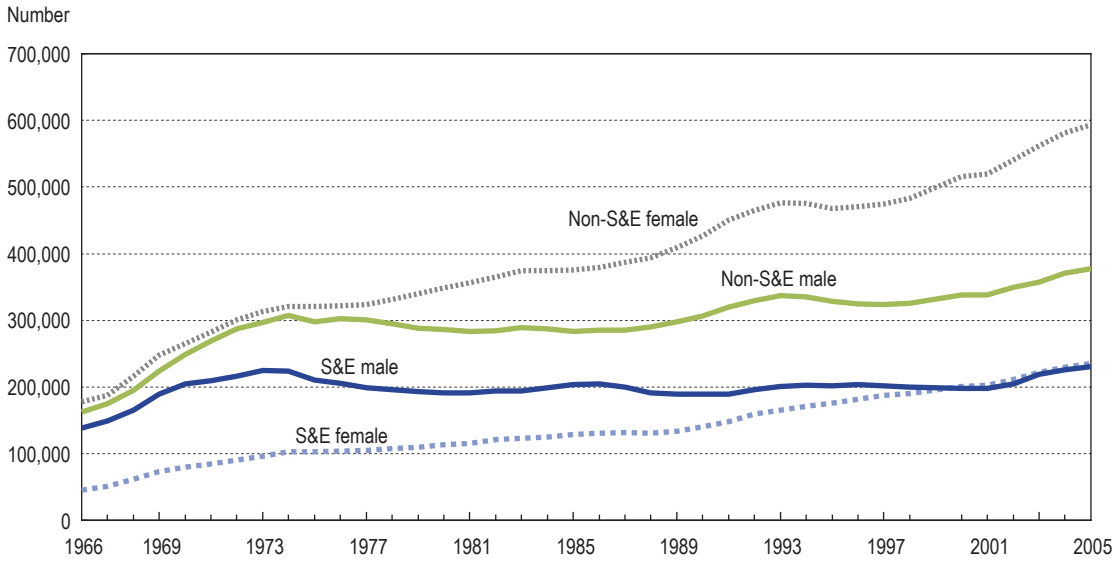


**FIGURE C-1. Bachelor's degrees awarded in S&E and non-S&E fields, by sex: 1966–2005**



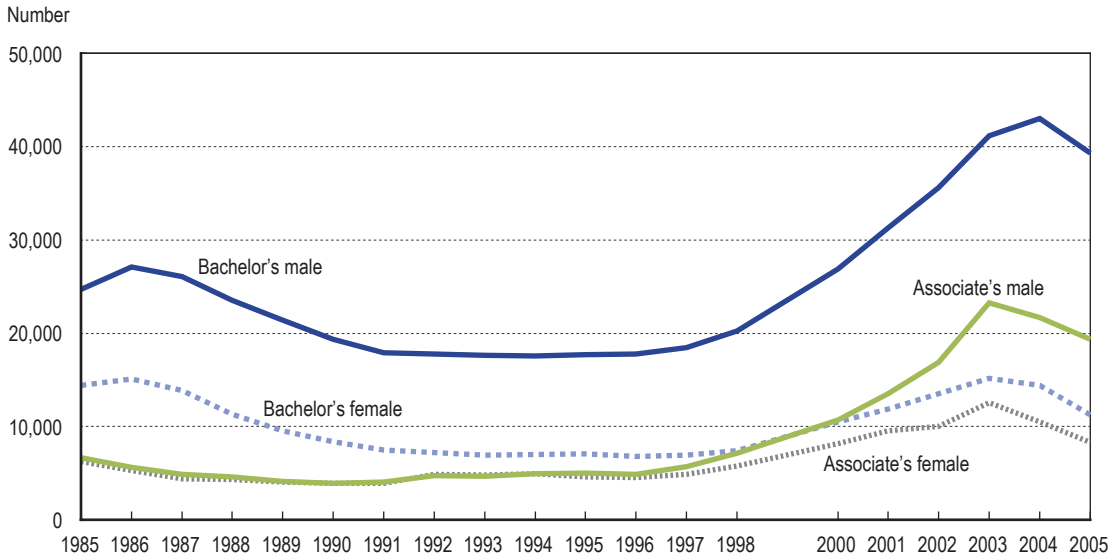
NOTE: National data not available for 1999.

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, 1966–2005.

Beginning in 2000, men and women earned roughly similar numbers of S&E bachelor's degrees.

- Women earned half of S&E bachelor's in 2005, up from 25% in 1966.
- The number of bachelor's degrees in S&E awarded to men fluctuated around 200,000 from 1976 to about 2002 and increased since then, reaching 230,806 in 2005.
- Women earn substantially more bachelor's degrees in non-S&E fields than men.

**FIGURE C-2. Bachelor's and associate's degrees awarded in computer sciences, by sex, 1985–2005**



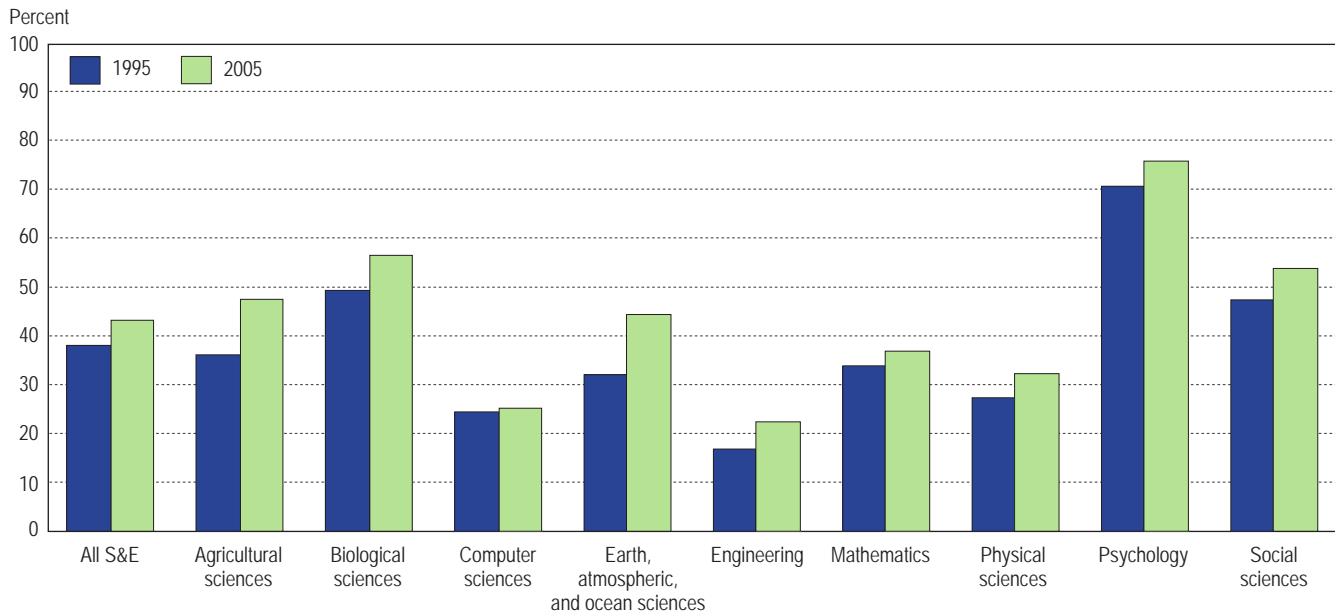
NOTE: National data not available for 1999.

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, 1985–2005.

Women are a decreasing share of computer science degree earners.

- The percentage of bachelor's computer science degrees earned by women dropped from 37% in 1985 to 22% in 2005.
- The percentage of associate's degrees in computer science earned by women dropped from 49% in 1985 to 30% in 2005.
- In 2005, the numbers of computer science degrees earned by both men and women dropped sharply.

FIGURE D-1. Female share of S&E graduate students, by field: 1995 and 2005

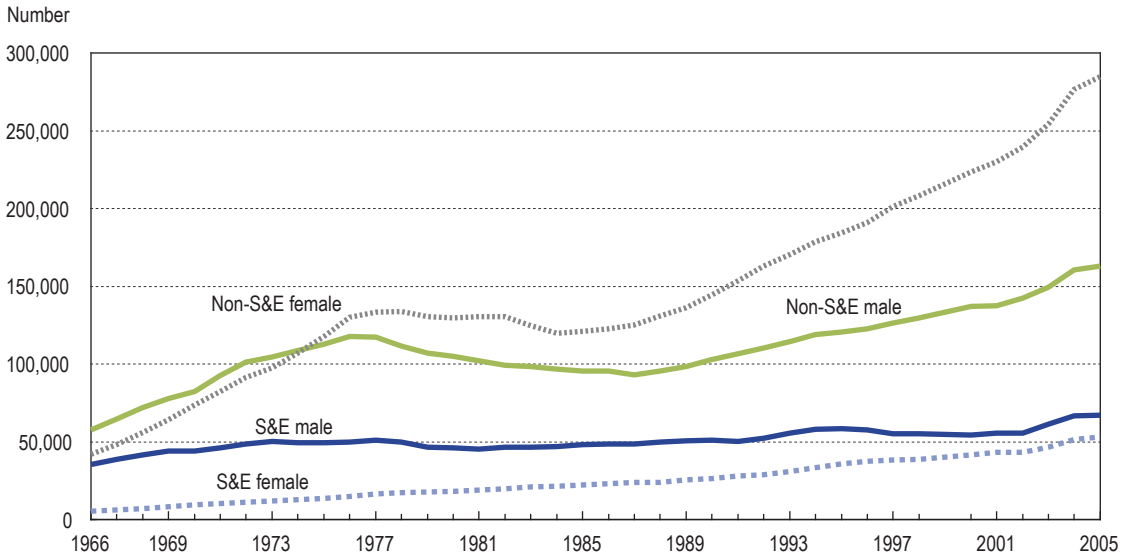


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1995 and 2005.

Women constituted a greater percentage of graduate students in S&E in 2005 (43%) than in 1995 (38%).

- Women accounted for more than half of all graduate students in some science fields. In 2005, women made up 76% of the graduate students in psychology, 56% in biological sciences, and 54% in social sciences.
- Women accounted for 22% of graduate students in engineering and 25% of graduate students in computer sciences in 2005.
- Roughly 35%–45% of the graduate students in most other science fields were female.
- Women made the most gains between 1995 and 2005 in agricultural sciences and earth, atmospheric, and ocean sciences and the least gain in computer sciences.

