,397,600	874,600	159,600	86,500	138,300	46,300	90,600	67,300	9,800	4,200
Non-S&E occupations	2,041,800	2,704,800	1,507,200	2,173,600	162,500	184,000	169,500	154,400	150,100	141,400	14,100	8,000
Master's	2,221,900	2,754,900	1,705,700	2,148,700	195,900	328,600	178,100	114,100	105,200	111,500	7,800	11,700
S&E occupations	437,000	1,016,200	305,800	729,600	81,500	206,800	24,400	28,700	17,100	35,900	1,200	1,800
Scientist	381,500	622,100	271,200	432,500	68,500	139,000	22,200	19,600	12,600	20,000	1,000	1,700
Biological/life scientist	66,400	62,300	51,300	50,900	7,500	6,900	4,100	1,000	2,700	2,600	S	S
Computer and information scientist	142,000	384,800	81,700	236,200	46,800	117,500	7,600	13,100	2,300	12,300	S	S
Mathematical scientist	22,300	29,100	15,900	23,100	2,600	3,200	2,800	1,100	700	1,400	S	S
Physical scientist	27,000	55,900	19,000	47,500	5,600	4,400	400	1,500	1,500	1,300	S	S
Psychologist	77,800	29,800	65,300	26,100	2,000	1,800	4,800	700	4,100	1,100	S	S
Social scientist	46,000	60,200	38,100	48,600	3,900	5,200	2,500	2,300	1,300	1,300	S	S
Engineers	55,500	394,100	34,600	297,100	13,000	67,800	2,300	9,000	4,500	15,900	S	S
S&E related occupations	717,200	479,000	592,700	390,300	41,900	44,800	46,200	18,300	26,500	17,200	2,000	1,500
Non-S&E occupations	1,067,700	1,259,700	807,200	1,028,800	72,500	77,000	107,500	67,100	61,600	58,400	4,600	8,500

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE H-7. Employed scientists and engineers, by occupation, highest degree level, race/ethnicity and sex: 2003

Highest degree and occupation	All races/ethnicities		White		Asian		Black		Hispanic		American Indian/ Alaska Native	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Doctorate	256,900	626,900	192,700	468,200	35,100	116,100	14,800	19,700	10,900	18,400	1,400	3,000
S&E occupations	162,200	419,600	121,200	303,100	24,400	91,700	8,500	10,600	6,100	11,100	1,100	2,300
Scientist	153,500	334,800	116,200	249,300	21,600	65,100	8,300	8,900	5,700	8,800	900	2,100
Biological/life scientist	61,200	110,500	45,300	77,600	11,200	26,100	1,900	2,700	2,200	3,500	300	500
Computer and information scientist	8,200	45,200	4,600	28,800	2,600	14,300	600	1,200	400	700	S	200
Mathematical scientist	8,500	24,500	4,600	18,000	1,600	5,200	2,100	500	100	700	S	S
Physical scientist	13,300	77,300	9,700	59,600	2,900	14,500	300	1,100	300	1,600	100	400
Psychologist	39,500	35,200	33,600	32,500	1,600	500	2,100	800	1,600	900	300	400
Social scientist	22,800	42,200	18,400	32,900	1,800	4,600	1,200	2,600	1,000	1,500	100	500
Engineers	8,600	84,800	5,000	53,700	2,800	26,600	200	1,700	400	2,300	S	200
S&E related occupations	29,800	51,900	22,700	39,400	4,200	8,000	1,400	2,000	1,000	2,200	100	200
Non-S&E occupations	64,900	155,300	48,800	125,700	6,400	16,400	4,900	7,100	3,800	5,100	200	500

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/Other Pacific Islander and multiple race not shown separately. All degrees includes professional degrees not shown separately. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineers Statistical Data System (SESTAT).

TABLE H-9. Employment status of scientists and engineers, by age, sex, race/ethnicity, and disability status: 2003

Age in years, sex, race/ethnicity, and disability status	Total	Employed			Not employed		Retired
		Full time	Part time	Postdoctoral appointment	Seeking employment	Not seeking employment	
All ages	21,644,100	15,958,600	2,041,000	19,800	595,000	1,418,500	1,611,200
Female	9,514,800	6,122,600	1,451,800	7,800	254,700	1,152,300	525,600
Male	12,129,300	9,836,000	589,200	12,000	340,300	266,300	1,085,600
White	16,863,200	12,226,000	1,715,300	12,500	406,600	1,088,100	1,414,600
Asian	2,048,800	1,560,400	155,800	5,700	94,000	174,400	58,400
Black	1,199,200	974,400	61,200	600	46,000	50,000	66,900
Hispanic	1,093,800	866,300	69,800	800	33,700	76,000	47,200
American Indian/Alaska Native	94,500	68,300	7,800	S	4,100	8,800	5,400
No disability	20,137,300	15,112,600	1,890,700	18,800	533,500	1,254,300	1,327,400
With disability	1,506,900	846,000	150,300	1,000	61,500	164,300	283,800
29 and younger	2,367,000	1,814,400	223,600	1,200	76,600	251,100	S
Female	1,316,800	957,100	148,000	500	40,600	170,600	S
Male	1,050,200	857,300	75,600	700	36,100	80,500	S
White	1,661,300	1,297,800	155,400	900	45,100	162,100	S
Asian	333,600	232,400	32,500	300	15,000	53,400	S
Black	147,900	116,800	12,200	S	7,200	11,600	S
Hispanic	153,500	116,500	13,300	S	6,900	16,700	S
American Indian/Alaska Native	7,500	5,500	1,000	S	S	1,000	S
No disability	2,307,700	1,769,300	218,800	1,200	72,600	245,700	S
With disability	59,300	45,100	4,800	S	4,000	5,400	S
30-39	5,575,500	4,440,300	510,100	14,500	152,500	454,300	3,800
Female	2,643,700	1,707,000	443,800	5,700	81,700	401,800	3,700
Male	2,931,800	2,733,300	66,300	8,800	70,800	52,600	S
White	4,079,700	3,215,600	419,000	9,100	88,200	344,500	3,200
Asian	684,700	541,900	47,000	4,500	30,700	60,600	S
Black	326,000	282,700	13,100	400	14,100	15,100	S
Hispanic	350,300	287,700	20,800	400	15,900	25,600	S
American Indian/Alaska Native	19,500	17,000	700	S	S	S	S
No disability	5,421,400	4,328,200	494,500	13,900	145,100	436,100	3,800
With disability	154,100	112,100	15,600	600	7,500	18,300	S
40-49	5,885,300	4,777,900	544,200	3,000	154,400	375,900	29,900
Female	2,703,600	1,814,200	464,200	1,200	68,600	335,900	19,500
Male	3,181,600	2,963,700	80,000	1,800	85,800	40,000	10,400
White	4,568,600	3,668,800	466,600	1,700	109,800	296,000	25,700
Asian	535,800	435,900	38,800	800	20,800	38,100	1,400
Black	342,000	308,000	10,800	100	11,300	10,300	S
Hispanic	329,700	279,700	19,500	300	6,400	23,200	S
American Indian/Alaska Native	36,100	25,000	2,700	S	S	5,600	S
No disability	5,541,700	4,543,100	503,100	2,700	136,200	330,700	25,900
With disability	343,600	234,800	41,200	200	18,200	45,200	4,000
50 and older	7,816,300	4,926,000	763,100	1,100	211,400	337,200	1,577,500
Female	2,850,700	1,644,300	395,800	400	63,800	244,000	502,400
Male	4,965,700	3,281,700	367,300	700	147,600	93,200	1,075,100
White	6,553,500	4,043,800	674,300	800	163,500	285,400	1,385,800
Asian	494,700	350,100	37,500	S	27,400	22,400	57,000
Black	383,300	266,900	25,100	S	13,400	13,100	64,900
Hispanic	260,200	182,400	16,200	100	4,500	10,600	46,500
American Indian/Alaska Native	31,300	20,900	3,400	S	S	2,100	4,800
No disability	6,866,400	4,472,000	674,400	1,000	179,600	241,800	1,297,700
With disability	949,900	454,000	88,700	200	31,800	95,400	279,800

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-11. Scientists and engineers employed part time, by preference for full-time employment and reason for working part time, sex, race/ethnicity, and disability status: 2003

Preference and reason for part time	Race/ethnicity									
	Total	Sex		White	Asian	Black	Hispanic	American Indian/Alaska Native	Disability status	
		Female	Male						No disability	With disability
All part time	2,041,900	1,452,200	589,700	1,716,000	156,000	61,300	69,900	7,900	1,891,600	150,300
Preference for full-time status										
Did not want	1,758,900	1,299,500	459,400	1,513,100	120,600	42,300	53,800	6,000	1,644,000	114,900
Wanted	283,000	152,700	130,300	202,900	35,400	19,000	16,100	1,900	247,600	35,400
Reason for part-time status										
Chronic illness or permanent disability	71,100	38,200	32,900	59,000	3,100	4,800	3,000	500	44,500	26,600
Did not need/want to work full time	661,800	531,500	130,300	594,700	31,400	12,600	14,000	1,300	624,700	37,200
Family responsibilities	763,300	709,200	54,100	660,400	56,000	8,500	26,400	1,700	733,200	30,000
Retired	384,700	114,900	269,800	341,500	14,900	16,200	7,000	1,900	335,500	49,200
Student	230,000	139,100	90,900	151,600	43,800	11,800	14,100	1,300	220,800	9,300
Suitable full-time job not available	221,000	125,600	95,400	163,500	26,400	12,500	11,200	1,900	200,800	20,200
Other	241,300	173,800	67,500	196,600	17,900	11,700	9,800	1,500	222,000	19,300

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding and because respondents could select more than one reason. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-12. S&E doctorate holders who are unemployed or out of labor force, by reason for not working, sex, race/ethnicity, and disability status: 2003

Reason for not working	Race/ethnicity									
	Total	Sex		White	Asian	Black	Hispanic	American Indian/Alaska Native	Disability status	
		Female	Male						No disability	With disability
All not working	140,100	42,000	98,100	114,000	15,900	4,500	4,000	500	117,400	22,700
Chronic illness or permanent disability	6,800	1,800	4,900	4,900	900	600	400	S	2,500	4,200
Did not need/want to work	18,400	8,000	10,400	16,300	1,400	300	300	S	16,100	2,300
Family responsibilities	12,800	11,300	1,500	8,200	2,100	800	1,300	S	12,100	700
Laid off	12,100	3,200	8,900	8,200	3,300	400	100	S	11,300	800
Retired	97,400	18,300	79,100	84,300	7,400	2,600	1,700	300	79,400	18,000
Student	4,300	1,800	2,500	3,300	700	200	S	S	4,200	S
Suitable job not available	14,100	6,100	8,000	9,400	2,900	1,300	500	S	12,900	1,200
Other	6,600	3,500	3,100	4,700	1,400	100	300	S	5,300	1,300
	Percent distribution									
All not working	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Chronic illness or permanent disability	4.8	4.3	5.0	4.3	5.4	13.0	10.1	S	2.2	18.7
Did not need/want to work	13.1	19.1	10.6	14.3	9.0	5.9	6.5	S	13.7	9.9
Family responsibilities	9.1	26.9	1.5	7.2	13.4	18.4	32.0	S	10.3	3.1
Laid off	8.6	7.6	9.1	7.2	21.1	9.3	2.5	S	9.6	3.5
Retired	69.5	43.4	80.7	73.9	46.7	56.6	42.8	63.2	67.6	79.6
Student	3.0	4.2	2.5	2.9	4.5	4.5	S	S	3.6	S
Suitable job not available	10.1	14.4	8.2	8.3	18.1	28.2	11.9	S	11.0	5.4
Other	4.7	8.4	3.1	4.1	8.9	1.9	8.6	S	4.5	5.8