**FIGURE E-1. Master's degrees awarded in S&E and non-S&E fields, by sex: 1966–2005**



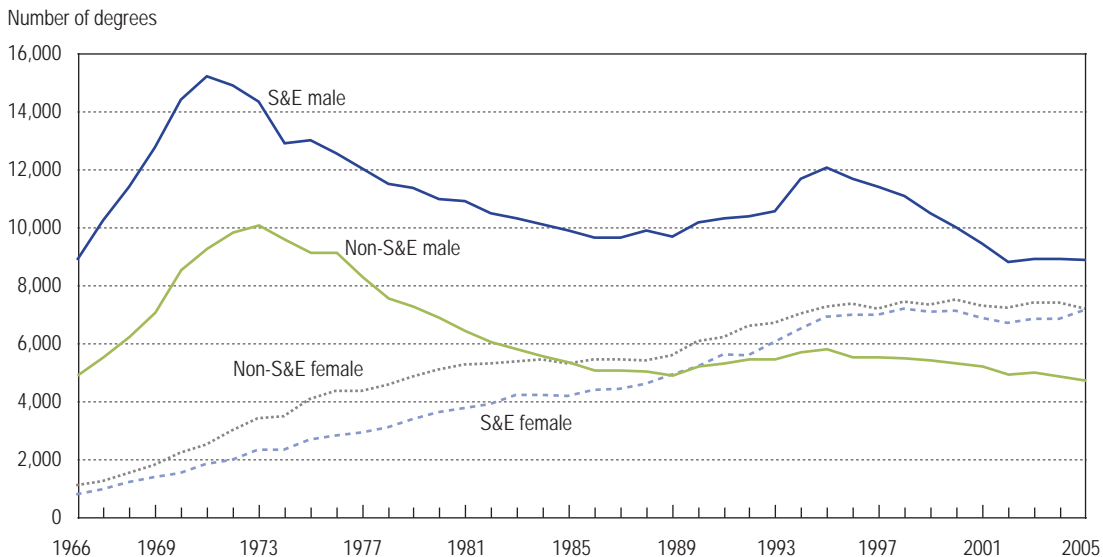
NOTE: National data not available for 1999.

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, 1966–2005.

The number of master's degrees earned by women rose more rapidly than for men.

- The number of S&E master's degrees awarded annually to women rose almost 10-fold from 5,469 in 1966 to 53,051 in 2005.
- In 2005, women earned 44% of S&E master's degrees and 64% of non-S&E master's degrees.
- The number of S&E master's degrees awarded to men rose from 35,580 in 1966 to 66,974 in 2005.

FIGURE F-1. Doctoral degrees awarded in S&E and non-S&E fields to U.S. citizens and permanent residents, by sex: 1966-2005

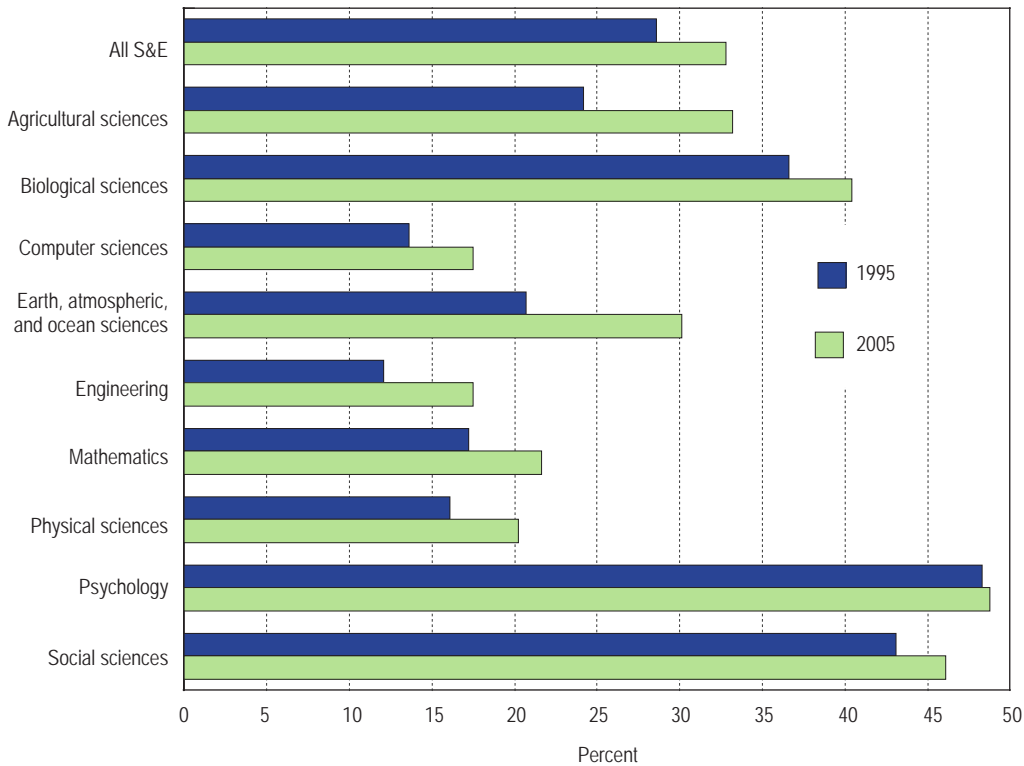


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1966-2005.

Both the number of U.S. citizen and permanent resident women earning doctoral degrees and their percentage of total awards in S&E and non-S&E fields rose between 1966 and 2005.

- The number of U.S. citizen and permanent resident women earning S&E doctorates rose from 785 in 1966 to 6,913 in 1995 and remained at approximately 7,000 doctorates per year through 2005.
- The number of U.S. citizen and permanent resident men earning S&E doctoral degrees dropped from 1971 through the late 1980s and again from 1995 through 2002.
- By 2005, women earned 45% of S&E and 61% of non-S&E doctoral degrees to U.S. citizens and permanent residents, up from 8% and 18%, respectively, in 1966.

FIGURE G-1. Female share of S&E postdoctoral fellows, by field: 1995 and 2005

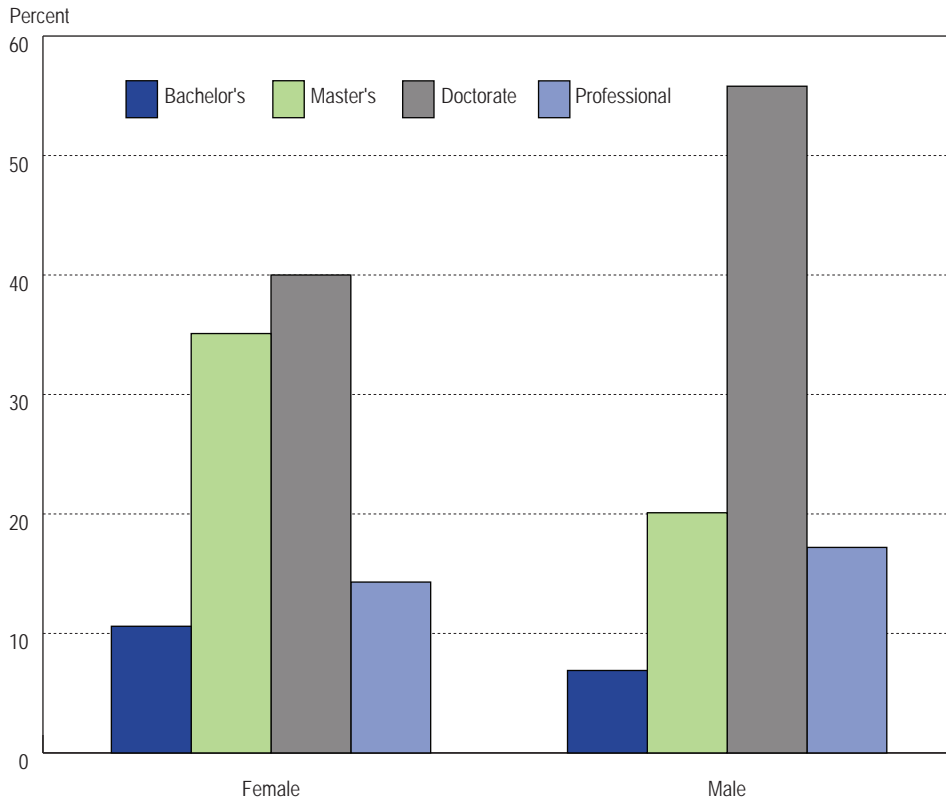


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1995 and 2005.

Women accounted for one-third of S&E postdocs in S&E in 2005, up from 29% in 1995.

- Almost half (49%) of psychology postdocs, 46% of social sciences postdocs, and 40% of biological sciences postdocs were women.
- Roughly 20% or less of postdocs in computer sciences, engineering, mathematics, and physical sciences were women.

FIGURE H-3. Science and engineering faculty, by sex and highest degree: 2003



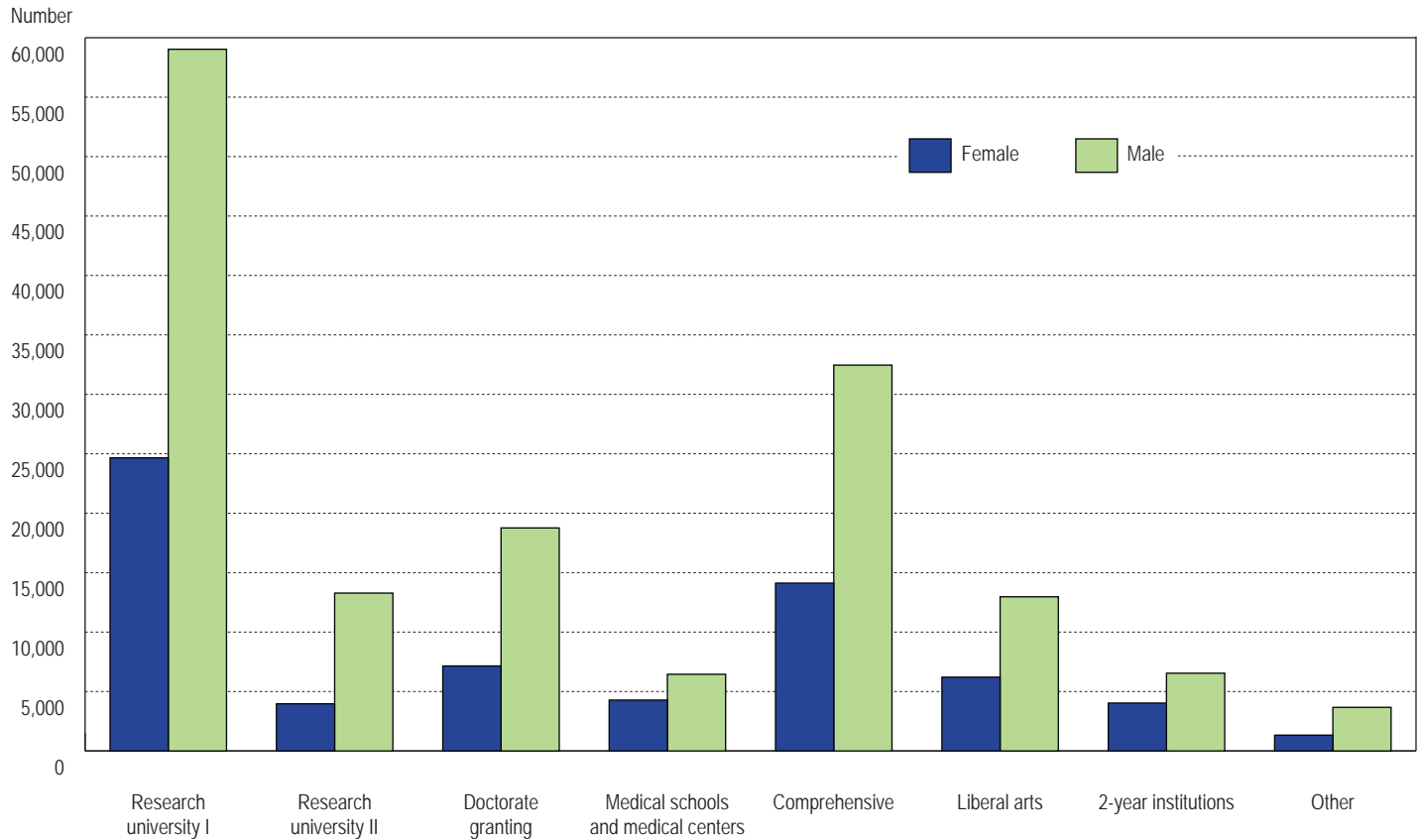
NOTE: Includes full, associate, and assistant professors and instructors.

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

Male science and engineering faculty are more likely than their female counterparts to have doctoral degrees.

- More than half (56 percent) of male S&E faculty have doctoral degrees, compared with 40 percent of female S&E faculty.
- Thirty-five percent of female S&E faculty, compared with 20 percent of male S&E faculty, have a master's as the highest degree.

FIGURE H-5. Doctoral science and engineering faculty, by sex and Carnegie classification of employer: 2003



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

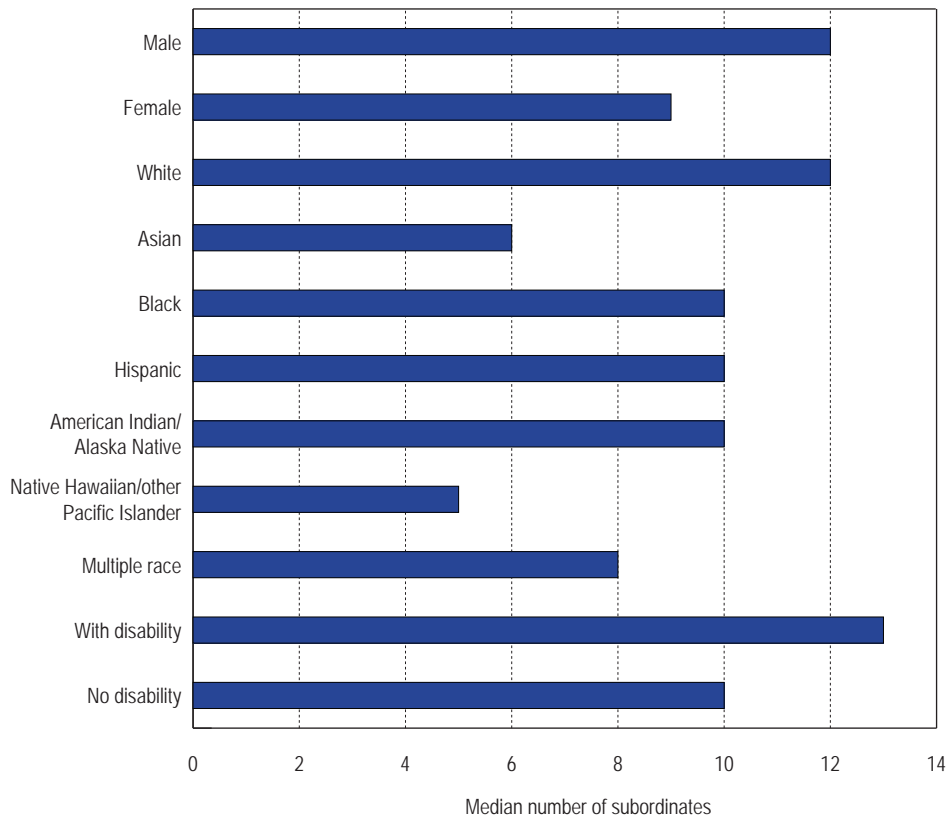
SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Male doctoral S&E faculty outnumber female S&E faculty by more than 2 to 1.

- Research I institutions were the largest employer of male and female doctoral S&E faculty in 2003.
- Almost 60,000 male doctoral S&E faculty were employed in Research I institutions in 2003, compared with about 25,000 female S&E faculty.
- Comprehensive institutions employed 32,000 male doctoral S&E faculty and 14,000 female S&E faculty.



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-1. Resident population of United States, by age and sex: 2004

| Age (years)    | All residents | Female      |         | Male        |         |
|----------------|---------------|-------------|---------|-------------|---------|
|                |               | Number      | Percent | Number      | Percent |
| All ages       | 293,655,404   | 149,117,996 | 50.8    | 144,537,408 | 49.2    |
| Younger than 5 | 20,071,268    | 9,808,276   | 48.9    | 10,262,992  | 51.1    |
| 5-9            | 19,605,572    | 9,576,431   | 48.8    | 10,029,141  | 51.2    |
| 10-14          | 21,145,156    | 10,314,017  | 48.8    | 10,831,139  | 51.2    |
| 15-19          | 20,729,802    | 10,094,406  | 48.7    | 10,635,396  | 51.3    |
| 20-24          | 20,971,302    | 10,168,312  | 48.5    | 10,802,990  | 51.5    |
| 25-29          | 19,560,906    | 9,566,092   | 48.9    | 9,994,814   | 51.1    |
| 30-34          | 20,471,032    | 10,129,813  | 49.5    | 10,341,219  | 50.5    |
| 35-39          | 21,052,318    | 10,481,803  | 49.8    | 10,570,515  | 50.2    |
| 40-44          | 23,056,334    | 11,592,968  | 50.3    | 11,463,366  | 49.7    |
| 45-49          | 22,122,629    | 11,204,884  | 50.6    | 10,917,745  | 49.4    |
| 50-54          | 19,496,176    | 9,961,248   | 51.1    | 9,534,928   | 48.9    |
| 55-59          | 16,489,501    | 8,488,082   | 51.5    | 8,001,419   | 48.5    |
| 60-64          | 12,589,423    | 6,591,409   | 52.4    | 5,998,014   | 47.6    |
| 65-69          | 9,956,467     | 5,323,518   | 53.5    | 4,632,949   | 46.5    |
| 70-74          | 8,507,005     | 4,712,328   | 55.4    | 3,794,677   | 44.6    |
| 75-79          | 7,410,757     | 4,312,118   | 58.2    | 3,098,639   | 41.8    |
| 80-84          | 5,560,125     | 3,440,533   | 61.9    | 2,119,592   | 38.1    |
| 85-89          | 3,079,324     | 2,043,932   | 66.4    | 1,035,392   | 33.6    |
| 90-94          | 1,349,800     | 972,477     | 72.0    | 377,323     | 28.0    |
| 95-99          | 369,671       | 286,417     | 77.5    | 83,254      | 22.5    |
| 100 and older  | 60,836        | 48,932      | 80.4    | 11,904      | 19.6    |
| Age groups     |               |             |         |             |         |
| 5-13 years     | 36,375,652    | 17,758,554  | 48.8    | 18,617,098  | 51.2    |
| 14-17 years    | 16,831,078    | 8,206,020   | 48.8    | 8,625,058   | 51.2    |
| 18-24 years    | 29,245,102    | 14,188,592  | 48.5    | 15,056,510  | 51.5    |
| 16 and older   | 228,621,674   | 117,365,320 | 51.3    | 111,256,354 | 48.7    |
| 18 and older   | 220,377,406   | 113,345,146 | 51.4    | 107,032,260 | 48.6    |
| 15-44          | 125,841,694   | 62,033,394  | 49.3    | 63,808,300  | 50.7    |
| 65 and older   | 36,293,985    | 21,140,255  | 58.2    | 15,153,730  | 41.8    |
| 85 and older   | 4,859,631     | 3,351,758   | 69.0    | 1,507,873   | 31.0    |

NOTE: Age categories drawn from published Census tables.

SOURCE: U.S. Census Bureau, Population Division, Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2004 (NC-EST2004-01).

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/<br>agricultural<br>sciences | Computer<br>sciences | Engineering | Mathematics/<br>statistics | Physical<br>sciences | Social/<br>behavioral<br>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            | Female | Male    | White   | Asian  | Black  | Hispanic | Native | Foreign |
|-------------------------------------|----------------|--------|---------|---------|--------|--------|----------|--------|---------|
|                                     | undergraduates |        |         |         |        |        |          |        |         |
| 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            | Total   | White   | Asian  | Black  | Hispanic | Native | Foreign |
|-----------------------|----------------|---------|---------|--------|--------|----------|--------|---------|
|                       | undergraduates |         |         |        |        |          |        |         |
| 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-1. Associate's degrees, by field and sex: 1996–2005