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding and because respondents could select more than one reason. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-13. Primary education/employment status and median salary of 2001 and 2002 S&E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed <sup>a</sup> (\$)
			S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
All S&E and health fields	937,700	222,000	157,700	129,500	358,700	69,800	36,000
Sciences	682,200	185,100	89,700	25,200	327,400	54,700	32,000
Female	383,600	106,100	34,300	18,600	189,900	34,700	30,000
Male	298,600	79,000	55,400	6,600	137,600	20,100	35,000
White	457,600	129,900	55,600	16,500	221,600	34,000	31,000
Asian	92,400	25,100	21,700	3,600	33,500	8,500	38,000
Underrepresented minority	132,200	30,200	12,400	5,100	72,300	12,200	32,000
No disability	652,300	179,000	85,800	23,700	313,000	50,800	32,000
With disability	29,800	6,000	3,900	1,500	14,500	3,900	34,000
Biological/life sciences	150,700	61,400	21,300	13,900	44,400	9,800	30,000
Female	89,200	34,000	12,400	9,800	26,400	6,600	29,000
Male	61,600	27,500	8,900	4,000	18,000	3,200	32,000
White	102,400	40,100	14,500	9,100	32,900	5,800	29,000
Asian	23,500	12,700	3,400	S	4,000	S	30,000
Underrepresented minority	24,900	8,600	3,400	2,900	7,400	2,500	32,000
No disability	146,500	60,500	21,100	13,000	42,600	9,200	30,000
With disability	4,300	900	S	S	1,700	S	33,000
Computer and information sciences	84,800	6,400	38,600	S	33,600	5,700	45,000
Female	24,700	2,500	9,300	S	11,500	1,400	44,000
Male	60,100	3,900	29,300	S	22,100	4,300	46,000
White	43,000	3,300	20,000	S	17,000	2,300	46,000
Asian	27,500	S	13,700	S	9,800	2,000	47,000
Underrepresented minority	14,300	1,200	4,900	S	6,800	1,400	40,000
No disability	79,400	6,300	35,800	S	31,800	5,100	45,000
With disability	5,400	S	2,800	S	1,800	S	50,000
Mathematical sciences	25,600	6,000	4,100	S	13,700	1,500	36,000
Female	11,800	2,100	2,200	S	6,500	900	35,000
Male	13,800	3,900	2,000	S	7,200	600	38,000
White	17,800	4,500	2,700	S	9,700	800	36,000
Asian	4,400	900	800	S	2,200	S	40,000
Underrepresented minority	3,400	700	600	S	1,800	300	36,000
No disability	24,100	5,800	3,900	S	12,800	1,400	37,000
With disability	1,500	S	S	S	900	S	34,000
Physical and related sciences	35,700	15,500	8,500	1,000	8,800	1,900	35,000
Female	16,800	7,100	3,700	900	4,200	1,000	34,000
Male	18,900	8,400	4,800	S	4,600	900	36,000
White	26,500	11,200	6,700	400	6,800	1,400	35,000
Asian	4,200	2,100	700	S	1,000	S	40,000
Underrepresented minority	5,000	2,200	1,100	500	1,000	200	34,000
No disability	34,600	15,100	8,200	1,000	8,400	1,900	35,000
With disability	1,100	500	300	S	300	S	35,000
Psychology	153,000	44,600	4,400	6,300	82,700	15,200	28,000
Female	114,200	31,800	2,100	5,400	62,200	12,700	28,000
Male	38,800	12,800	2,200	S	20,400	2,400	30,000
White	110,800	36,200	2,700	4,600	55,300	12,000	29,000
Asian	7,800	S	S	S	4,600	S	24,000
Underrepresented minority	34,400	7,800	1,000	S	22,700	2,500	28,000
No disability	146,200	43,500	4,400	5,800	78,400	14,200	29,000
With disability	6,800	1,100	S	S	4,200	S	27,000
Social and related sciences	232,300	51,000	12,900	3,400	144,400	20,600	30,000
Female	126,900	28,600	4,800	2,500	79,200	12,000	29,000
Male	105,300	22,500	8,100	900	65,200	8,600	35,000

TABLE H-13. Primary education/employment status and median salary of 2001 and 2002 S&E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed <sup>a</sup> (\$)
			S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
White	157,100	34,600	9,000	2,000	99,800	11,800	30,000
Asian	25,000	6,800	2,400	S	11,900	3,500	36,000
Underrepresented minority	50,200	9,700	1,400	1,000	32,700	5,300	30,000
No disability	221,600	47,800	12,600	3,200	138,900	19,100	30,000
With disability	10,700	3,200	S	S	5,500	1,500	30,000
Engineering	112,300	19,100	67,500	700	17,700	7,300	50,000
Female	24,000	4,100	13,300	300	4,100	2,200	49,000
Male	88,300	15,000	54,200	S	13,700	5,100	50,000
White	71,400	11,100	45,300	S	10,800	4,000	49,000
Asian	23,300	5,400	12,000	S	3,400	2,100	52,000
Underrepresented minority	17,600	2,700	10,200	S	3,500	1,200	48,000
No disability	108,600	18,500	65,200	600	17,400	6,900	50,000
With disability	3,700	600	2,200	S	300	S	48,000
Health	143,300	17,700	S	103,700	13,600	7,700	44,000
Female	122,800	13,500	S	90,500	11,100	7,400	44,000
Male	20,500	4,300	S	13,100	2,500	S	42,000
White	108,800	11,100	S	81,000	10,800	5,600	43,000
Asian	5,400	S	S	S	S	S	46,000
Underrepresented minority	29,100	4,600	S	19,500	2,700	2,100	43,000
No disability	140,900	17,500	S	102,700	13,100	7,100	43,000
With disability	2,400	S	S	S	S	S	46,000

S = suppressed data with weighted cases less than 100 or unweighted sample sizes less than 20 for reasons of respondent confidentiality or data reliability.

<sup>a</sup> Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Numbers are rounded to nearest 100, and median salaries are rounded to nearest \$1,000. Detail may not add to total because of rounding. The underrepresented minority category includes black, Hispanic, American Indian/Alaska Native, and Native Hawaiian/other Pacific Islander. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2003.

TABLE H-14. Primary education/employment status and median salary of 2001 and 2002 S&amp;E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All master's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed <sup>a</sup> (\$)
			Employed in S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
All S&E and health fields	246,700	40,900	75,800	58,900	51,600	19,400	52,000
Sciences	117,000	27,900	42,000	2,000	36,200	9,000	45,000
Female	62,800	14,400	18,900	1,600	22,000	5,900	40,000
Male	54,200	13,500	23,000	400	14,200	3,100	50,000
White	64,200	13,100	21,400	1,700	24,700	3,300	42,000
Asian	37,100	10,600	16,500	S	5,300	4,500	56,000
Underrepresented minority	15,700	4,200	4,100	200	6,100	1,100	43,000
No disability	112,100	26,300	40,700	2,000	34,500	8,600	45,000
With disability	4,900	1,600	1,300	S	1,700	300	40,000
Biological/life sciences	16,800	4,500	7,300	1,300	2,800	800	41,000
Female	9,400	2,400	3,600	1,200	1,600	700	38,000
Male	7,400	2,200	3,800	S	1,200	S	42,000
White	11,300	2,500	5,200	1,100	2,100	500	41,000
Asian	3,600	1,300	1,900	S	S	S	40,000
Underrepresented minority	1,900	700	300	S	500	200	38,000
No disability	16,400	4,300	7,200	1,300	2,800	800	41,000
With disability	400	S	S	S	S	S	39,000
Computer and information sciences	27,200	4,800	13,600	S	4,900	4,000	60,000
Female	10,200	2,200	4,400	S	1,500	2,100	58,000
Male	17,000	2,600	9,100	S	3,400	1,900	67,000
White	4,800	700	1,500	S	2,300	S	70,000
Asian	20,600	3,900	11,200	S	2,200	3,200	60,000
Underrepresented minority	1,800	S	900	S	300	400	54,000
No disability	26,000	4,500	13,100	S	4,400	3,900	63,000
With disability	1,200	S	S	S	S	S	50,000
Mathematical sciences	5,900	1,800	2,700	S	1,000	400	55,000
Female	2,300	500	1,000	S	500	300	51,000
Male	3,600	1,300	1,700	S	500	S	57,000
White	2,500	700	1,300	S	500	S	50,000
Asian	2,900	1,000	1,200	S	500	S	57,000
Underrepresented minority	400	100	200	S	100	S	55,000
No disability	5,900	1,800	2,700	S	1,000	400	55,000
With disability	S	S	S	S	S	S	S
Physical and related sciences	9,600	3,100	4,800	S	1,300	400	50,000
Female	3,400	700	1,800	S	600	200	45,000
Male	6,200	2,400	3,000	S	700	S	52,000
White	5,400	1,500	2,800	S	900	200	50,000
Asian	2,900	1,200	1,300	S	S	S	54,000
Underrepresented minority	1,300	400	700	S	100	S	48,000
No disability	9,300	3,000	4,700	S	1,300	400	50,000
With disability	200	S	S	S	S	S	62,000
Psychology	32,000	6,800	9,200	S	14,400	1,100	38,000
Female	23,500	4,500	6,500	S	11,300	900	38,000
Male	8,400	2,300	2,700	S	3,200	S	37,000
White	23,700	3,900	7,600	S	11,100	800	37,000
Asian	2,700	S	S	S	S	S	46,000
Underrepresented minority	5,600	1,500	1,100	S	2,700	300	38,000
No disability	29,900	6,600	8,600	S	13,500	900	38,000
With disability	2,000	S	S	S	1,000	S	30,000
Social and related sciences	25,500	6,800	4,400	300	11,700	2,400	43,000
Female	14,000	4,100	1,600	S	6,500	1,600	41,000
Male	11,600	2,700	2,700	S	5,200	800	43,000
White	16,500	3,800	3,100	S	7,900	1,400	43,000



TABLE H-14. Primary education/employment status and median salary of 2001 and 2002 S&E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All master's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed <sup>a</sup> (\$)
			Employed in S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
Asian	4,300	1,600	S	S	1,600	800	43,000
Underrepresented minority	4,700	1,300	900	S	2,300	200	42,000
No disability	24,600	6,100	4,400	300	11,400	2,300	43,000
With disability	1,000	600	S	S	300	S	45,000
Engineering	47,000	10,800	29,900	S	3,600	2,600	65,000
Female	9,200	2,000	5,200	S	900	1,000	60,000
Male	37,800	8,800	24,700	S	2,800	1,600	65,000
White	18,900	2,200	13,700	S	2,200	700	65,000
Asian	23,900	7,500	13,600	S	1,100	1,700	64,000
Underrepresented minority	4,200	1,100	2,600	S	300	200	65,000
No disability	45,700	10,600	29,100	S	3,500	2,400	65,000
With disability	1,300	S	700	S	S	S	65,000
Health	82,700	2,300	3,900	56,800	11,800	7,900	53,000
Female	64,300	S	2,600	45,500	7,300	7,900	50,000
Male	18,400	S	S	11,300	4,500	S	56,000
White	68,100	S	S	49,900	7,800	6,800	53,000
Asian	4,100	S	S	S	S	S	58,000
Underrepresented minority	10,500	S	1,900	3,400	4,000	S	52,000
No disability	79,200	2,300	3,900	55,400	11,000	6,600	53,000
With disability	3,500	S	S	S	S	S	43,000

S = suppressed data for weighted cases less than 100 or unweighted sample sizes less than 20 for respondent confidentiality and/or data reliability.