| Field and sex                          | 1996    | 1997    | 1998    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Both sexes</b>                      |         |         |         |         |         |         |         |         |         |
| 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 |
| <b>Female</b>                          |         |         |         |         |         |         |         |         |         |
| All fields                             | 327,554 | 333,333 | 333,303 | 327,720 | 332,035 | 338,606 | 359,140 | 375,374 | 395,233 |
| S&E                                    | 12,393  | 13,135  | 14,041  | 16,465  | 17,948  | 18,781  | 21,553  | 20,354  | 18,343  |
| Sciences                               | 12,124  | 12,864  | 13,718  | 16,227  | 17,651  | 18,510  | 21,264  | 19,879  | 18,055  |
| Agricultural sciences                  | 645     | 669     | 740     | 784     | 781     | 758     | 765     | 705     | 641     |
| Biological sciences                    | 1,244   | 1,392   | 1,383   | 974     | 1,022   | 1,035   | 1,204   | 1,142   | 1,311   |
| Computer sciences                      | 4,539   | 4,912   | 5,762   | 8,201   | 9,565   | 10,014  | 12,563  | 10,522  | 8,287   |
| Earth, atmospheric, and ocean sciences | 58      | 65      | 52      | 58      | 58      | 21      | 63      | 19      | 65      |
| Mathematics and statistics             | 295     | 349     | 353     | 263     | 243     | 240     | 268     | 296     | 275     |
| Physical sciences                      | 730     | 807     | 811     | 671     | 552     | 610     | 509     | 669     | 624     |
| Psychology                             | 1,179   | 1,230   | 1,157   | 1,119   | 1,183   | 1,324   | 1,329   | 1,440   | 1,484   |
| Social sciences                        | 3,434   | 3,440   | 3,460   | 4,157   | 4,247   | 4,508   | 4,563   | 5,086   | 5,368   |
| Engineering                            | 269     | 271     | 323     | 238     | 297     | 271     | 289     | 475     | 288     |
| Non-S&E                                | 315,161 | 320,198 | 319,262 | 311,255 | 314,087 | 319,825 | 337,587 | 355,020 | 376,890 |
| Engineering technologies               | 5,035   | 5,231   | 5,214   | 5,465   | 5,666   | 5,020   | 5,676   | 4,540   | 4,504   |
| Other non-S&E                          | 310,126 | 314,967 | 314,048 | 305,790 | 308,421 | 314,805 | 331,911 | 350,480 | 372,386 |
| <b>Male</b>                            |         |         |         |         |         |         |         |         |         |
| All fields                             | 213,090 | 212,698 | 215,888 | 216,156 | 220,011 | 215,129 | 236,083 | 230,029 | 245,677 |
| S&E                                    | 12,207  | 12,636  | 14,605  | 17,186  | 20,115  | 23,419  | 30,229  | 29,066  | 27,343  |
| Sciences                               | 10,428  | 11,019  | 12,821  | 15,694  | 18,621  | 22,043  | 28,702  | 27,401  | 25,559  |
| Agricultural sciences                  | 1,250   | 1,196   | 1,267   | 1,159   | 1,302   | 1,225   | 1,228   | 1,236   | 1,234   |
| Biological sciences                    | 830     | 789     | 793     | 494     | 497     | 484     | 579     | 607     | 674     |
| Computer sciences                      | 4,862   | 5,720   | 7,137   | 10,727  | 13,541  | 16,902  | 23,226  | 21,654  | 19,354  |
| Earth, atmospheric, and ocean sciences | 131     | 126     | 128     | 116     | 123     | 37      | 123     | 21      | 117     |
| Mathematics and statistics             | 464     | 444     | 490     | 407     | 449     | 443     | 465     | 501     | 526     |
| Physical sciences                      | 830     | 733     | 707     | 600     | 584     | 674     | 576     | 876     | 932     |
| Psychology                             | 405     | 376     | 603     | 326     | 355     | 367     | 437     | 429     | 443     |
| Social sciences                        | 1,656   | 1,635   | 1,696   | 1,865   | 1,770   | 1,911   | 2,068   | 2,077   | 2,279   |
| Engineering                            | 1,779   | 1,617   | 1,784   | 1,492   | 1,494   | 1,376   | 1,527   | 1,665   | 1,784   |
| Non-S&E                                | 200,883 | 200,062 | 201,283 | 198,970 | 199,896 | 191,710 | 205,854 | 200,963 | 218,334 |
| Engineering technologies               | 30,947  | 29,990  | 29,949  | 30,079  | 29,747  | 26,537  | 28,331  | 25,141  | 24,265  |
| Other non-S&E                          | 169,936 | 170,072 | 171,334 | 168,891 | 170,149 | 165,173 | 177,523 | 175,822 | 194,069 |

NOTE: 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-<br>neering | S&E    | All Agricultural<br>sciences | Agricultural<br>sciences | Biological<br>sciences | Computer<br>sciences | Earth,<br>atmospheric,<br>and ocean<br>sciences | Mathe-<br>matics<br>and<br>statistics | Physical<br>sciences | Psy-<br>chology | Social<br>sciences | All S&E<br>tech-<br>nologies | Engi-<br>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-4. Bachelor's degrees, by sex and field: 1996–2005

| Sex and year      | Sciences   |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
|-------------------|------------|---------|---------|------------------------|---------------------|-------------------|--|-----------------------------|-------------------|-------------|-----------------|-------------|---------|
|                   | All fields | S&E     | Total   | Sciences               |                     |                   |  |                             |                   |             | Social sciences | Engineering | Non-S&E |
|                   |            |         |         | Agri-cultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathe-matics and statistics | Physical sciences | Psych-ology |                 |             |         |
| Number of degrees |            |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
| Both sexes        |            |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
| 1996              | 1,179,815  | 384,674 | 321,560 | 16,388                 | 62,081              | 24,545            | 4,457                                  | 13,076                      | 15,396            | 73,828      | 111,789         | 63,114      | 795,141 |
| 1997              | 1,186,589  | 388,482 | 326,130 | 17,361                 | 65,139              | 25,393            | 4,466                                  | 12,723                      | 15,264            | 74,734      | 111,050         | 62,352      | 798,107 |
| 1998              | 1,199,579  | 390,618 | 329,704 | 17,967                 | 67,112              | 27,674            | 4,321                                  | 12,094                      | 15,273            | 74,457      | 110,806         | 60,914      | 808,961 |
| 2000              | 1,253,121  | 398,622 | 339,086 | 18,244                 | 64,904              | 37,388            | 4,047                                  | 11,735                      | 14,580            | 74,654      | 113,534         | 59,536      | 854,499 |
| 2001              | 1,257,648  | 400,206 | 340,948 | 17,467                 | 62,089              | 43,184            | 3,968                                  | 11,455                      | 14,163            | 74,168      | 114,454         | 59,258      | 857,442 |
| 2002              | 1,305,730  | 415,611 | 354,972 | 17,360                 | 61,768              | 49,135            | 3,984                                  | 12,273                      | 14,016            | 77,323      | 119,113         | 60,639      | 890,119 |
| 2003              | 1,359,843  | 441,087 | 377,314 | 17,693                 | 63,582              | 56,329            | 3,949                                  | 12,882                      | 14,122            | 79,115      | 129,642         | 63,773      | 918,756 |
| 2004              | 1,407,009  | 455,848 | 391,173 | 17,041                 | 64,762              | 57,405            | 3,903                                  | 13,755                      | 14,240            | 82,510      | 137,557         | 64,675      | 951,161 |
| 2005              | 1,437,200  | 466,003 | 399,870 | 17,111                 | 67,982              | 50,564            | 3,959                                  | 14,840                      | 15,030            | 85,936      | 144,448         | 66,133      | 971,197 |
| Female            |            |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
| 1996              | 651,815    | 181,333 | 170,017 | 6,504                  | 32,865              | 6,772             | 1,485                                  | 5,992                       | 5,702             | 53,863      | 56,834          | 11,316      | 470,482 |
| 1997              | 661,307    | 187,011 | 175,541 | 7,267                  | 35,266              | 6,903             | 1,542                                  | 5,889                       | 5,882             | 55,243      | 57,549          | 11,470      | 474,296 |
| 1998              | 673,865    | 190,397 | 179,058 | 7,743                  | 37,101              | 7,439             | 1,599                                  | 5,659                       | 5,994             | 55,400      | 58,123          | 11,339      | 483,468 |
| 2000              | 716,963    | 200,953 | 188,737 | 8,464                  | 37,958              | 10,474            | 1,617                                  | 5,604                       | 5,990             | 57,114      | 61,516          | 12,216      | 516,010 |
| 2001              | 721,625    | 202,583 | 190,669 | 8,491                  | 37,084              | 11,900            | 1,622                                  | 5,497                       | 5,911             | 57,467      | 62,697          | 11,914      | 519,042 |
| 2002              | 751,773    | 211,203 | 198,516 | 8,634                  | 37,695              | 13,504            | 1,702                                  | 5,762                       | 5,982             | 59,926      | 65,311          | 12,687      | 540,570 |
| 2003              | 783,866    | 222,389 | 209,419 | 8,959                  | 39,533              | 15,190            | 1,651                                  | 5,879                       | 5,884             | 61,499      | 70,824          | 12,970      | 561,477 |
| 2004              | 810,817    | 229,939 | 216,682 | 8,714                  | 40,440              | 14,406            | 1,647                                  | 6,318                       | 6,002             | 64,208      | 74,947          | 13,257      | 580,878 |
| 2005              | 828,938    | 235,197 | 222,000 | 8,731                  | 42,283              | 11,235            | 1,660                                  | 6,625                       | 6,420             | 66,833      | 78,213          | 13,197      | 593,741 |
| Male              |            |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
| 1996              | 528,000    | 203,341 | 151,543 | 9,884                  | 29,216              | 17,773            | 2,972                                  | 7,084                       | 9,694             | 19,965      | 54,955          | 51,798      | 324,659 |
| 1997              | 525,282    | 201,471 | 150,589 | 10,094                 | 29,873              | 18,490            | 2,924                                  | 6,834                       | 9,382             | 19,491      | 53,501          | 50,882      | 323,811 |
| 1998              | 525,714    | 200,221 | 150,646 | 10,224                 | 30,011              | 20,235            | 2,722                                  | 6,435                       | 9,279             | 19,057      | 52,683          | 49,575      | 325,493 |
| 2000              | 536,158    | 197,669 | 150,349 | 9,780                  | 26,946              | 26,914            | 2,430                                  | 6,131                       | 8,590             | 17,540      | 52,018          | 47,320      | 338,489 |
| 2001              | 536,023    | 197,623 | 150,279 | 8,976                  | 25,005              | 31,284            | 2,346                                  | 5,958                       | 8,252             | 16,701      | 51,757          | 47,344      | 338,400 |
| 2002              | 553,957    | 204,408 | 156,456 | 8,726                  | 24,073              | 35,631            | 2,282                                  | 6,511                       | 8,034             | 17,397      | 53,802          | 47,952      | 349,549 |
| 2003              | 575,977    | 218,698 | 167,895 | 8,734                  | 24,049              | 41,139            | 2,298                                  | 7,003                       | 8,238             | 17,616      | 58,818          | 50,803      | 357,279 |
| 2004              | 596,192    | 225,909 | 174,491 | 8,327                  | 24,322              | 42,999            | 2,256                                  | 7,437                       | 8,238             | 18,302      | 62,610          | 51,418      | 370,283 |
| 2005              | 608,262    | 230,806 | 177,870 | 8,380                  | 25,699              | 39,329            | 2,299                                  | 8,215                       | 8,610             | 19,103      | 66,235          | 52,936      | 377,456 |
| Percent female    |            |         |         |                        |                     |                   |  |                             |                   |             |                 |             |         |
| 1996              | 55.2       | 47.1    | 52.9    | 39.7                   | 52.9                | 27.6              | 33.3                                   | 45.8                        | 37.0              | 73.0        | 50.8            | 17.9        | 59.2    |
| 1997              | 55.7       | 48.1    | 53.8    | 41.9                   | 54.1                | 27.2              | 34.5                                   | 46.3                        | 38.5              | 73.9        | 51.8            | 18.4        | 59.4    |
| 1998              | 56.2       | 48.7    | 54.3    | 43.1                   | 55.3                | 26.9              | 37.0                                   | 46.8                        | 39.2              | 74.4        | 52.5            | 18.6        | 59.8    |
| 2000              | 57.2       | 50.4    | 55.7    | 46.4                   | 58.5                | 28.0              | 40.0                                   | 47.8                        | 41.1              | 76.5        | 54.2            | 20.5        | 60.4    |
| 2001              | 57.4       | 50.6    | 55.9    | 48.6                   | 59.7                | 27.6              | 40.9                                   | 48.0                        | 41.7              | 77.5        | 54.8            | 20.1        | 60.5    |
| 2002              | 57.6       | 50.8    | 55.9    | 49.7                   | 61.0                | 27.5              | 42.7                                   | 46.9                        | 42.7              | 77.5        | 54.8            | 20.9        | 60.7    |
| 2003              | 57.6       | 50.4    | 55.5    | 50.6                   | 62.2                | 27.0              | 41.8                                   | 45.6                        | 41.7              | 77.7        | 54.6            | 20.3        | 61.1    |
| 2004              | 57.6       | 50.4    | 55.4    | 51.1                   | 62.4                | 25.1              | 42.2                                   | 45.9                        | 42.1              | 77.8        | 54.5            | 20.5        | 61.1    |
| 2005              | 57.7       | 50.5    | 55.5    | 51.0                   | 62.2                | 22.2              | 41.9                                   | 44.6                        | 42.7              | 77.8        | 54.1            | 20.0        | 61.1    |