<sup>a</sup> Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Numbers are rounded to nearest 100, and median salaries are rounded to nearest \$1,000. Detail may not add to total because of rounding. The underrepresented minority category includes black, Hispanic, American Indian/Alaska Native, and Native Hawaiian/other Pacific Islander. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2003.

TABLE H-15. Employment status and median salary of 2001 and 2002 S&E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All recipients	Employed				Not employed		Median salary for full-time employed <sup>a</sup> (\$)
		Total	Full time	Part time	Postdoc appointment	Seeking work	Not seeking work	
All S&E fields	49,700	47,400	33,100	2,900	11,400	1,100	1,200	53,000
Female	20,200	18,900	12,400	2,100	4,400	500	900	50,000
Male	29,500	28,500	20,700	800	7,000	600	400	55,000
White	32,500	31,100	21,500	2,300	7,300	700	700	52,000
Asian	12,300	11,600	8,000	300	3,300	300	400	60,000
Black	2,500	2,400	1,900	100	300	S	S	55,000
Hispanic	1,900	1,800	1,300	100	400	S	100	51,000
American Indian/Alaska Native	300	200	200	S	S	S	S	56,000
No disability	47,500	45,300	31,700	2,700	10,900	1,100	1,100	53,000
With disability	2,200	2,100	1,400	200	500	S	S	55,000
Sciences	37,600	35,700	23,300	2,400	10,000	800	1,000	50,000
Female	16,600	15,400	9,600	1,800	4,000	400	800	48,000
Male	21,000	20,300	13,700	600	6,000	400	300	50,000
White	26,200	24,900	16,300	1,900	6,700	700	700	50,000
Asian	7,600	7,200	4,300	200	2,700	100	300	48,000
Black	1,900	1,900	1,400	100	300	S	S	50,000
Hispanic	1,500	1,400	1,000	100	300	S	100	49,000
American Indian/Alaska Native	200	200	100	S	S	S	S	50,000
No disability	35,800	34,100	22,300	2,200	9,500	800	1,000	50,000
With disability	1,700	1,600	1,000	200	500	S	S	48,000
Biological/life sciences	12,500	11,700	5,600	300	5,800	300	500	41,000
Female	5,500	5,000	2,200	200	2,600	100	300	40,000
Male	6,900	6,700	3,400	S	3,200	S	100	42,000
White	8,100	7,700	3,600	300	3,800	200	300	41,000
Asian	3,200	3,000	1,300	S	1,600	100	200	40,000
Black	500	500	300	S	100	S	S	45,000
Hispanic	500	500	300	S	200	S	S	45,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	12,000	11,300	5,400	300	5,600	300	500	41,000
With disability	400	400	200	S	200	S	S	38,000
Computer and information sciences	1,600	1,500	1,300	S	100	S	S	78,000
Female	300	300	200	S	S	S	S	75,000
Male	1,300	1,200	1,100	S	S	S	S	78,000
White	900	800	700	S	S	S	S	72,000
Asian	500	500	500	S	S	S	S	84,000
Black	100	100	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	1,500	1,500	1,300	S	100	S	S	78,000
With disability	S	S	S	S	S	S	S	S
Health sciences	3,100	3,000	2,400	300	400	S	S	59,000
Female	2,000	1,900	1,500	300	200	S	S	60,000
Male	1,100	1,100	900	S	100	S	S	55,000
White	2,100	2,100	1,600	300	200	S	S	59,000
Asian	600	600	500	S	100	S	S	62,000
Black	200	200	200	S	S	S	S	67,000
Hispanic	100	100	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	3,000	2,900	2,300	300	300	S	S	59,000
With disability	S	S	S	S	S	S	S	S
Mathematical sciences	1,900	1,800	1,400	S	400	S	S	57,000
Female	600	500	300	S	200	S	S	50,000
Male	1,300	1,300	1,100	S	200	S	S	60,000
White	1,300	1,300	900	S	300	S	S	57,000
Asian	400	400	300	S	S	S	S	60,000

TABLE H-15. Employment status and median salary of 2001 and 2002 S&E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All recipients	Employed				Not employed		Median salary for full-time employed <sup>a</sup> (\$)
		Total	Full time	Part time	Postdoc appointment	Seeking work	Not seeking work	
Black	100	100	S	S	S	S	S	S
Hispanic	100	100	S	S	S	S	S	S
No disability	1,800	1,700	1,300	S	400	S	S	58,000
With disability	S	S	S	S	S	S	S	S
Physical and related sciences	7,400	7,100	4,500	200	2,300	S	200	55,000
Female	2,000	1,800	1,300	100	400	S	100	58,000
Male	5,400	5,300	3,300	100	1,900	S	S	54,000
White	4,900	4,700	3,000	200	1,500	S	200	56,000
Asian	1,900	1,900	1,100	S	700	S	S	50,000
Black	300	300	200	S	S	S	S	52,000
Hispanic	200	200	100	S	100	S	S	57,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	7,200	6,900	4,500	200	2,200	S	200	55,000
With disability	200	200	S	S	S	S	S	33,000
Psychology	7,300	6,900	4,800	1,100	1,000	200	200	50,000
Female	5,100	4,800	3,100	1,100	600	S	100	51,000
Male	2,300	2,100	1,700	S	400	S	S	50,000
White	5,900	5,600	3,900	1,000	700	200	S	50,000
Asian	500	500	300	S	200	S	S	45,000
Black	500	500	300	S	100	S	S	50,000
Hispanic	300	300	200	100	S	S	S	51,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	6,700	6,400	4,400	1,000	900	100	200	50,000
With disability	600	500	400	S	S	S	S	60,000
Social sciences	6,900	6,600	5,600	600	400	200	200	52,000
Female	3,200	2,900	2,400	300	200	S	100	50,000
Male	3,800	3,700	3,200	300	200	S	S	53,000
White	5,100	4,800	4,100	400	300	200	100	50,000
Asian	900	900	800	S	S	S	S	60,000
Black	500	500	400	S	S	S	S	54,000
Hispanic	300	300	300	S	S	S	S	49,000
American Indian/Alaska Native	100	100	S	S	S	S	S	S
No disability	6,600	6,300	5,400	500	400	200	100	52,000
With disability	400	300	300	S	S	S	S	48,000
Engineering	9,100	8,700	7,500	200	1,000	300	100	73,000
Female	1,600	1,600	1,300	S	200	S	S	78,000
Male	7,400	7,100	6,100	200	800	200	S	72,000
White	4,200	4,200	3,600	S	500	S	S	72,000
Asian	4,100	3,800	3,300	S	500	200	S	74,000
Black	300	300	300	S	S	S	S	78,000
Hispanic	300	300	300	S	S	S	S	70,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	8,700	8,300	7,100	200	1,000	S	S	71,000
With disability	400	400	400	S	S	S	S	82,000

S = suppressed data with weighted cases less than 50 or fewer than 5 respondents and with weighted cases less than 200 for salary data.

<sup>a</sup> Salary data for those whose principal job was less than 35 hours per week are not included. Salary data are for principal job only.

NOTES: Numbers are rounded to nearest 10 and median salaries to nearest \$1,000. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2003.

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003  
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	Hispanic	American Indian/ Alaska Native
<b>Both sexes</b>						
All occupations	60,000	61,000	63,000	50,000	50,000	50,000
29 and younger	40,000	40,000	50,000	35,000	36,000	42,000
30-39	58,500	58,000	68,000	50,000	50,000	46,500
40-49	68,000	70,000	65,400	55,000	55,000	50,000
50 and older	65,000	66,800	64,000	55,000	59,800	63,000
S&E occupations	69,500	70,000	71,000	60,000	60,000	60,000
29 and younger	49,000	48,000	55,000	45,600	45,000	47,100
30-39	65,000	65,000	73,000	58,000	60,000	60,000
40-49	75,000	76,000	78,000	65,000	67,000	56,500
50 and older	76,000	77,000	80,000	65,000	70,000	72,400
Scientist	65,000	66,000	70,000	58,000	55,000	56,000
29 and younger	45,000	43,000	55,000	40,000	42,000	47,100
30-39	64,000	62,500	72,000	57,000	53,000	60,000
40-49	72,000	73,000	75,000	64,000	63,000	50,000
50 and older	72,000	72,400	78,000	62,000	60,000	72,000
Biological/life scientist	52,000	53,000	50,000	53,000	50,000	45,000
29 and younger	32,000	32,000	31,000	40,000	32,000	47,100
30-39	48,000	47,000	44,000	54,000	46,000	35,000
40-49	60,000	60,000	64,000	54,000	65,000	45,000
50 and older	68,000	68,000	70,000	65,000	70,000	72,000
Computer and information scientist	70,000	71,000	75,000	63,000	60,000	56,000
29 and younger	55,000	54,000	60,000	60,000	48,000	S
30-39	70,000	70,000	75,000	60,000	61,000	56,000
40-49	77,000	78,000	80,000	70,000	65,000	60,000
50 and older	75,000	75,000	83,000	65,000	60,000	62,000
Mathematical scientist	60,000	63,000	68,000	42,000	45,500	S
29 and younger	40,000	42,000	35,000	40,000	37,000	S
30-39	56,000	56,000	70,000	40,000	45,500	S
40-49	71,000	76,500	70,000	55,000	40,000	S
50 and older	70,000	73,000	58,000	56,000	60,000	S
Physical scientist	60,000	60,600	60,000	53,500	47,000	60,000
29 and younger	38,000	40,000	38,000	37,000	35,000	S
30-39	52,000	52,000	53,000	53,000	40,000	60,000
40-49	68,000	70,000	65,500	55,000	70,000	56,500
50 and older	74,300	76,000	70,000	59,000	50,000	80,000
Psychologist	55,000	55,000	55,000	58,000	45,000	61,000
29 and younger	35,000	36,000	40,000	24,700	30,000	S
30-39	45,500	44,100	55,000	58,000	45,000	61,000
40-49	60,000	60,000	55,000	65,000	62,000	S
50 and older	62,000	62,900	70,000	57,000	60,000	75,000
Social scientist	58,000	60,000	65,000	49,800	50,000	60,000
29 and younger	40,000	40,000	45,000	36,000	45,000	S
30-39	55,000	55,000	65,000	48,000	50,000	60,000
40-49	65,000	67,000	68,000	65,000	43,500	60,000
50 and older	75,000	80,000	72,000	52,000	69,500	65,000
Engineer	74,000	75,000	75,000	65,000	66,700	75,000
29 and younger	54,900	54,500	56,000	55,000	50,000	65,000
30-39	70,000	69,000	75,000	67,000	66,500	70,000
40-49	80,000	82,000	80,000	71,600	77,800	76,000
50 and older	82,000	83,000	82,000	75,000	75,000	85,000

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003  
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	Hispanic	American
						Indian/ Alaska Native
S&E related occupations	57,000	58,000	60,000	50,000	50,000	48,000
29 and younger	40,000	40,000	45,000	35,000	35,000	35,000
30-39	52,000	52,000	63,000	47,000	48,000	39,000
40-49	62,000	65,000	62,400	56,000	60,000	65,000
50 and older	65,000	65,000	67,400	55,000	60,000	65,000
Non-S&E occupations	54,000	58,000	50,000	45,000	45,000	46,000
29 and younger	35,000	35,000	42,000	32,000	34,500	42,000
30-39	53,000	54,000	60,000	45,000	48,000	37,500
40-49	62,000	68,400	50,000	49,500	49,000	41,000
50 and older	60,000	61,000	46,700	51,000	52,000	56,300
Female						
All occupations	49,000	49,000	55,000	47,000	42,000	43,000
29 and younger	38,000	37,500	44,000	33,500	34,000	42,000
30-39	48,700	48,000	60,000	46,000	44,000	45,000
40-49	54,000	55,000	56,000	51,000	46,000	41,000
50 and older	52,000	52,000	52,500	51,000	47,400	52,000
S&E occupations	58,000	56,100	65,000	55,000	50,000	60,000
29 and younger	43,000	42,800	45,000	40,000	42,000	46,000
30-39	59,000	57,000	67,000	55,000	52,000	60,000
40-49	65,000	64,100	68,900	62,000	55,000	60,000
50 and older	62,000	62,000	75,000	57,000	55,000	60,000
Scientist	56,000	55,000	64,000	55,000	48,800	60,000
29 and younger	40,000	40,000	43,500	40,000	35,600	46,000
30-39	56,000	55,000	64,000	55,000	50,000	60,000
40-49	63,000	62,000	66,000	62,400	52,000	54,000
50 and older	61,900	62,000	74,000	57,000	54,000	60,000
Biological/life scientist	48,600	48,000	47,500	52,800	48,000	59,000
29 and younger	31,000	30,000	30,000	46,000	31,000	S
30-39	48,000	45,000	56,000	54,000	48,600	S
40-49	56,500	58,000	54,000	57,400	52,000	52,000
50 and older	60,900	60,900	65,000	53,700	55,100	72,400
Computer and information scientist	63,000	62,700	68,800	56,300	54,000	54,000
29 and younger	51,000	50,000	60,000	57,500	43,200	S
30-39	63,000	64,000	68,000	55,000	55,000	S
40-49	67,000	67,400	70,000	64,000	59,500	60,000
50 and older	67,000	66,900	80,000	52,000	47,400	44,000
Mathematical scientist	50,000	50,000	69,900	40,000	40,000	S
29 and younger	40,000	42,000	35,000	40,000	37,000	S
30-39	50,000	50,000	70,000	40,000	36,000	S
40-49	55,500	62,700	80,000	55,000	40,000	S
50 and older	52,000	51,000	81,000	S	S	S
Physical scientist	47,500	48,000	52,000	50,000	42,000	47,000
29 and younger	40,000	41,600	40,000	40,000	35,000	S
30-39	50,000	51,000	56,000	50,000	30,000	S
40-49	61,000	63,000	62,100	62,400	52,000	36,000
50 and older	59,000	55,000	65,000	47,000	60,000	S
Psychologist	50,000	50,000	50,000	58,000	44,000	61,000
29 and younger	36,000	36,000	40,000	24,000	43,000	S
30-39	47,000	44,000	50,000	58,000	48,800	S
40-49	54,000	52,100	70,000	65,000	58,000	S
50 and older	58,000	60,000	50,000	57,000	57,000	S

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003  
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	Hispanic	American Indian/ Alaska Native
Social scientist	50,000	51,000	60,000	45,000	48,000	60,000
29 and younger	40,000	40,100	45,000	36,000	44,000	S
30-39	51,000	54,000	50,000	48,000	48,100	60,000
40-49	57,000	55,000	68,000	65,000	43,500	S
50 and older	68,000	67,000	72,000	70,000	48,000	S
Engineer	65,000	63,000	72,000	62,000	62,000	63,000
29 and younger	52,000	52,000	54,000	50,000	50,000	S
30-39	68,500	65,000	80,100	70,000	67,000	51,000
40-49	78,600	79,500	80,000	55,000	70,000	63,000
50 and older	70,000	70,000	75,000	95,000	72,000	S
S&E related occupations	50,000	50,000	55,000	49,000	42,000	46,500
29 and younger	40,000	39,100	45,600	35,000	33,000	35,000
30-39	48,000	48,500	59,000	46,000	41,600	46,000
40-49	55,000	55,000	55,400	55,000	48,000	60,000
50 and older	52,600	52,400	59,000	52,000	43,300	46,800
Non-S&E occupations	43,000	44,000	45,000	43,000	40,000	40,000
29 and younger	32,000	32,000	38,000	30,000	33,000	42,000
30-39	44,000	43,500	55,200	41,000	40,000	30,000
40-49	49,000	50,000	44,800	46,000	42,000	30,000
50 and older	48,000	48,600	35,000	50,000	46,000	52,000
Male						
All occupations	70,000	70,000	70,000	57,000	60,000	60,500
29 and younger	45,000	45,000	53,000	36,000	40,000	47,100
30-39	65,000	65,000	74,000	55,600	57,000	56,000
40-49	78,500	80,000	75,000	60,000	62,000	60,000
50 and older	75,000	75,000	70,000	60,000	70,000	75,000
S&E occupations	72,000	72,800	75,000	64,500	65,000	60,000
29 and younger	52,000	50,200	58,200	55,000	48,000	47,100
30-39	68,500	68,000	75,000	62,100	62,000	60,000
40-49	80,000	80,000	80,000	70,000	73,900	55,000
50 and older	80,000	80,000	81,000	69,000	70,500	80,000
Scientist	70,000	70,000	75,000	63,000	60,000	56,000
29 and younger	50,000	47,000	58,000	48,400	47,000	47,100
30-39	67,500	67,000	75,000	60,000	58,000	56,000
40-49	76,000	76,400	80,000	67,000	70,000	45,000
50 and older	77,000	78,000	80,000	65,000	70,000	72,500
Biological/life scientist	55,000	56,500	53,000	55,000	56,000	45,000
29 and younger	32,000	32,000	32,000	34,000	44,000	47,100
30-39	46,000	48,000	42,000	53,400	42,500	35,000
40-49	62,200	62,200	70,000	50,000	70,000	45,000
50 and older	72,000	72,000	78,000	82,000	70,000	72,000
Computer and information scientist	74,000	75,000	75,000	65,000	65,000	56,000
29 and younger	57,500	55,000	60,000	60,000	49,000	S
30-39	72,000	72,000	78,000	65,000	65,000	56,000
40-49	80,000	80,000	84,000	70,000	73,000	S
50 and older	79,000	80,000	83,000	70,000	69,000	80,000
Mathematical scientist	70,000	73,000	65,400	55,000	61,100	S
29 and younger	42,000	43,000	27,000	42,000	S	S
30-39	60,000	58,000	70,000	52,000	62,000	S
40-49	76,000	80,000	70,000	38,000	75,000	S
50 and older	78,700	80,000	55,000	56,000	60,000	S

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003  
(Dollars)

Sex, occupation, and age in years	All races/ethnicities					American Indian/ Alaska Native
	All races/ethnicities	White	Asian	Black	Hispanic	
Physical scientist	65,000	65,500	64,000	55,400	50,000	60,000
29 and younger	35,000	38,000	26,000	35,000	32,500	S
30-39	53,500	54,000	53,000	60,000	45,700	49,000
40-49	71,600	72,500	73,000	55,000	70,000	60,000
50 and older	79,000	80,000	75,000	59,000	50,000	S
Psychologist	61,000	62,400	55,000	50,000	45,000	65,000
29 and younger	30,500	33,000	S	S	27,500	S
30-39	44,600	45,500	55,000	26,000	40,000	S
40-49	68,000	70,000	55,000	52,000	68,000	S
50 and older	70,000	70,000	85,000	94,000	73,000	S
Social scientist	65,000	66,000	72,000	52,400	55,000	60,000
29 and younger	40,000	40,000	40,000	S	54,300	S
30-39	57,000	55,000	80,000	48,000	55,000	137,500
40-49	70,000	75,000	67,000	75,000	45,000	60,000
50 and older	81,000	84,000	75,000	40,000	76,100	65,000
Engineer	75,000	75,000	75,000	65,000	68,000	80,000
29 and younger	55,000	55,000	60,000	55,000	48,700	S
30-39	70,000	69,800	75,000	66,000	65,000	75,000
40-49	81,000	82,000	83,000	74,200	78,000	80,000
50 and older	82,400	84,000	82,400	75,000	78,000	85,000
S&E related occupations	70,000	72,800	74,000	55,000	60,000	65,000
29 and younger	40,500	42,000	41,000	32,000	36,000	S
30-39	60,000	60,000	72,000	60,000	50,000	34,000
40-49	80,000	84,000	84,000	64,000	65,000	65,000
50 and older	80,000	81,200	82,000	55,000	74,000	75,000
Non-S&E occupations	65,000	68,000	52,000	50,000	53,000	60,500
29 and younger	40,000	40,000	45,000	35,000	35,000	45,000
30-39	62,400	65,000	65,000	53,000	55,000	52,000
40-49	75,000	80,000	50,000	54,000	58,000	55,000
50 and older	65,900	70,000	50,000	58,000	60,000	80,000

S = suppressed because fewer than 200 weighted cases

NOTES: Salaries rounded to nearest \$100. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Race/ethnicity									
	Sex			Race/ethnicity					Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability
All sectors	18,019,400	7,582,200	10,437,200	13,953,800	1,721,900	1,036,200	936,900	76,200	17,022,100	997,300
S&E occupations	4,927,500	1,330,500	3,597,100	3,706,100	697,100	215,800	214,300	17,300	4,678,100	249,500
Scientist	3,372,700	1,158,200	2,214,500	2,509,100	502,300	163,000	134,500	12,500	3,200,800	171,800
Biological/life scientist	554,500	240,400	314,200	422,500	78,500	20,400	23,100	3,900	523,600	31,000
Computer and information scientist	1,883,400	519,700	1,363,700	1,335,800	342,900	96,600	72,800	3,200	1,796,600	86,800
Mathematical scientist	125,100	50,100	75,000	95,700	14,600	9,300	3,800	400	117,100	8,000
Physical scientist	315,100	89,900	225,100	248,900	38,600	8,800	12,600	1,500	299,500	15,600
Psychologist	212,000	136,600	75,400	180,200	7,000	10,300	11,100	1,000	197,200	14,800
Social scientist	282,600	121,500	161,100	225,900	20,700	17,700	11,200	2,500	266,900	15,700
Engineers	1,554,900	172,300	1,382,500	1,197,000	194,800	52,800	79,700	4,800	1,477,200	77,600
S&E-related occupations	5,220,600	2,886,900	2,333,700	4,071,300	482,100	287,400	266,700	20,800	4,970,100	250,500
Non-S&E occupations	7,871,300	3,364,900	4,506,400	6,176,500	542,700	533,000	456,000	38,100	7,373,900	497,400
Business or industry	9,677,900	3,198,700	6,479,100	7,472,200	1,121,900	421,000	477,900	33,400	9,202,600	475,300
S&E occupations	3,092,900	651,600	2,441,300	2,296,100	492,100	122,800	128,000	8,500	2,952,900	140,000
Scientist	1,888,700	531,000	1,357,700	1,359,000	343,500	84,100	69,300	5,000	1,805,100	83,600
Biological/life scientist	125,300	53,200	72,100	94,800	18,700	4,500	6,200	200	119,100	6,100
Computer and information scientist	1,449,600	364,000	1,085,600	1,015,700	290,000	68,700	50,300	2,800	1,386,300	63,300
Mathematical scientist	33,500	9,400	24,000	27,200	4,100	1,200	500	S	31,300	2,100
Physical scientist	161,900	48,900	113,000	125,200	21,400	5,100	6,900	800	155,500	6,400
Psychologist	33,200	21,500	11,700	27,800	700	1,600	2,400	200	31,200	2,000
Social scientist	85,200	34,000	51,200	68,200	8,600	3,000	3,000	S	81,600	3,700
Engineers	1,204,300	120,600	1,083,600	937,100	148,600	38,700	58,700	3,500	1,147,900	56,400
S&E-related occupations	2,336,200	1,102,900	1,233,300	1,796,300	269,700	99,600	124,100	8,300	2,238,300	97,900
Non-S&E occupations	4,248,700	1,444,200	2,804,500	3,379,900	360,100	198,700	225,800	16,600	4,011,300	237,400
Federal government	803,200	254,900	548,300	608,400	60,400	69,300	44,200	4,500	751,300	51,900
S&E occupations	285,800	76,400	209,400	219,500	25,500	19,500	14,200	1,700	268,700	17,100
Scientist	179,200	62,300	116,900	135,900	14,600	15,400	8,600	1,400	167,800	11,400
Biological/life scientist	48,900	17,400	31,500	38,400	4,400	2,600	1,900	600	47,100	1,800
Computer and information scientist	66,700	23,200	43,500	46,100	7,200	8,200	3,600	S	60,700	6,100
Mathematical scientist	13,100	6,100	7,000	9,900	600	1,400	900	S	12,300	800
Physical scientist	25,400	5,400	20,000	21,000	1,800	1,100	1,000	300	23,900	1,400
Psychologist	5,600	3,300	2,300	4,900	S	200	300	100	5,200	S
Social scientist	19,400	6,900	12,500	15,500	400	2,000	900	S	18,700	700
Engineers	106,600	14,100	92,500	83,600	10,900	4,000	5,600	S	100,900	5,700
S&E-related occupations	156,900	70,600	86,300	120,500	11,400	10,200	9,500	1,100	149,300	7,500
Non-S&E occupations	360,600	107,900	252,700	268,400	23,500	39,700	20,500	1,700	333,300	27,300