NOTE: 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-5. Bachelor's degrees, by field and sex: 1996–2005

| Field and sex                               | 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 physical sciences                     | 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/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 social sciences                       | 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 engineering                           | 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   |
| Female                                      |           |           |           |           |           |           |           |           |           |
| 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     |

TABLE C-5. Bachelor's degrees, by field and sex: 1996–2005

| Field and sex                               | 1996    | 1997    | 1998    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 physical sciences                     | 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/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 social sciences                       | 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 engineering                           | 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 |
| Male  |         |         |         |         |         |         |         |         |         |
| 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 physical sciences                     | 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/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 social sciences                       | 8,555   | 8,804   | 8,502   | 8,624   | 8,464   | 8,630   | 9,510   | 10,265  | 10,600  |

TABLE C-5. Bachelor's degrees, by field and sex: 1996–2005

| Field and sex          | 1996    | 1997    | 1998    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 engineering      | 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 |

NOTE: 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 |          |          |          |          | Foreign National |
|------|----------------|--------|--------|----------------|----------|----------|----------|----------|------------------|
|      |                | Female | Male   | White          | Asian    | African  | Hispanic | Native   |                  |
|      |                |        |        |                | 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-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 | Mathe- matics and statistics | Physical sciences | Psychology | Social sciences | Engi- neering | 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-15. First university degrees in selected countries, by sex and field: 2004

| Country and sex   | Sciences   |         |              |                       |                     |                   |                            |                   |                     |             |         |
|-------------------|------------|---------|--------------|-----------------------|---------------------|-------------------|----------------------------|-------------------|---------------------|-------------|---------|
|                   | All fields | All S&E | All sciences | Agricultural sciences | Biological sciences | Computer sciences | Mathematics and statistics | Physical sciences | Social/             | Engineering | Non-S&E |
|                   |            |         |              |                       |                     |                   |                            |                   | behavioral sciences |             |         |
| Number of degrees |            |         |              |                       |                     |                   |                            |                   |                     |             |         |
| <b>Both sexes</b> |            |         |              |                       |                     |                   |                            |                   |                     |             |         |
| Australia         | 130,298    | 42,984  | 32,941       | 1,246                 | 5,755               | 11,904            | 670                        | 3,634             | 9,732               | 10,043      | 87,314  |
| Austria           | 20,288     | 7,542   | 4,370        | 208                   | 600                 | 1,026             | 101                        | 380               | 2,055               | 3,172       | 12,746  |
| Belgium           | 24,874     | 9,265   | 5,501        | 462                   | 1,097               | 589               | 177                        | 616               | 2,560               | 3,764       | 15,609  |
| Canada            | 137,296    | 53,201  | 42,543       | 1,537                 | 7,852               | 5,462             | 1,805                      | 2,042             | 23,845              | 10,658      | 84,095  |
| Czech Republic    | 33,126     | 12,306  | 5,440        | 1,282                 | 735                 | 1,036             | 289                        | 841               | 1,257               | 6,866       | 20,820  |
| Denmark           | 29,518     | 6,769   | 3,743        | 144                   | 454                 | 567               | 443                        | 355               | 1,780               | 3,026       | 22,749  |
| Finland           | 36,308     | 13,285  | 5,556        | 806                   | 517                 | 1,682             | 284                        | 670               | 1,597               | 7,729       | 23,023  |
| France            | 328,784    | 118,954 | 75,047       | 327                   | 17,196              | 7,536             | 8,077                      | 12,276            | 29,635              | 43,907      | 209,830 |
| Germany           | 196,608    | 71,675  | 37,576       | 2,575                 | 5,312               | 10,367            | 3,349                      | 6,393             | 9,580               | 34,099      | 124,933 |
| Greece            | 29,474     | 11,652  | 10,603       | 259                   | 937                 | 1,030             | 1,385                      | 2,357             | 4,635               | 1,049       | 17,822  |
| Hungary           | 53,514     | 11,640  | 7,306        | 1,740                 | 231                 | 1,234             | 72                         | 511               | 3,518               | 4,334       | 41,874  |
| Iceland           | 2,295      | 609     | 475          | 20                    | 67                  | 140               | 15                         | 37                | 196                 | 134         | 1,686   |
| Ireland           | 25,865     | 8,048   | 5,504        | 208                   | 1,187               | 2,102             | 116                        | 768               | 1,123               | 2,544       | 17,817  |
| Italy             | 264,574    | 98,767  | 52,868       | 3,340                 | 9,787               | 3,211             | 3,281                      | 3,682             | 29,567              | 45,899      | 165,807 |
| Mexico            | 276,690    | 93,858  | 51,012       | 3,912                 | 3,000               | 23,574            | 1,010                      | 4,093             | 15,423              | 42,846      | 182,832 |
| Netherlands       | 84,194     | 21,553  | 14,690       | 1,644                 | 1,004               | 3,511             | 272                        | 1,100             | 7,159               | 6,863       | 62,641  |
| New Zealand       | 28,451     | 7,928   | 6,420        | 234                   | 1,064               | 1,931             | 292                        | 775               | 2,124               | 1,508       | 20,523  |
| Norway            | 25,584     | 6,417   | 4,043        | 140                   | 121                 | 1,515             | 39                         | 90                | 2,138               | 2,374       | 19,167  |
| Poland            | 278,509    | 90,587  | 61,312       | 4,759                 | 1,794               | 10,681            | 2,104                      | 4,585             | 37,389              | 29,275      | 187,922 |
| Slovak Republic   | 25,881     | 8,153   | 4,175        | 811                   | 526                 | 1,083             | 175                        | 409               | 1,171               | 3,978       | 17,728  |
| South Korea       | 267,058    | 119,338 | 48,964       | 3,228                 | 7,911               | 9,452             | 4,835                      | 7,900             | 15,638              | 70,374      | 147,720 |
| Spain             | 202,435    | 67,316  | 36,528       | 4,401                 | 3,999               | 7,952             | 1,977                      | 4,873             | 13,326              | 30,788      | 135,119 |
| Sweden            | 42,697     | 17,277  | 7,365        | 247                   | 1,112               | 1,580             | 224                        | 631               | 3,571               | 9,912       | 25,420  |
| Switzerland       | 19,985     | 6,619   | 4,060        | 191                   | 752                 | 841               | 166                        | 581               | 1,529               | 2,559       | 13,366  |
| Turkey            | 188,134    | 53,793  | 36,792       | 4,298                 | 2,894               | 1,727             | 3,928                      | 6,330             | 17,615              | 17,001      | 134,341 |
| United Kingdom    | 292,092    | 114,123 | 87,851       | 2,327                 | 15,547              | 20,177            | 5,422                      | 11,997            | 32,381              | 26,271      | 177,969 |
| United States     | 1,399,542  | 447,838 | 360,712      | 16,560                | 61,509              | 59,488            | 13,327                     | NA                | 209,828             | 87,126      | 951,704 |
| Brazil            | 528,223    | 102,050 | 71,594       | 5,585                 | 9,512               | 20,098            | 3,353                      | 7,362             | 25,684              | 30,456      | 426,173 |
| Chile             | 71,502     | 22,770  | 12,043       | 2,094                 | 1,073               | 2,811             | 137                        | 1,022             | 4,906               | 10,727      | 48,732  |
| Israel            | 34,703     | 16,577  | 12,193       | 195                   | 1,144               | NA                | 3,013                      | 534               | 7,307               | 4,384       | 18,126  |
| <b>Female</b>     |            |         |              |                       |                     |                   |                            |                   |                     |             |         |
| Australia         | 76,872     | 18,251  | 15,814       | 579                   | 3,339               | 3,161             | 265                        | 1,876             | 6,594               | 2,437       | 58,621  |
| Austria           | 10,323     | 2,780   | 2,175        | 105                   | 407                 | 180               | 40                         | 131               | 1,312               | 605         | 7,543   |
| Belgium           | 12,964     | 3,761   | 2,933        | 201                   | 632                 | 49                | 87                         | 221               | 1,743               | 828         | 9,203   |
| Canada            | 83,174     | 26,931  | 24,479       | 769                   | 4,973               | 1,314             | 834                        | 870               | 15,719              | 2,452       | 56,243  |
| Czech Republic    | 17,900     | 4,415   | 2,748        | 692                   | 531                 | 164               | 150                        | 358               | 853                 | 1,667       | 13,485  |
| Denmark           | 18,871     | 2,429   | 1,693        | 78                    | 273                 | 116               | 83                         | 150               | 993                 | 736         | 16,442  |
| Finland           | 22,923     | 4,716   | 3,035        | 366                   | 394                 | 695               | 131                        | 330               | 1,119               | 1,681       | 18,207  |
| France            | 190,019    | 51,618  | 40,810       | 171                   | 10,500              | 1,668             | 3,573                      | 4,914             | 19,984              | 10,808      | 138,401 |
| Germany           | 98,110     | 24,031  | 16,174       | 1,103                 | 3,316               | 1,708             | 1,887                      | 2,441             | 5,719               | 7,857       | 74,079  |
| Greece            | 18,736     | 5,962   | 5,487        | 138                   | 509                 | 342               | 630                        | 995               | 2,873               | 475         | 12,774  |
| Hungary           | 33,950     | 4,839   | 3,779        | 836                   | 149                 | 363               | 22                         | 216               | 2,193               | 1,060       | 29,111  |
| Iceland           | 1,570      | 282     | 243          | 10                    | 50                  | 38                | 4                          | 18                | 123                 | 39          | 1,288   |
| Ireland           | 15,193     | 3,252   | 2,673        | 81                    | 743                 | 599               | 48                         | 382               | 820                 | 579         | 11,941  |
| Italy             | 153,357    | 43,969  | 31,133       | 1,272                 | 6,587               | 758               | 2,003                      | 1,453             | 19,060              | 12,836      | 109,388 |
| Mexico            | 144,349    | 34,603  | 24,606       | 926                   | 1,631               | 8,962             | 462                        | 2,168             | 10,457              | 9,997       | 109,746 |
| Netherlands       | 47,470     | 7,169   | 6,285        | 716                   | 585                 | 307               | 100                        | 290               | 4,287               | 884         | 40,301  |
| New Zealand       | 17,758     | 3,658   | 3,172        | 76                    | 694                 | 528               | 128                        | 361               | 1,385               | 486         | 14,100  |
| Norway            | 16,104     | 2,259   | 1,720        | 69                    | 79                  | 282               | 12                         | 29                | 1,249               | 539         | 13,845  |
| Poland            | 174,786    | 44,232  | 36,190       | 2,760                 | 1,525               | 1,761             | 1,420                      | 2,836             | 25,888              | 8,042       | 130,554 |
| Slovak Republic   | 14,466     | 3,145   | 1,906        | 326                   | 346                 | 185               | 83                         | 217               | 749                 | 1,239       | 11,321  |
| South Korea       | 131,991    | 40,606  | 22,963       | 1,298                 | 4,222               | 3,239             | 2,850                      | 3,678             | 7,676               | 17,643      | 91,385  |
| Spain             | 121,455    | 28,511  | 19,005       | 1,852                 | 2,706               | 1,663             | 1,171                      | 2,740             | 8,873               | 9,506       | 92,944  |