Women, Minorities, and Persons with Disabilities in Science and Engineering



TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Race/ethnicity									
	Sex			Race/ethnicity					Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability
Nonprofit	1,558,100	1,039,500	518,700	1,247,900	112,400	97,800	67,300	4,900	1,487,500	70,600
S&E occupations	179,700	76,500	103,200	133,000	22,100	10,300	9,300	1,100	171,900	7,800
Scientist	158,500	71,300	87,200	119,300	18,100	9,500	6,600	1,000	151,400	7,100
Biological/life scientist	25,700	9,900	15,800	18,900	4,300	1,300	500	S	25,100	600
Computer and information scientist	73,800	28,600	45,100	52,900	9,500	5,200	4,400	S	70,400	3,300
Mathematical scientist	2,900	1,800	1,100	2,600	200	S	S	S	2,800	S
Physical scientist	5,500	2,100	3,400	4,200	1,100	100	S	S	5,400	S
Psychologist	20,100	12,600	7,500	17,500	900	700	900	S	18,500	1,700
Social scientist	30,500	16,300	14,200	23,200	2,100	2,100	700	S	29,300	1,200
Engineers	21,100	5,200	16,000	13,600	3,900	800	2,600	S	20,400	700
S&E-related occupations	754,600	577,700	176,900	608,400	60,600	43,100	23,500	1,400	728,900	25,700
Non-S&E occupations	623,900	385,300	238,500	506,500	29,800	44,400	34,500	2,500	586,700	37,100
Self-employed	1,240,800	488,600	752,100	1,036,200	85,500	35,200	60,500	7,900	1,151,600	89,200
S&E occupations	187,700	67,200	120,500	160,700	11,600	6,800	5,300	500	173,400	14,300
Scientist	139,700	61,600	78,100	120,500	7,400	6,100	3,200	400	129,600	10,100
Biological/life scientist	9,200	3,200	6,000	8,400	600	S	S	S	7,000	2,300
Computer and information scientist	58,900	17,500	41,400	47,900	6,100	2,200	1,000	S	57,100	1,800
Mathematical scientist	2,000	600	1,400	2,000	S	S	S	S	2,000	S
Physical scientist	7,000	600	6,400	6,500	S	S	200	S	6,700	300
Psychologist	44,900	30,900	14,000	41,000	400	1,600	1,200	400	40,600	4,300
Social scientist	17,500	8,700	8,800	14,700	S	2,000	700	S	16,100	S
Engineers	48,000	5,600	42,400	40,200	4,200	800	2,100	S	43,800	4,200
S&E-related occupations	375,400	157,200	218,200	307,100	31,200	9,600	20,100	3,200	352,500	22,900
Non-S&E occupations	677,700	264,200	413,400	568,400	42,800	18,800	35,000	4,300	625,700	52,000
State/local government	1,339,600	637,500	702,100	966,300	90,000	157,100	87,400	9,500	1,237,700	102,000
S&E occupations	313,600	98,600	215,000	239,900	28,100	18,600	19,700	2,000	292,600	21,000
Scientist	212,500	84,000	128,500	167,100	16,800	13,000	12,300	1,300	198,000	14,500
Biological/life scientist	42,700	13,700	29,000	35,900	3,300	1,300	1,100	S	39,700	2,900
Computer and information scientist	85,200	32,400	52,800	62,300	9,600	5,800	6,200	S	79,600	5,600
Mathematical scientist	7,200	3,800	3,400	4,700	1,600	S	S	S	6,400	S
Physical scientist	28,000	8,300	19,700	23,700	1,100	1,200	1,400	S	25,800	2,300
Psychologist	14,200	9,000	5,200	11,700	300	600	1,400	S	12,900	1,300
Social scientist	35,200	16,800	18,400	28,700	1,000	3,600	2,000	S	33,700	1,500
Engineers	101,100	14,600	86,500	72,800	11,300	5,600	7,400	S	94,600	6,500
S&E-related occupations	307,000	192,800	114,300	217,100	25,600	31,500	20,900	1,500	282,400	24,600
Non-S&E occupations	719,000	346,200	372,800	509,400	36,200	106,900	46,700	6,000	662,600	56,400
Universities and 4-year colleges	1,505,300	754,600	750,700	1,110,300	202,000	88,700	73,000	7,900	1,422,300	83,000
S&E occupations	703,600	266,800	436,800	517,700	110,900	28,700	31,000	3,400	665,100	38,500
Scientist	635,400	256,200	379,200	472,900	95,400	26,100	28,100	3,100	600,500	34,900
Biological/life scientist	271,900	120,900	151,000	200,000	45,600	8,300	13,200	1,500	257,500	14,400
Computer and information scientist	107,200	33,200	74,000	74,300	18,800	5,500	5,000	S	102,400	4,800

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Race/ethnicity										
	Sex			Race/ethnicity						Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability	
Mathematical scientist	46,900	18,400	28,400	33,600	6,300	4,700	1,600	S	44,200	2,600	
Physical scientist	80,100	22,700	57,400	61,800	12,800	1,100	3,000	300	75,600	4,500	
Psychologist	49,400	27,500	21,900	40,200	3,800	2,100	2,400	300	46,800	2,600	
Social scientist	79,800	33,500	46,400	63,100	8,100	4,400	2,900	700	73,900	5,900	
Engineers	68,200	10,600	57,600	44,800	15,600	2,600	2,900	300	64,600	3,600	
S&E-related occupations	456,100	303,400	152,700	328,300	65,700	35,500	18,200	2,200	439,200	16,900	
Non-S&E occupations	345,600	184,400	161,200	264,300	25,300	24,500	23,900	2,300	318,000	27,600	
Other educational institutions	1,894,400	1,208,400	686,000	1,512,500	49,600	167,100	126,700	8,200	1,769,200	125,300	
S&E occupations	164,300	93,300	70,900	139,200	6,800	9,200	6,800	300	153,400	10,900	
Scientist	158,700	91,800	66,900	134,400	6,500	9,000	6,500	300	148,400	10,300	
Biological/life scientist	30,800	22,100	8,700	26,000	1,500	2,300	100	S	28,000	2,700	
Computer and information scientist	41,900	20,800	21,200	36,600	1,600	1,100	2,200	S	40,100	1,800	
Mathematical scientist	19,500	9,900	9,500	15,700	1,700	1,400	500	S	18,100	1,300	
Physical scientist	7,100	1,900	5,200	6,600	300	100	100	S	6,500	600	
Psychologist	44,500	31,800	12,700	37,000	900	3,500	2,600	S	42,000	2,500	
Social scientist	14,900	5,300	9,600	12,500	500	600	1,100	S	13,600	1,300	
Engineers	5,600	1,600	4,000	4,800	300	S	S	S	5,000	600	
S&E-related occupations	834,300	482,300	352,000	693,700	17,900	57,900	50,300	3,200	779,400	54,900	
Non-S&E occupations	895,900	632,700	263,200	679,600	25,000	100,000	69,600	4,700	836,400	59,500	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineers Statistical Data System (SESTAT).

TABLE H-20. Scientists and engineers employed in schools and academic institutions, by institution type, sex, race/ethnicity, and disability status: 2003

Institution type	Race/ethnicity									
	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability
All educational institutions	3,399,700	1,963,000	1,436,800	2,622,800	251,600	255,800	199,700	16,100	3,191,400	208,300
Preschool, elementary, middle, or secondary school	1,719,500	1,113,200	606,300	1,374,500	40,800	153,200	117,900	6,600	1,613,500	106,000
2-year college, junior college, or technical institute	160,700	86,500	74,200	128,000	7,900	12,300	7,600	1,200	142,600	18,100
4-year college or university	738,100	316,400	421,700	563,300	84,100	41,000	34,600	5,000	689,900	48,200
Medical school	560,700	336,500	224,200	405,300	85,800	34,200	24,500	1,800	538,200	22,400
University research institute	206,500	101,600	104,900	141,700	32,100	13,500	13,900	1,100	194,100	12,400
Other	14,200	8,600	5,600	10,000	800	1,600	S	S	13,100	1,200

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-21. S&E doctorate holders employed full time in universities and 4-year colleges, by Carnegie classification of academic institution, sex, race/ethnicity, and disability status: 2003

Carnegie classification	Race/ethnicity										
	Total	Sex		Race/ethnicity						Disability status	
		Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability	
All academic institutions	357,900	110,300	247,600	270,200	55,100	16,500	12,900	2,100	333,500	24,400	
Research university I	105,100	30,200	74,900	81,800	16,100	3,300	3,200	600	98,500	6,700	
Research university II	18,700	4,300	14,400	14,600	2,800	500	500	200	16,800	1,900	
Doctorate granting I	12,100	3,400	8,600	9,400	1,700	600	300	S	11,100	1,000	
Doctorate granting II	14,300	3,700	10,600	11,400	1,700	400	600	200	13,200	1,100	
Comprehensive I	40,100	11,600	28,500	31,700	4,000	2,300	1,600	400	36,600	3,500	
Comprehensive II	3,200	1,000	2,200	2,800	200	100	S	S	3,000	200	
Liberal arts	18,100	5,400	12,700	15,800	1,000	900	400	S	16,800	1,300	
2-year institutions	1,100	200	900	900	S	S	100	S	1,100	S	
Medical schools and medical centers	12,300	4,700	7,600	9,100	2,100	400	700	S	11,400	900	
Other specialized institutions	3,600	1,000	2,500	2,700	500	100	100	S	3,400	100	
Missing	129,200	44,700	84,600	90,000	24,700	8,000	5,500	500	121,600	7,600	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-23. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and faculty rank: 2003

Occupation, race/ethnicity, and years since doctorate	All faculty	Professor	Associate professor	Assistant professor	Other	Rank not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
White	292,600	101,900	62,200	56,300	15,700	56,600
Fewer than 10	105,500	4,500	15,700	42,800	8,500	33,900
10-19	75,000	22,200	29,500	10,800	2,400	10,200
20-29	64,500	40,400	12,500	2,000	2,800	6,700
30 or more	47,600	34,700	4,500	600	1,900	5,800
Asian	58,100	12,800	9,000	13,000	2,600	20,800
Fewer than 10	30,100	500	2,600	9,700	1,700	15,600
10-19	17,100	5,100	4,800	2,700	600	3,800
20-29	6,700	4,000	1,100	500	S	900
30 or more	4,200	3,200	400	S	S	400
Black	17,500	3,900	5,900	3,900	800	3,000
Fewer than 10	9,500	400	3,200	3,300	500	2,100
10-19	4,100	1,100	1,800	500	200	500
20-29	2,800	1,600	700	100	S	300
30 or more	1,100	700	200	S	S	S
Hispanic	13,600	3,200	2,400	4,300	700	3,000
Fewer than 10	7,800	400	1,000	3,300	600	2,400
10-19	3,800	1,100	1,200	1,000	100	400
20-29	1,100	800	100	S	S	100
30 or more	1,000	900	S	S	S	S
American Indian/Alaska Native	2,200	900	400	600	S	300
Fewer than 10	800	S	200	500	S	100
10-19	600	200	200	100	S	S
20-29	400	200	S	S	S	S
30 or more	400	400	S	S	S	S
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
White	220,100	76,400	50,700	45,500	10,300	37,200
Fewer than 10	77,700	2,600	12,500	34,000	5,400	23,300
10-19	59,900	16,200	24,500	9,300	2,100	7,800
20-29	46,900	30,200	9,800	1,700	1,400	3,800
30 or more	35,700	27,500	4,000	400	1,500	2,400
Asian	49,400	10,300	7,500	11,400	2,300	17,900
Fewer than 10	26,000	400	1,800	8,400	1,600	13,800
10-19	14,100	3,900	4,300	2,400	500	3,000
20-29	5,600	3,500	1,000	500	S	600
30 or more	3,600	2,600	400	S	S	400
Black	12,400	2,400	4,500	2,600	500	2,400
Fewer than 10	7,100	400	2,500	2,200	200	1,800
10-19	3,000	600	1,400	400	200	400
20-29	1,600	900	500	S	S	200
30 or more	700	500	200	S	S	S
Hispanic	10,100	2,400	2,000	2,900	400	2,500
Fewer than 10	5,700	200	800	2,400	300	2,000
10-19	2,800	800	1,100	500	100	300
20-29	800	600	100	S	S	100
30 or more	800	700	S	S	S	S
American Indian/Alaska Native	1,900	800	300	600	S	200
Fewer than 10	800	S	200	400	S	100
10-19	400	200	S	100	S	S
20-29	400	200	S	S	S	S
30 or more	400	400	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-24. S&E doctorate holders employed in academic institutions, by type of academic position, sex, race/ethnicity, and disability status: 2003

Academic position	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian	Black	Hispanic	American	No disability	With disability
								Indian/ Alaska Native		
All faculty	442,100	144,500	297,600	338,600	61,000	22,000	16,200	2,300	410,300	31,900
President, provost, chancellor	4,900	900	4,000	4,400	S	300	100	S	4,800	200
Dean, department head, chair	36,700	11,800	24,900	30,400	2,400	2,300	1,500	100	33,500	3,200
Research faculty	139,600	41,300	98,300	100,200	26,600	6,000	5,500	900	130,500	9,100
Teaching faculty	236,000	70,100	165,900	188,700	26,400	10,000	8,100	1,500	216,200	19,800
Adjunct faculty	22,600	9,600	13,000	19,000	1,900	800	500	S	19,300	3,300
Postdoc	30,000	11,400	18,600	17,000	10,600	1,000	1,400	S	29,000	1,000
Research assistant	3,200	900	2,300	1,200	1,800	S	100	S	3,100	S
Teaching assistant	600	200	400	400	200	S	S	S	600	S
Other	29,700	10,200	19,500	24,400	2,700	1,300	800	200	26,800	2,900

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. Respondents could answer "yes" to more than one category.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
Female	122,200	25,300	26,300	31,000	9,900	29,700
White	92,100	21,700	20,200	22,600	7,900	19,700
Asian	15,100	1,100	1,800	4,100	1,000	7,100
Black	8,900	1,600	3,400	1,900	400	1,600
Hispanic	4,900	700	800	1,700	500	1,100
American Indian/Alaska Native	600	100	100	300	S	100
Male	263,000	97,600	53,600	47,700	10,000	54,100
White	200,500	80,200	42,000	33,700	7,700	37,000
Asian	43,000	11,700	7,200	8,900	1,600	13,700
Black	8,600	2,300	2,500	1,900	500	1,400
Hispanic	8,700	2,500	1,600	2,600	200	1,800
American Indian/Alaska Native	1,600	700	300	300	S	200
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
Female	90,400	16,400	21,400	24,300	7,000	21,300
White	67,200	14,200	16,300	18,300	5,400	13,100
Asian	12,200	900	1,400	3,200	1,000	5,700
Black	6,300	700	2,900	1,000	300	1,300
Hispanic	3,800	400	600	1,400	300	1,000
American Indian/Alaska Native	600	100	100	300	S	100
Male	204,400	76,000	43,700	39,000	6,700	39,000
White	152,900	62,200	34,400	27,200	4,900	24,200
Asian	37,200	9,400	6,100	8,200	1,400	12,200
Black	6,200	1,700	1,600	1,600	200	1,000
Hispanic	6,400	1,900	1,300	1,500	100	1,500
American Indian/Alaska Native	1,300	700	200	300	S	100
Scientist	267,100	81,500	59,500	57,700	13,100	55,300
Female	87,100	15,900	20,900	23,000	6,700	20,500
White	65,000	13,800	16,000	17,600	5,100	12,700
Asian	11,600	900	1,300	3,000	1,000	5,400
Black	6,200	700	2,900	1,000	300	1,300
Hispanic	3,500	400	600	1,200	300	1,000
American Indian/Alaska Native	400	100	100	100	S	S
Male	180,000	65,600	38,600	34,600	6,400	34,800
White	136,300	54,900	30,800	24,400	4,700	21,500
Asian	31,400	7,100	5,100	7,000	1,300	10,900
Black	5,200	1,300	1,300	1,400	200	1,000
Hispanic	5,500	1,600	1,100	1,400	100	1,200
American Indian/Alaska Native	1,200	600	200	300	S	S
Biological/life scientist	112,900	29,700	22,200	23,000	5,400	32,600
Female	41,900	7,500	7,800	10,200	2,800	13,600
White	31,200	6,900	6,500	8,000	1,800	8,100
Asian	7,200	200	700	1,400	700	4,200
Black	1,600	200	300	400	100	600
Hispanic	1,700	200	300	500	200	600
American Indian/Alaska Native	200	S	S	S	S	S
Male	71,000	22,200	14,500	12,800	2,600	19,000
White	51,000	19,200	11,400	8,300	1,300	10,600
Asian	15,700	1,900	2,200	3,300	1,100	7,100
Black	1,600	300	300	500	S	400
Hispanic	2,400	600	400	500	S	800
American Indian/Alaska Native	300	S	S	S	S	S

TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
Computer and information scientist	14,800	3,500	3,400	3,600	600	3,600
Female	2,400	300	500	600	300	700
White	1,300	200	300	400	S	200
Asian	500	100	100	200	S	100
Black	500	S	100	S	S	S
Hispanic	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	12,400	3,200	2,900	3,000	400	2,900
White	8,700	2,500	1,900	2,100	300	1,800
Asian	2,900	600	800	700	S	800
Black	500	S	S	100	S	S
Hispanic	200	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Mathematical scientist	23,500	8,600	7,000	5,200	1,200	1,600
Female	6,600	1,000	3,000	1,600	500	500
White	3,400	900	800	1,000	300	400
Asian	1,000	100	200	500	100	S
Black	2,100	S	2,000	S	S	S
Hispanic	100	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	17,000	7,600	4,000	3,600	700	1,200
White	12,900	5,600	3,300	2,400	600	900
Asian	3,100	1,700	300	900	S	100
Black	400	100	100	100	S	S
Hispanic	600	200	200	200	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Physical scientist	41,900	13,800	7,600	8,400	1,800	10,400
Female	6,500	1,000	1,300	1,700	700	1,900
White	5,100	900	1,100	1,400	600	1,100
Asian	1,000	100	100	100	S	600
Black	200	S	S	100	S	S
Hispanic	200	100	S	100	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	35,400	12,700	6,300	6,700	1,100	8,500
White	28,100	10,600	5,300	5,600	1,000	5,600
Asian	5,800	1,500	700	800	S	2,700
Black	400	100	100	100	S	S
Hispanic	800	400	200	S	S	200
American Indian/Alaska Native	200	S	S	S	S	S
Psychologist	26,900	8,500	5,700	6,700	1,700	4,300
Female	13,500	2,300	3,100	4,100	1,200	2,700
White	11,100	1,800	2,700	3,400	1,100	2,100
Asian	700	S	100	200	S	200
Black	800	200	200	200	S	200
Hispanic	800	100	100	300	S	200
American Indian/Alaska Native	100	S	S	S	S	S
Male	13,400	6,200	2,600	2,500	500	1,600
White	12,200	5,800	2,300	2,200	500	1,300
Asian	200	100	S	S	S	S
Black	400	S	200	100	S	100
Hispanic	400	S	100	100	S	100
American Indian/Alaska Native	100	S	S	S	S	S
Social scientist	47,000	17,400	13,500	10,800	2,400	2,900
Female	16,200	3,700	5,200	4,800	1,200	1,200
White	12,900	3,100	4,600	3,400	1,000	800
Asian	1,200	200	200	500	100	100



TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
Black	900	300	200	300	S	100
Hispanic	800	100	100	400	S	200
American Indian/Alaska Native	100	S	S	S	S	S
Male	30,800	13,700	8,400	6,000	1,100	1,600
White	23,500	11,100	6,500	3,700	900	1,300
Asian	3,700	1,200	1,100	1,300	S	S
Black	2,000	700	600	500	S	100
Hispanic	1,100	400	100	400	S	100
American Indian/Alaska Native	500	200	S	S	S	S
Engineer	27,800	10,900	5,600	5,600	600	5,000
Female	3,300	500	500	1,300	300	800
White	2,200	400	400	700	300	400
Asian	600	S	S	200	S	300
Black	100	S	S	S	S	S
Hispanic	300	S	100	200	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	24,500	10,400	5,100	4,400	300	4,300
White	16,600	7,400	3,600	2,800	200	2,600
Asian	5,800	2,400	1,000	1,200	S	1,300
Black	1,000	400	300	200	S	S
Hispanic	900	300	300	100	S	300
American Indian/Alaska Native	S	S	S	S	S	S
S&E related occupations	14,500	3,200	1,300	1,900	800	7,300
Female	5,900	1,500	300	800	200	3,100
White	4,200	1,400	300	500	200	1,900
Asian	1,500	S	S	200	S	1,200
Black	200	S	S	100	S	S
Hispanic	100	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	8,600	1,700	1,000	1,100	600	4,100
White	6,300	1,400	900	800	400	2,800
Asian	1,900	S	S	200	S	1,200
Black	100	S	S	S	S	S
Hispanic	100	S	S	S	S	100
American Indian/Alaska Native	S	S	S	S	S	S
Non-S&E occupations	75,800	27,200	13,500	13,500	5,400	16,200
Female	25,900	7,400	4,600	5,900	2,700	5,300
White	20,700	6,100	3,600	3,900	2,400	4,700
Asian	1,400	200	400	700	S	200
Black	2,400	800	500	800	S	300
Hispanic	1,100	300	100	300	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	49,900	19,800	8,900	7,600	2,700	10,900
White	41,300	16,500	6,700	5,600	2,400	10,000
Asian	4,000	2,100	1,000	500	S	300
Black	2,300	600	900	300	S	300
Hispanic	2,200	600	200	1,100	S	300
American Indian/Alaska Native	200	S	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-28. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and tenure status: 2003