TABLE C-15. First university degrees in selected countries, by sex and field: 2004

| Country and sex           | Sciences   |         |              |                       |                     |                   |                            |                   |                            |        | Engineering | Non-S&E |
|---------------------------|------------|---------|--------------|-----------------------|---------------------|-------------------|----------------------------|-------------------|----------------------------|--------|-------------|---------|
|                           | All fields | All S&E | All sciences | Agricultural sciences | Biological sciences | Computer sciences | Mathematics and statistics | Physical sciences | Social/behavioral sciences |        |             |         |
| Sweden                    | 26,520     | 7,273   | 4,373        | 128                   | 779                 | 638               | 103                        | 316               | 2,409                      | 2,900  | 19,247      |         |
| Switzerland               | 9,310      | 2,028   | 1,688        | 41                    | 358                 | 68                | 53                         | 144               | 1,024                      | 340    | 7,282       |         |
| Turkey                    | 83,618     | 20,325  | 16,441       | 1,362                 | 1,777               | 404               | 1,878                      | 2,824             | 8,196                      | 3,884  | 63,293      |         |
| United Kingdom            | 163,525    | 47,410  | 42,558       | 1,502                 | 8,495               | 4,515             | 2,322                      | 5,100             | 20,623                     | 4,851  | 116,115     |         |
| United States             | 804,117    | 218,518 | 199,991      | 7,661                 | 38,261              | 14,903            | 6,124                      | NA                | 133,042                    | 18,527 | 585,599     |         |
| Brazil                    | 329,311    | 46,001  | 36,712       | 1,724                 | 6,386               | 5,363             | 1,705                      | 3,531             | 18,003                     | 9,289  | 283,310     |         |
| Chile                     | 37,687     | 8,197   | 5,611        | 672                   | 536                 | 630               | 77                         | 477               | 3,219                      | 2,586  | 29,490      |         |
| Israel                    | 20,935     | 7,943   | 6,905        | 108                   | 739                 | NA                | 965                        | 203               | 4,890                      | 1,038  | 12,992      |         |
| Male                      |            |         |              |                       |                     |                   |                            |                   |                            |        |             |         |
| Australia                 | 53,426     | 24,733  | 17,127       | 667                   | 2,416               | 8,743             | 405                        | 1,758             | 3,138                      | 7,606  | 28,693      |         |
| Austria                   | 9,965      | 4,762   | 2,195        | 103                   | 193                 | 846               | 61                         | 249               | 743                        | 2,567  | 5,203       |         |
| Belgium                   | 11,910     | 5,504   | 2,568        | 261                   | 465                 | 540               | 90                         | 395               | 817                        | 2,936  | 6,406       |         |
| Canada                    | 54,122     | 26,270  | 18,064       | 768                   | 2,879               | 4,148             | 971                        | 1,172             | 8,126                      | 8,206  | 27,852      |         |
| Czech Republic            | 15,226     | 7,891   | 2,692        | 590                   | 204                 | 872               | 139                        | 483               | 404                        | 5,199  | 7,335       |         |
| Denmark                   | 10,647     | 4,340   | 2,050        | 66                    | 181                 | 451               | 360                        | 205               | 787                        | 2,290  | 6,307       |         |
| Finland                   | 13,385     | 8,569   | 2,521        | 440                   | 123                 | 987               | 153                        | 340               | 478                        | 6,048  | 4,816       |         |
| France                    | 138,765    | 67,336  | 34,237       | 156                   | 6,696               | 5,868             | 4,504                      | 7,362             | 9,651                      | 33,099 | 71,429      |         |
| Germany                   | 98,498     | 47,644  | 21,402       | 1,472                 | 1,996               | 8,659             | 1,462                      | 3,952             | 3,861                      | 26,242 | 50,854      |         |
| Greece                    | 10,738     | 5,690   | 5,116        | 121                   | 428                 | 688               | 755                        | 1,362             | 1,762                      | 574    | 5,048       |         |
| Hungary                   | 19,564     | 6,801   | 3,527        | 904                   | 82                  | 871               | 50                         | 295               | 1,325                      | 3,274  | 12,763      |         |
| Iceland                   | 725        | 327     | 232          | 10                    | 17                  | 102               | 11                         | 19                | 73                         | 95     | 398         |         |
| Ireland                   | 10,672     | 4,796   | 2,831        | 127                   | 444                 | 1,503             | 68                         | 386               | 303                        | 1,965  | 5,876       |         |
| Italy                     | 111,217    | 54,798  | 21,735       | 2,068                 | 3,200               | 2,453             | 1,278                      | 2,229             | 10,507                     | 33,063 | 56,419      |         |
| Mexico                    | 132,341    | 59,255  | 26,406       | 2,986                 | 1,369               | 14,612            | 548                        | 1,925             | 4,966                      | 32,849 | 73,086      |         |
| Netherlands               | 36,724     | 14,384  | 8,405        | 928                   | 419                 | 3,204             | 172                        | 810               | 2,872                      | 5,979  | 22,340      |         |
| New Zealand               | 10,693     | 4,270   | 3,248        | 158                   | 370                 | 1,403             | 164                        | 414               | 739                        | 1,022  | 6,423       |         |
| Norway                    | 9,480      | 4,158   | 2,323        | 71                    | 42                  | 1,233             | 27                         | 61                | 889                        | 1,835  | 5,322       |         |
| Poland                    | 103,723    | 46,355  | 25,122       | 1,999                 | 269                 | 8,920             | 684                        | 1,749             | 11,501                     | 21,233 | 57,368      |         |
| Slovak Republic           | 11,415     | 5,008   | 2,269        | 485                   | 180                 | 898               | 92                         | 192               | 422                        | 2,739  | 6,407       |         |
| South Korea               | 135,067    | 78,732  | 26,001       | 1,930                 | 3,689               | 6,213             | 1,985                      | 4,222             | 7,962                      | 52,731 | 56,335      |         |
| Spain                     | 80,980     | 38,805  | 17,523       | 2,549                 | 1,293               | 6,289             | 806                        | 2,133             | 4,453                      | 21,282 | 42,175      |         |
| Sweden                    | 16,177     | 10,004  | 2,992        | 119                   | 333                 | 942               | 121                        | 315               | 1,162                      | 7,012  | 6,173       |         |
| Switzerland               | 10,675     | 4,591   | 2,372        | 150                   | 394                 | 773               | 113                        | 437               | 505                        | 2,219  | 6,084       |         |
| Turkey                    | 104,516    | 33,468  | 20,351       | 2,936                 | 1,117               | 1,323             | 2,050                      | 3,506             | 9,419                      | 13,117 | 71,048      |         |
| United Kingdom            | 128,567    | 66,713  | 45,293       | 825                   | 7,052               | 15,662            | 3,100                      | 6,897             | 11,758                     | 21,420 | 61,854      |         |
| United States             | 595,425    | 229,320 | 160,721      | 8,899                 | 23,248              | 44,585            | 7,203                      | NA                | 76,786                     | 68,599 | 366,105     |         |
| Brazil                    | 198,912    | 56,049  | 34,882       | 3,861                 | 3,126               | 14,735            | 1,648                      | 3,831             | 7,681                      | 21,167 | 142,863     |         |
| Chile                     | 33,815     | 14,573  | 6,432        | 1,422                 | 537                 | 2,181             | 60                         | 545               | 1,687                      | 8,141  | 19,242      |         |
| Israel                    | 13,768     | 8,634   | 5,288        | 87                    | 405                 | NA                | 2,048                      | 331               | 2,417                      | 3,346  | 5,134       |         |
| Percent female by country |            |         |              |                       |                     |                   |                            |                   |                            |        |             |         |
| Australia                 | 59.0       | 42.5    | 48.0         | 46.5                  | 58.0                | 26.6              | 39.6                       | 51.6              | 67.8                       | 24.3   | 67.1        |         |
| Austria                   | 50.9       | 36.9    | 49.8         | 50.5                  | 67.8                | 17.5              | 39.6                       | 34.5              | 63.8                       | 19.1   | 59.2        |         |
| Belgium                   | 52.1       | 40.6    | 53.3         | 43.5                  | 57.6                | 8.3               | 49.2                       | 35.9              | 68.1                       | 22.0   | 59.0        |         |
| Canada                    | 60.6       | 50.6    | 57.5         | 50.0                  | 63.3                | 24.1              | 46.2                       | 42.6              | 65.9                       | 23.0   | 66.9        |         |
| Czech Republic            | 54.0       | 35.9    | 50.5         | 54.0                  | 72.2                | 15.8              | 51.9                       | 42.6              | 67.9                       | 24.3   | 64.8        |         |
| Denmark                   | 63.9       | 35.9    | 45.2         | 54.2                  | 60.1                | 20.5              | 18.7                       | 42.3              | 55.8                       | 24.3   | 72.3        |         |
| Finland                   | 63.1       | 35.5    | 54.6         | 45.4                  | 76.2                | 41.3              | 46.1                       | 49.3              | 70.1                       | 21.7   | 79.1        |         |
| France                    | 57.8       | 43.4    | 54.4         | 52.3                  | 61.1                | 22.1              | 44.2                       | 40.0              | 67.4                       | 24.6   | 66.0        |         |
| Germany                   | 49.9       | 33.5    | 43.0         | 42.8                  | 62.4                | 16.5              | 56.3                       | 38.2              | 59.7                       | 23.0   | 59.3        |         |
| Greece                    | 63.6       | 51.2    | 51.7         | 53.3                  | 54.3                | 33.2              | 45.5                       | 42.2              | 62.0                       | 45.3   | 71.7        |         |
| Hungary                   | 63.4       | 41.6    | 51.7         | 48.0                  | 64.5                | 29.4              | 30.6                       | 42.3              | 62.3                       | 24.5   | 69.5        |         |
| Iceland                   | 68.4       | 46.3    | 51.2         | 50.0                  | 74.6                | 27.1              | 26.7                       | 48.6              | 62.8                       | 29.1   | 76.4        |         |
| Ireland                   | 58.7       | 40.4    | 48.6         | 38.9                  | 62.6                | 28.5              | 41.4                       | 49.7              | 73.0                       | 22.8   | 67.0        |         |
| Italy                     | 58.0       | 44.5    | 58.9         | 38.1                  | 67.3                | 23.6              | 61.0                       | 39.5              | 64.5                       | 28.0   | 66.0        |         |
| Korea                     | 52.2       | 36.9    | 48.2         | 23.7                  | 54.4                | 38.0              | 45.7                       | 53.0              | 67.8                       | 23.3   | 60.0        |         |