Occupation, race/ethnicity, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	385,200	169,100	66,300	48,500	101,300
White	292,600	139,400	47,800	35,000	70,300
Fewer than 10	105,500	15,100	36,700	15,000	38,600
10-19	75,000	44,000	9,100	8,400	13,500
20-29	64,500	44,900	1,700	7,200	10,600
30 or more	47,600	35,400	300	4,300	7,600
Asian	58,100	17,800	10,400	8,700	21,200
Fewer than 10	30,100	2,200	7,500	4,900	15,500
10-19	17,100	7,900	2,400	2,600	4,200
20-29	6,700	4,500	400	700	1,100
30 or more	4,200	3,200	S	500	400
Black	17,500	6,000	3,800	1,700	6,000
Fewer than 10	9,500	900	3,400	900	4,400
10-19	4,100	2,500	300	600	600
20-29	2,800	1,800	100	100	800
30 or more	1,100	700	S	S	200
Hispanic	13,600	4,600	3,100	2,700	3,200
Fewer than 10	7,800	1,000	2,600	1,900	2,300
10-19	3,800	1,900	500	700	700
20-29	1,100	800	S	100	200
30 or more	1,000	800	S	S	S
American Indian/Alaska Native	2,200	1,200	600	100	300
Fewer than 10	800	200	400	S	200
10-19	600	400	S	S	S
20-29	400	300	S	S	S
30 or more	400	300	S	S	S
S&E occupations	294,800	132,400	51,900	36,300	74,300
White	220,100	108,900	37,400	25,300	48,600
Fewer than 10	77,700	11,800	28,300	11,200	26,400
10-19	59,900	34,500	7,800	7,500	10,200
20-29	46,900	34,900	1,200	3,800	7,000
30 or more	35,700	27,700	200	2,800	5,000
Asian	49,400	14,700	9,000	7,800	17,900
Fewer than 10	26,000	1,800	6,300	4,500	13,400
10-19	14,100	6,400	2,100	2,300	3,300
20-29	5,600	3,800	400	600	800
30 or more	3,600	2,700	S	400	300
Black	12,400	4,100	2,500	1,100	4,800
Fewer than 10	7,100	500	2,100	500	4,000
10-19	3,000	1,900	300	400	400
20-29	1,600	1,200	S	S	300
30 or more	700	500	S	S	S
Hispanic	10,100	3,600	2,200	1,900	2,500
Fewer than 10	5,700	700	1,700	1,500	1,800
10-19	2,800	1,600	500	300	600
20-29	800	600	S	S	200
30 or more	800	700	S	S	S
American Indian/Alaska Native	1,900	1,100	600	S	300
Fewer than 10	800	200	400	S	100
10-19	400	300	S	S	S
20-29	400	300	S	S	S
30 or more	400	300	S	S	S
S&E-related occupations	14,500	2,300	1,000	3,200	8,100
White	10,500	1,900	700	2,500	5,400

TABLE H-28. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and tenure status: 2003

Occupation, race/ethnicity, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Fewer than 10	3,900	S	400	800	2,600
10-19	2,300	400	200	300	1,300
20-29	2,800	700	S	1,200	900
30 or more	1,400	600	S	200	600
Asian	3,400	300	200	500	2,400
Fewer than 10	2,000	S	S	300	1,600
10-19	1,100	S	S	S	700
20-29	200	S	S	S	S
30 or more	S	S	S	S	S
Black	300	S	S	100	100
Fewer than 10	200	S	S	S	100
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
Hispanic	200	S	S	S	100
Fewer than 10	100	S	S	S	100
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S
Fewer than 10	S	S	S	S	S
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
Non-S&E occupations	75,800	34,400	13,400	9,000	19,000
White	62,000	28,600	9,800	7,200	16,400
Fewer than 10	23,900	3,200	8,000	3,100	9,600
10-19	12,800	9,000	1,100	600	2,000
20-29	14,800	9,300	500	2,200	2,800
30 or more	10,400	7,100	S	1,300	2,000
Asian	5,400	2,800	1,300	400	900
Fewer than 10	2,100	400	1,100	S	400
10-19	2,000	1,500	S	S	200
20-29	900	600	S	S	200
30 or more	400	200	S	S	S
Black	4,700	1,900	1,300	500	1,000
Fewer than 10	2,200	400	1,300	300	300
10-19	1,000	700	S	200	200
20-29	1,100	600	S	S	500
30 or more	300	200	S	S	S
Hispanic	3,300	1,000	900	800	600
Fewer than 10	2,000	300	900	400	500
10-19	900	300	S	S	S
20-29	300	200	S	S	S
30 or more	200	100	S	S	S
American Indian/Alaska Native	200	S	S	S	S
Fewer than 10	S	S	S	S	S
10-19	100	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-30. Percentage of full-time ranked S&E doctorate holders employed in 4-year colleges or universities who are supported by federal grants or contracts, by occupation, sex, race/ethnicity, and disability status: 2003

(Percent)

Occupation	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian	Black	Hispanic	American	No disability	With disability
								Indian/ Alaska Native		
All occupations (number)	119,000	30,200	88,800	93,400	16,100	3,800	4,300	800	109,800	9,100
All occupations	42.3	35.8	45.0	42.5	45.8	28.0	42.9	41.3	42.1	44.0
S&E occupations	46.7	40.5	49.2	46.9	50.9	28.6	50.8	39.2	47.0	42.0
Scientist	44.8	39.4	47.2	45.0	48.6	26.0	48.7	44.3	45.1	40.2
Biological/life scientist	58.0	51.2	61.6	56.9	60.9	62.0	68.8	65.2	58.6	49.6
Computer and information scientist	45.4	33.5	47.4	43.6	47.1	50.0	71.4	S	45.8	39.7
Mathematical scientist	30.9	26.3	32.7	35.5	30.2	3.0	36.8	S	30.8	32.4
Physical scientist	60.1	53.6	61.2	59.6	63.4	37.3	69.9	72.4	60.6	51.9
Psychologist	30.8	32.7	29.1	30.4	37.2	22.3	37.5	46.7	30.9	29.5
Social scientist	21.5	22.3	21.2	23.1	17.8	15.7	9.8	S	21.1	25.7
Engineer	63.9	68.4	63.4	65.5	63.2	52.2	66.5	S	64.4	58.2
S&E-related occupations	43.7	35.2	48.9	45.0	30.2	45.8	S	S	41.4	77.9
Non-S&E occupations	24.9	20.3	27.2	25.4	16.5	25.6	23.4	S	22.6	47.0

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-31. Full-time natural science and engineering doctorate holders employed in 4-year colleges or universities, by sex, race, disability status, and number of refereed publications and patents since 1998: 2003

Sex, race/ethnicity, and disability status	Publications since 1998							Patents since 1998	
	Total	None	1 or 2	3-5	6-10	11-20	More than 20	No	Yes
Total	357,900	30,400	26,500	41,800	71,500	83,800	103,800	326,200	31,700
Female	110,300	10,800	10,800	14,400	24,000	26,100	24,200	104,200	6,000
Male	247,600	19,700	15,700	27,400	47,500	57,700	79,500	222,000	25,600
White	270,200	23,900	19,900	30,800	53,500	61,300	80,900	246,800	23,500
Asian	55,100	3,800	2,100	5,800	12,000	15,400	16,100	48,400	6,700
Black	16,500	1,600	3,400	3,400	3,300	2,600	2,200	16,100	400
Hispanic	12,900	1,000	900	1,700	2,100	3,500	3,700	12,100	800
American Indian/Alaskan Native	2,100	S	100	100	300	800	700	1,900	200
No disability	333,500	27,700	25,400	39,000	66,400	79,300	95,700	304,400	29,100
With disability	24,400	2,800	1,100	2,800	5,100	4,500	8,100	21,800	2,500

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Natural sciences includes biological, life, computer, mathematical, and physical sciences. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-32. Scientists and engineers employed in government, by managerial status, age, sex, race/ethnicity, and disability status: 2003

Primary or secondary work activity and age (years)	Race/ethnicity									
	Sex			Race/ethnicity					Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability
All ages	2,142,900	892,400	1,250,400	1,574,700	150,400	226,400	131,500	13,900	1,989,000	153,900
Managers	863,200	309,200	553,900	664,800	43,900	87,500	44,300	3,900	802,300	60,900
Nonmanagers	1,279,700	583,200	696,500	909,900	106,500	138,900	87,200	10,100	1,186,700	93,000
Percent who are managers	40.3	34.7	44.3	42.2	29.2	38.6	33.7	27.9	40.3	39.6
Younger than 35	457,200	214,000	243,200	330,100	30,500	46,300	33,400	4,600	445,500	11,700
Managers	145,500	55,600	89,900	112,000	7,700	14,000	8,400	S	139,400	6,100
Nonmanagers	311,700	158,500	153,300	218,100	22,900	32,400	25,100	4,000	306,100	5,600
Percent who are managers	31.8	26.0	37.0	33.9	25.1	30.2	25.0	S	31.3	52.2
35-44	582,600	243,500	339,100	401,800	43,600	71,500	46,800	4,400	552,600	30,000
Managers	234,800	94,000	140,700	171,500	12,600	28,400	13,900	2,200	225,600	9,100
Nonmanagers	347,800	149,500	198,300	230,300	31,000	43,000	32,900	2,200	327,000	20,800
Percent who are managers	40.3	38.6	41.5	42.7	28.8	39.8	29.7	49.7	40.8	30.5
45-54	714,600	295,900	418,700	543,100	46,900	72,900	37,800	2,600	647,300	67,300
Managers	322,700	116,200	206,400	255,600	14,500	30,500	14,800	S	294,000	28,700
Nonmanagers	391,900	179,700	212,300	287,500	32,500	42,400	23,000	2,200	353,400	38,600
Percent who are managers	45.2	39.3	49.3	47.1	30.8	41.8	39.2	S	45.4	42.7
55 or older	388,500	139,000	249,500	299,700	29,300	35,700	13,400	2,300	343,600	44,900
Managers	160,200	43,400	116,800	125,600	9,200	14,600	7,200	S	143,300	16,900
Nonmanagers	228,300	95,600	132,600	174,100	20,100	21,100	6,200	1,600	200,300	28,000
Percent who are managers	41.2	31.2	46.8	41.9	31.4	40.8	53.7	S	41.7	37.7

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Managers include anyone who reported management as either a primary or secondary work activity.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-33. Primary or secondary work activity of scientists and engineers employed in business or industry, by age, sex, race/ethnicity, and disability status: 2003