TABLE C-15. First university degrees in selected countries, by sex and field: 2004

| Country and sex | Sciences   |         |              |                       |                     |                   |                            |                   |                            |             |         |
|-----------------|------------|---------|--------------|-----------------------|---------------------|-------------------|----------------------------|-------------------|----------------------------|-------------|---------|
|                 | All fields | All S&E | All sciences | Agricultural sciences | Biological sciences | Computer sciences | Mathematics and statistics | Physical sciences | Social/behavioral sciences | Engineering | Non-S&E |
| Mexico          | 56.4       | 33.3    | 42.8         | 43.6                  | 58.3                | 8.7               | 36.8                       | 26.4              | 59.9                       | 12.9        | 64.3    |
| Netherlands     | 62.4       | 46.1    | 49.4         | 32.5                  | 65.2                | 27.3              | 43.8                       | 46.6              | 65.2                       | 32.2        | 68.7    |
| New Zealand     | 62.9       | 35.2    | 42.5         | 49.3                  | 65.3                | 18.6              | 30.8                       | 32.2              | 58.4                       | 22.7        | 72.2    |
| Norway          | 62.8       | 48.8    | 59.0         | 58.0                  | 85.0                | 16.5              | 67.5                       | 61.9              | 69.2                       | 27.5        | 69.5    |
| Poland          | 55.9       | 38.6    | 45.7         | 40.2                  | 65.8                | 17.1              | 47.4                       | 53.1              | 64.0                       | 31.1        | 63.9    |
| Slovak Republic | 49.4       | 34.0    | 46.9         | 40.2                  | 53.4                | 34.3              | 58.9                       | 46.6              | 49.1                       | 25.1        | 61.9    |
| Spain           | 60.0       | 42.4    | 52.0         | 42.1                  | 67.7                | 20.9              | 59.2                       | 56.2              | 66.6                       | 30.9        | 68.8    |
| Sweden          | 62.1       | 42.1    | 59.4         | 51.8                  | 70.1                | 40.4              | 46.0                       | 50.1              | 67.5                       | 29.3        | 75.7    |
| Switzerland     | 46.6       | 30.6    | 41.6         | 21.5                  | 47.6                | 8.1               | 31.9                       | 24.8              | 67.0                       | 13.3        | 54.5    |
| Turkey          | 44.4       | 37.8    | 44.7         | 31.7                  | 61.4                | 23.4              | 47.8                       | 44.6              | 46.5                       | 22.8        | 47.1    |
| United Kingdom  | 56.0       | 41.5    | 48.4         | 64.6                  | 54.6                | 22.4              | 42.8                       | 42.5              | 63.7                       | 18.5        | 65.2    |
| United States   | 57.5       | 48.8    | 55.4         | 46.3                  | 62.2                | 25.1              | 46.0                       | NA                | 63.4                       | 21.3        | 61.5    |
| Brazil          | 62.3       | 45.1    | 51.3         | 30.9                  | 67.1                | 26.7              | 50.8                       | 48.0              | 70.1                       | 30.5        | 66.5    |
| Chile           | 52.7       | 36.0    | 46.6         | 32.1                  | 50.0                | 22.4              | 56.2                       | 46.7              | 65.6                       | 24.1        | 60.5    |
| Israel          | 60.3       | 47.9    | 56.6         | 55.4                  | 64.6                | NA                | 32.0                       | 38.0              | 66.9                       | 23.7        | 71.7    |

NA Not available; included elsewhere.

NOTE: United States numbers differ from those in other tables in this report because of differences in coverage of institutions and field taxonomy.

SOURCE: Organisation for Economic Co-operation and Development, Education Online database, 2007.

TABLE C-16. S&E associate's degrees awarded by leading institutions, by sex: 2001–2005

| Academic institution                                     | Associate's degrees | Academic institution                             | Associate's degrees |
|--|---------------------|--|---------------------|
| <b>Female</b>  |                     | <b>Male</b>                                      |                     |
| All institutions   | 146,276             | All institutions                                 | 284,803             |
| Leading institutions                                     | 40,326              | Leading institutions                             | 66,666              |
| Community College of the Air Force                       | 1,962               | Community College of the Air Force               | 9,002               |
| Riverside Community College                              | 1,911               | Technical Career Institutes                      | 3,168               |
| Mt San Jacinto College                                   | 1,655               | ECPI College of Technology                       | 2,650               |
| Keiser College Ft Lauderdale                             | 1,320               | Purdue University main campus                    | 2,252               |
| Sierra College   | 1,314               | New England Institute of Technology              | 2,033               |
| San Jacinto College Central campus                       | 1,286               | Texas State Technical College Waco               | 1,865               |
| Sacramento City College                                  | 1,278               | Keiser College Ft Lauderdale                     | 1,845               |
| Citrus College   | 1,275               | DeVry University New Jersey                      | 1,775               |
| Tidewater Community College                              | 1,262               | Pennsylvania College of Technology               | 1,525               |
| ECPI College of Technology                               | 1,216               | Excelsior College                                | 1,417               |
| Moraine Valley Community College                         | 1,156               | CUNY New York City College of Technology         | 1,342               |
| CUNY La Guardia Community College                        | 970                 | Southeast Community College Area                 | 1,335               |
| Butte College  | 953                 | Pittsburgh Technical Institute                   | 1,325               |
| Napa Valley College                                      | 915                 | ITT Technical Institute (Houston, TX)            | 1,211               |
| San Joaquin Delta College                                | 894                 | Herald College San Jose                          | 1,164               |
| McHenry County College                                   | 864                 | Herald College Concord                           | 1,153               |
| Lewis and Clark Community College                        | 849                 | Herald College Hayward                           | 1,146               |
| Lake Land College  | 774                 | Riverside Community College                      | 1,120               |
| Brookdale Community College                              | 734                 | ITT Technical Institute (San Diego, CA)          | 1,057               |
| Parkland College   | 728                 | Ferris State University                          | 1,035               |
| CUNY New York City College of Technology                 | 716                 | Salt Lake Community College                      | 1,032               |
| Waubonsee Community College                              | 697                 | Remington College Tampa campus                   | 1,028               |
| Solano Community College                                 | 673                 | Katharine Gibbs School New York City             | 1,023               |
| American River College                                   | 669                 | ECPI Technical College (Richmond, VA)            | 1,000               |
| College of the Canyons                                   | 666                 | Cincinnati State Technical and Community College | 997                 |
| Tulsa Community College                                  | 650                 | Hocking College                                  | 995                 |
| Oklahoma City Community College                          | 641                 | Sinclair Community College                       | 986                 |
| Southwestern Illinois College                            | 634                 | Moraine Valley Community College                 | 960                 |
| Robert Morris College (Chicago, IL)                      | 621                 | San Jacinto College Central campus               | 954                 |
| Richard Bland College of the College of William and Mary | 597                 | Robert Morris College (Chicago, IL)              | 953                 |
| CUNY Bronx Community College                             | 571                 | Herald College San Francisco                     | 940                 |
| Essex County College                                     | 556                 | Milwaukee Area Technical College                 | 939                 |
| Thomas Nelson Community College                          | 555                 | Monroe Community College                         | 931                 |
| Henry Ford Community College                             | 554                 | Columbus State Community College                 | 920                 |
| Victor Valley Community College                          | 547                 | ITT Technical Institute (West Covina, CA)        | 917                 |
| Modesto Junior College                                   | 546                 | Tidewater Community College                      | 915                 |
| DeVry University New Jersey                              | 545                 | ITT Technical Institute (San Bernardino, CA)     | 901                 |
| Kishwaukee College                                       | 531                 | Macomb Community College                         | 894                 |
| El Camino College  | 529                 | DeVry University Illinois                        | 867                 |
| Harrisburg Area Community College                        | 529                 | Springfield Technical Community College          | 858                 |
| Laney College  | 521                 | ITT Technical Institute (Sylmar, CA)             | 847                 |
| Merritt College  | 521                 | Fox Valley Technical College                     | 842                 |
| John A Logan College                                     | 517                 | North Dakota State College of Science            | 841                 |
| Texas State Technical College Waco                       | 515                 | DeVry University California                      | 832                 |
| Katharine Gibbs School New York City                     | 491                 | San Joaquin Delta College                        | 832                 |
| CUNY Borough of Manhattan Community College              | 489                 | Herald College Roseville                         | 830                 |
| J Sargeant Reynolds Community College                    | 489                 | Henry Ford Community College                     | 824                 |
| Bakersfield College                                      | 485                 | Sacramento City College                          | 810                 |
| Illinois Valley Community College                        | 478                 | ITT Technical Institute (Torrance, CA)           | 791                 |
| Lincoln Land Community College                           | 477                 | Vincennes University                             | 787                 |
| Other institutions                                       | 105,950             | Other institutions                               | 218,137             |

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-18. S&E bachelor's degrees awarded by leading institutions, by sex: 2001–2005