Age in years and work activity	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian	Black	Hispanic	American	No disability	With disability
								Indian/ Alaska Native		
All ages	9,677,900	3,198,700	6,479,100	7,472,200	1,121,900	421,000	477,900	33,400	9,202,600	475,300
Computer applications	1,961,900	539,600	1,422,300	1,396,300	361,300	77,700	89,900	3,100	1,873,600	88,300
Management/administration	3,589,800	986,500	2,603,300	2,928,300	291,900	142,700	154,500	13,800	3,435,200	154,600
Research and development	1,965,200	528,100	1,437,100	1,433,100	307,000	87,300	95,900	7,900	1,868,300	96,900
Teaching	439,200	257,600	181,600	355,400	29,700	28,900	18,200	1,900	420,000	19,200
Other	7,819,700	2,715,400	5,104,300	6,124,800	806,100	340,500	395,600	28,700	7,422,700	397,000
Younger than 35	2,574,700	1,044,000	1,530,700	1,851,000	397,400	120,100	145,300	4,900	2,516,500	58,200
Computer applications	646,400	180,400	466,000	402,200	173,400	22,900	33,200	1,500	630,300	16,000
Management/administration	822,900	292,500	530,400	629,000	90,800	36,900	42,600	1,400	808,100	14,800
Research and development	614,500	212,300	402,300	409,900	122,400	32,800	33,800	2,600	597,500	17,100
Teaching	104,000	72,900	31,100	82,500	8,200	5,700	4,600	S	102,400	1,600
Other	1,891,200	837,300	1,053,900	1,406,600	240,800	87,600	111,500	2,800	1,847,700	43,500
35-44	3,046,800	1,029,600	2,017,200	2,284,900	371,800	145,600	185,300	9,600	2,950,800	96,000
Computer applications	686,400	191,500	495,000	490,100	115,100	31,400	34,500	1,100	666,200	20,300
Management/administration	1,230,400	348,700	881,700	982,300	114,500	47,000	63,600	4,600	1,197,100	33,300
Research and development	644,800	170,700	474,100	447,400	112,300	33,100	37,300	1,700	626,000	18,800
Teaching	146,800	89,800	57,000	120,400	8,700	10,400	6,300	S	142,200	4,700
Other	2,389,200	860,000	1,529,200	1,816,500	257,500	117,700	150,400	7,600	2,312,700	76,400
45-54	2,583,000	810,500	1,772,500	2,096,700	232,500	114,600	99,100	13,500	2,404,100	178,900
Computer applications	426,100	118,100	308,000	334,800	51,700	19,600	15,300	S	398,100	27,900
Management/administration	1,031,700	262,000	769,700	876,200	59,200	43,500	33,300	6,600	967,300	64,400
Research and development	451,100	99,100	352,000	365,200	50,300	15,300	15,300	1,500	420,900	30,200
Teaching	122,400	72,400	50,000	102,100	6,000	8,200	4,800	S	114,600	7,800
Other	2,151,900	701,700	1,450,300	1,748,400	187,400	94,800	85,500	12,700	2,001,600	150,300
55 and older	1,473,300	314,500	1,158,800	1,239,700	120,200	40,800	48,100	5,400	1,331,200	142,100
Computer applications	203,000	49,600	153,400	169,200	21,100	3,700	6,900	S	179,000	24,000
Management/administration	504,800	83,400	421,400	440,700	27,500	15,300	15,000	1,200	462,700	42,100
Research and development	254,700	45,900	208,700	210,500	22,100	6,100	9,500	2,100	223,900	30,800
Teaching	65,900	22,400	43,500	50,500	6,700	4,500	2,500	S	60,900	5,100
Other	1,276,400	276,800	999,600	1,075,900	104,200	33,500	40,700	5,100	1,152,800	123,600

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Sum of primary/secondary work activity categories exceeds total because of multiple response. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-34. Median number of direct subordinates for managerial scientists and engineers employed in business or industry, by age, sex, race/ethnicity, and disability status: 2003

Sex, race/ethnicity, and disability status	All ages	Younger			
	(years)	than 35	35-44	45-54	55 or older
Total	6	4	6	8	7
Female	5	3	5	6	5
Male	7	4	7	9	8
White	6	4	7	8	7
Asian	5	3	5	6	7
Black	7	7	7	7	4
Hispanic	6	3	6	8	6
American Indian/Alaska Native	9	5	5	9	12
No disability	6	4	6	8	7
With disability	6	4	4	9	6

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).



TABLE H-35. Scientists and engineers employed full time in business or industry, by occupation, number of publications since 1998, applications for a U.S. patent since 1998, sex, race/ethnicity, and disability status: 2003

Occupation, publications, and patents	Race/ethnicity										
	Sex			Race/ethnicity						Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability	With disability	
<b>Publications since 1998</b>											
All occupations	8,850,100	2,611,800	6,238,300	6,772,600	1,055,700	398,700	453,600	29,800	8,433,200	416,900	
None	7,407,500	2,286,700	5,120,800	5,640,800	887,600	345,500	391,800	24,200	7,053,700	353,800	
1 or 2	645,400	163,400	482,000	515,100	72,300	24,500	25,200	2,100	614,500	30,900	
3 to 5	371,800	73,600	298,200	282,100	47,700	15,900	17,500	1,800	354,200	17,600	
6 to 10	221,200	59,400	161,900	170,500	26,400	7,000	9,300	700	214,100	7,100	
11 to 20	128,000	16,600	111,300	105,000	13,800	2,900	4,900	S	123,900	4,000	
More than 20	76,100	12,100	64,000	59,000	7,900	3,000	5,000	S	72,800	3,400	
<b>Patents since 1998</b>											
All natural scientists and engineers <sup>a</sup>	2,879,400	546,900	2,332,400	2,115,700	475,600	117,400	121,100	7,200	2,750,100	129,300	
No	2,610,900	521,400	2,089,500	1,910,600	427,600	113,000	113,600	6,700	2,493,200	117,700	
Yes	268,500	25,500	242,900	205,100	48,100	4,400	7,500	500	256,900	11,600	
Biological/life scientist	119,000	49,000	69,900	88,900	18,400	4,500	6,200	200	113,500	5,500	
No	100,800	43,600	57,200	76,300	13,500	4,300	5,800	S	96,000	4,800	
Yes	18,100	5,400	12,700	12,600	4,900	200	400	S	17,400	700	
Computer and information scientist	1,398,700	330,200	1,068,500	971,200	285,900	68,400	49,400	2,800	1,337,500	61,200	
No	1,325,000	321,800	1,003,200	916,100	272,500	66,400	47,900	2,700	1,266,900	58,100	
Yes	73,700	8,400	65,300	55,100	13,400	2,000	1,500	S	70,600	3,100	
Engineer	1,174,800	113,100	1,061,800	909,900	146,800	38,700	58,400	3,500	1,120,200	54,600	
No	1,027,000	105,500	921,500	793,600	123,300	37,200	53,200	3,200	979,600	47,400	
Yes	147,800	7,500	140,300	116,300	23,500	1,400	5,200	S	140,700	7,200	
Mathematical scientist	30,600	8,800	21,700	25,000	3,600	1,200	300	S	28,600	2,000	
No	29,100	8,800	20,300	23,700	3,400	1,200	200	S	27,200	1,900	
Yes	1,500	100	1,400	1,200	200	S	S	S	1,400	S	
Physical scientist	156,300	45,800	110,500	120,600	21,000	4,500	6,900	800	150,200	6,100	
No	129,000	41,700	87,300	100,800	14,900	3,800	6,500	700	123,500	5,500	
Yes	27,300	4,200	23,100	19,800	6,100	700	400	S	26,700	600	

S = suppressed because fewer than 50 weighted cases.

<sup>a</sup> The prevalence of patents by social scientists was so low they were excluded from this analysis, as were those in S&E related and non-S&E occupations.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/Other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-37. Demographic characteristics of employed S&E doctorate holders, by race/ethnicity and sex: 2003

Demographic characteristic	All races/ethnicities			White			Asian			Black			Hispanic			American Indian/ Alaska Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed scientists and engineers (number)	883,700	256,900	626,900	660,900	192,700	468,200	151,200	35,100	116,100	34,500	14,800	19,700	29,300	10,900	18,400	4,400	1,400	3,000
Age in 2003 (years)																		
29 and younger	16,000	8,200	7,800	10,100	4,800	5,400	2,800	1,000	1,800	2,200	2,200	S	800	100	600	S	S	S
30–39	194,000	67,500	126,400	124,800	45,500	79,400	51,700	14,000	37,700	7,400	3,800	3,600	8,800	3,500	5,200	800	500	300
40–49	258,500	79,200	179,300	180,900	58,100	122,800	56,900	13,900	43,000	9,600	3,000	6,600	8,800	3,100	5,700	1,200	400	800
50 and older	415,200	101,900	313,300	345,100	84,400	260,700	39,800	6,200	33,600	15,300	5,800	9,500	10,900	4,100	6,800	2,400	600	1,800
Disability status																		
No disability	824,600	241,100	583,500	613,300	180,900	432,400	144,000	32,700	111,300	32,600	14,100	18,500	27,600	10,300	17,300	3,800	1,200	2,600
With disability	59,200	15,800	43,400	47,600	11,900	35,800	7,200	2,400	4,800	1,900	700	1,200	1,700	600	1,100	600	200	500
Marital status																		
Married	716,900	183,600	533,200	536,900	138,400	398,500	127,800	26,700	101,200	23,300	7,900	15,400	22,400	7,600	14,800	3,500	1,200	2,300
Widowed	10,000	5,900	4,200	7,700	4,500	3,300	1,100	500	600	500	400	S	700	S	200	S	S	S
Separated	8,700	3,400	5,300	6,400	2,100	4,300	1,100	400	600	500	300	200	700	600	100	S	S	S
Divorced	55,600	23,900	31,600	44,100	19,400	24,700	5,100	1,500	3,600	4,200	2,200	2,000	1,500	700	800	500	100	400
Never married	92,500	40,000	52,500	65,800	28,400	37,400	16,000	6,000	10,100	6,000	4,000	2,000	4,000	1,500	2,500	300	100	200
If married, spouse's employment status																		
Employed	509,500	160,100	349,400	383,800	120,100	263,800	87,900	24,400	63,500	17,100	6,800	10,300	15,700	6,300	9,300	2,600	1,000	1,700
Full time	393,700	147,000	246,700	287,600	109,000	178,600	73,800	23,100	50,700	15,000	6,500	8,500	13,000	6,100	6,900	2,200	900	1,300
Part time	115,800	13,100	102,700	96,300	11,100	85,200	14,100	1,300	12,900	2,100	300	1,800	2,700	300	2,400	500	100	300
Not employed	207,400	23,600	183,800	153,000	18,400	134,700	39,900	2,300	37,600	6,200	1,100	5,100	6,800	1,300	5,500	800	200	700
If spouse is employed, field in which spouse's job required bachelor's in <sup>a</sup>																		
Engineering, computer sciences, or natural sciences	183,000	77,800	105,200	120,000	53,000	67,000	51,700	17,700	33,900	5,100	3,400	1,700	4,900	3,000	1,900	800	400	400
Social sciences	106,600	31,400	75,200	85,400	25,900	59,500	12,800	2,900	9,900	3,600	700	2,900	3,900	1,500	2,400	600	200	400
Other	253,200	64,000	189,200	200,200	49,500	150,700	32,000	7,500	24,500	10,000	2,900	7,100	8,100	2,900	5,200	1,500	400	1,100
Children living in household																		
No	456,900	140,900	316,000	362,100	110,000	252,000	59,100	15,400	43,700	17,100	7,900	9,300	14,200	5,800	8,400	2,500	800	1,800
Yes	426,800	115,900	310,900	298,900	82,700	216,200	92,000	19,700	72,300	17,400	6,900	10,400	15,100	5,100	10,000	1,900	600	1,300
Citizenship																		
U.S. citizen	746,200	224,300	521,900	606,200	180,600	425,600	84,200	20,700	63,500	27,300	12,000	15,300	21,300	7,800	13,500	4,400	1,400	3,000
Native	603,000	189,500	413,500	550,500	165,900	384,600	10,300	4,000	6,400	21,100	10,600	10,400	14,500	5,900	8,600	4,400	1,400	3,000
Naturalized	143,200	34,900	108,400	55,600	14,600	41,000	73,900	16,700	57,200	6,200	1,300	4,900	6,800	1,900	4,900	S	S	S

TABLE H-37. Demographic characteristics of employed S&E doctorate holders, by race/ethnicity and sex: 2003

Demographic characteristic	All races/ethnicities			White			Asian			Black			Hispanic			American Indian/ Alaska Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Non-U.S. citizen	137,500	32,500	105,000	54,800	12,200	42,600	66,900	14,400	52,500	7,200	2,800	4,400	8,000	3,100	4,800	S	S
Permanent resident	92,000	22,800	69,200	38,500	8,300	30,300	41,500	9,600	31,900	6,200	2,600	3,600	5,400	2,300	3,000	S	S	S
Temporary resident	45,400	9,600	35,700	16,200	3,900	12,300	25,400	4,700	20,600	1,100	200	800	2,600	800	1,800	S	S	S

<sup>a</sup> Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).