| Academic institution                                | Bachelor's degrees | Academic institution                                    | Bachelor's degrees |
|---|--------------------|---|--------------------|
| <b>Female</b>                                       |                    | <b>Male</b>   |                    |
| All institutions                                    | 1,101,311          | All institutions  | 1,077,444          |
| Leading institutions                                | 279,195            | Leading institutions                                    | 319,072            |
| University of California Los Angeles                | 12,888             | University of Texas at Austin                           | 10,877             |
| University of California Berkeley                   | 9,978              | University of California Los Angeles                    | 10,462             |
| University of California Davis                      | 9,784              | Pennsylvania State University main campus               | 10,095             |
| University of Washington Seattle                    | 9,272              | University of California Berkeley                       | 9,874              |
| University of California Irvine                     | 8,543              | University of Illinois at Urbana Champaign              | 9,777              |
| Rutgers University New Brunswick/Piscataway         | 8,481              | University of Washington Seattle                        | 9,383              |
| University of Texas at Austin                       | 7,897              | University of Michigan Ann Arbor                        | 9,106              |
| University of Florida                               | 7,815              | Ohio State University main campus                       | 8,980              |
| University of California San Diego                  | 7,664              | Texas A & M University                                  | 8,856              |
| University of Michigan Ann Arbor                    | 7,311              | Purdue University main campus                           | 8,615              |
| Texas A & M University                              | 7,130              | University of Maryland College Park                     | 8,451              |
| Michigan State University                           | 7,089              | University of Florida                                   | 8,442              |
| University of Illinois at Urbana Champaign          | 6,877              | Rutgers University New Brunswick/Piscataway             | 8,274              |
| Ohio State University main campus                   | 6,861              | University of Wisconsin Madison                         | 8,239              |
| University of Wisconsin Madison                     | 6,680              | North Carolina State University at Raleigh              | 8,139              |
| University of California Santa Barbara              | 6,596              | University of California Irvine                         | 8,055              |
| University of Maryland College Park                 | 6,407              | University of California Davis                          | 7,886              |
| Pennsylvania State University main campus           | 6,241              | Brigham Young University                                | 7,741              |
| University of Colorado at Boulder                   | 6,065              | Michigan State University                               | 7,564              |
| University of Minnesota Twin Cities                 | 5,834              | University of California San Diego                      | 7,281              |
| University of South Florida                         | 5,320              | Virginia Polytechnic Institute and State University     | 7,275              |
| North Carolina State University at Raleigh          | 5,192              | University of Minnesota Twin Cities                     | 7,145              |
| San Diego State University                          | 5,018              | Georgia Institute of Technology main campus             | 6,765              |
| University of Arizona                               | 4,946              | University of Colorado at Boulder                       | 6,259              |
| University of California Santa Cruz                 | 4,652              | Iowa State University                                   | 5,631              |
| Florida State University                            | 4,617              | University of Utah                                      | 5,512              |
| University of Virginia main campus                  | 4,546              | Cornell University                                      | 5,407              |
| University of North Carolina at Chapel Hill         | 4,487              | University of Arizona                                   | 5,333              |
| Purdue University main campus                       | 4,402              | University of California Santa Barbara                  | 5,123              |
| University of Massachusetts Amherst                 | 4,374              | San Diego State University                              | 4,944              |
| University of Central Florida                       | 4,313              | Arizona State University Tempe                          | 4,939              |
| Boston University                                   | 4,295              | Florida State University                                | 4,823              |
| California State University Northridge              | 4,113              | California Polytechnic State University San Luis Obispo | 4,771              |
| Arizona State University Tempe                      | 4,087              | University of Virginia main campus                      | 4,569              |
| Brigham Young University                            | 4,073              | Auburn University main campus                           | 4,540              |
| Virginia Polytechnic Institute and State University | 4,057              | University of Pittsburgh main campus                    | 4,423              |
| Cornell University                                  | 3,937              | University of Massachusetts Amherst                     | 4,409              |
| University of Pittsburgh main campus                | 3,925              | University of Tennessee                                 | 4,126              |
| University of Georgia                               | 3,913              | Oregon State University                                 | 4,122              |
| SUNY at Binghamton                                  | 3,869              | Kansas State University                                 | 4,106              |
| Indiana University Bloomington                      | 3,803              | SUNY at Buffalo   | 4,084              |
| New York University                                 | 3,737              | Louisiana State University and A & M College            | 4,062              |
| University of Oregon                                | 3,665              | Indiana University Bloomington                          | 4,048              |
| Colorado State University                           | 3,595              | University of Missouri Columbia                         | 3,978              |
| Washington State University                         | 3,541              | University of Central Florida                           | 3,975              |
| University of California Riverside                  | 3,537              | University of South Florida                             | 3,950              |
| Louisiana State University and A & M College        | 3,501              | Colorado State University                               | 3,835              |
| San Francisco State University                      | 3,474              | University of Pennsylvania                              | 3,619              |
| University of Tennessee                             | 3,408              | Clemson University                                      | 3,605              |
| California State University Long Beach              | 3,385              | University of Southern California                       | 3,597              |
| Other institutions                                  | 822,116            | Other institutions                                      | 758,372            |

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-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    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| 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&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&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-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

| Field and sex                               | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| S&E   | 74,373 | 75,447 | 78,332 | 82,411 | 86,827 | 89,331 | 86,580 | 89,183 |
| Science                                     | 55,112 | 54,934 | 56,141 | 59,105 | 62,220 | 64,902 | 64,555 | 66,810 |
| Agricultural sciences                       | 2,299  | 2,253  | 2,335  | 2,338  | 2,320  | 2,424  | 2,316  | 2,260  |
| Biological sciences                         | 11,335 | 10,959 | 10,955 | 11,608 | 12,127 | 12,719 | 12,796 | 12,896 |
| Anatomy                                     | 180    | 161    | 198    | 159    | 193    | 178    | 180    | 213    |
| Biochemistry                                | 1,022  | 896    | 929    | 851    | 880    | 958    | 907    | 930    |
| Biology                                     | 2,498  | 2,521  | 2,282  | 2,376  | 2,532  | 2,610  | 2,740  | 2,826  |
| Biometry/epidemiology                       | 815    | 825    | 837    | 953    | 1,001  | 1,022  | 986    | 1,069  |
| Biophysics                                  | 158    | 118    | 128    | 162    | 166    | 223    | 210    | 174    |
| Botany                                      | 409    | 363    | 357    | 315    | 335    | 307    | 336    | 316    |
| Cell/molecular biology                      | 903    | 867    | 977    | 993    | 1,085  | 1,125  | 1,140  | 1,186  |
| Ecology                                     | 261    | 251    | 280    | 348    | 317    | 345    | 302    | 314    |
| Entomology/parasitology                     | 233    | 179    | 185    | 202    | 203    | 175    | 211    | 153    |
| Genetics                                    | 397    | 427    | 380    | 382    | 362    | 373    | 441    | 365    |
| Microbiology, immunology, and virology      | 857    | 904    | 823    | 884    | 914    | 909    | 889    | 868    |
| Nutrition                                   | 940    | 834    | 830    | 906    | 890    | 895    | 843    | 863    |
| Pathology                                   | 279    | 320    | 276    | 320    | 294    | 256    | 277    | 248    |
| Pharmacology                                | 513    | 487    | 549    | 507    | 554    | 552    | 510    | 466    |
| Physiology                                  | 654    | 608    | 570    | 615    | 633    | 760    | 731    | 678    |
| Zoology                                     | 274    | 263    | 230    | 247    | 231    | 258    | 212    | 199    |
| Other                                       | 942    | 935    | 1,124  | 1,388  | 1,537  | 1,773  | 1,881  | 2,028  |
| Computer sciences                           | 5,758  | 6,677  | 8,431  | 9,077  | 9,037  | 8,134  | 7,783  | 8,258  |
| Earth, atmospheric, and ocean sciences      | 2,859  | 2,746  | 2,649  | 2,794  | 3,085  | 3,104  | 2,926  | 2,777  |
| Atmospheric                                 | 189    | 203    | 222    | 205    | 213    | 268    | 228    | 228    |
| Earth                                       | 1,348  | 1,296  | 1,230  | 1,383  | 1,437  | 1,412  | 1,336  | 1,327  |
| Ocean                                       | 471    | 474    | 479    | 511    | 533    | 567    | 534    | 463    |
| Other                                       | 851    | 773    | 718    | 695    | 902    | 857    | 828    | 759    |
| Mathematics and statistics                  | 3,334  | 3,271  | 3,419  | 3,686  | 3,918  | 4,185  | 4,252  | 4,196  |
| Mathematics/applied mathematics             | 2,721  | 2,650  | 2,757  | 2,892  | 3,114  | 3,266  | 3,365  | 3,263  |
| Statistics                                  | 613    | 621    | 662    | 794    | 804    | 919    | 887    | 933    |
| Physical sciences                           | 5,932  | 6,004  | 5,829  | 6,011  | 6,280  | 6,841  | 6,603  | 6,657  |
| Astronomy                                   | 162    | 171    | 183    | 193    | 194    | 225    | 210    | 190    |
| Chemistry                                   | 3,682  | 3,672  | 3,482  | 3,651  | 3,746  | 3,983  | 3,862  | 3,904  |
| Physics                                     | 2,046  | 2,074  | 2,101  | 2,102  | 2,231  | 2,543  | 2,442  | 2,458  |
| Other                                       | 42     | 87     | 63     | 65     | 109    | 90     | 89     | 105    |
| Psychology                                  | 8,590  | 8,305  | 7,545  | 7,691  | 8,420  | 8,858  | 9,478  | 10,377 |
| Clinical                                    | 2,001  | 1,992  | 1,829  | 1,731  | 1,898  | 1,986  | 2,251  | 2,318  |
| General                                     | 3,060  | 2,745  | 2,534  | 2,652  | 2,657  | 3,009  | 2,979  | 3,416  |
| Nonclinical                                 | 3,529  | 3,568  | 3,182  | 3,308  | 3,865  | 3,863  | 4,248  | 4,643  |
| Social sciences                             | 15,005 | 14,719 | 14,978 | 15,900 | 17,033 | 18,637 | 18,401 | 19,389 |
| Agricultural economics                      | 417    | 482    | 455    | 496    | 575    | 536    | 523    | 557    |
| Anthropology (cultural and social)          | 1,219  | 1,193  | 1,157  | 1,119  | 1,177  | 1,279  | 1,187  | 1,257  |
| Economics                                   | 2,352  | 2,355  | 2,508  | 2,562  | 2,843  | 2,921  | 2,686  | 2,676  |
| Geography                                   | 805    | 830    | 784    | 872    | 812    | 915    | 860    | 898    |
| History and philosophy of science           | 89     | 91     | 78     | 72     | 97     | 107    | 107    | 138    |
| Linguistics                                 | 493    | 422    | 454    | 495    | 466    | 588    | 570    | 633    |
| Political science and public administration | 4,953  | 4,837  | 5,142  | 5,562  | 6,241  | 6,950  | 7,348  | 7,810  |
| Sociology                                   | 1,428  | 1,307  | 1,300  | 1,431  | 1,535  | 1,543  | 1,359  | 1,504  |
| Other                                       | 3,249  | 3,202  | 3,100  | 3,291  | 3,287  | 3,798  | 3,761  | 3,916  |
| Engineering                                 | 19,261 | 20,513 | 22,191 | 23,306 | 24,607 | 24,429 | 22,025 | 22,373 |
| Aerospace                                   | 717    | 727    | 775    | 767    | 712    | 845    | 834    | 804    |
| Agricultural                                | 175    | 212    | 188    | 192    | 201    | 197    | 177    | 190    |
| Biomedical                                  | 675    | 724    | 915    | 884    | 1,125  | 1,327  | 1,274  | 1,267  |
| Chemical                                    | 1,503  | 1,491  | 1,595  | 1,541  | 1,616  | 1,600  | 1,392  | 1,293  |
| Civil                                       | 3,785  | 3,726  | 3,840  | 3,820  | 4,107  | 4,363  | 4,175  | 4,057  |
| Electrical                                  | 5,741  | 6,369  | 7,195  | 7,882  | 8,221  | 7,834  | 6,633  | 6,987  |
| Engineering science/physics                 | 308    | 255    | 299    | 339    | 404    | 392    | 361    | 317    |
| Industrial/manufacturing                    | 1,547  | 1,851  | 2,005  | 2,216  | 2,238  | 2,029  | 1,724  | 1,674  |
| Mechanical                                  | 2,923  | 3,119  | 3,269  | 3,583  | 3,709  | 3,476  | 3,129  | 3,225  |

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

| Field and sex                               | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Metallurgical/materials                     | 900    | 892    | 1,005  | 975    | 1,044  | 958    | 926    | 992    |
| Mining                                      | 44     | 45     | 48     | 40     | 41     | 73     | 64     | 58     |
| Nuclear                                     | 153    | 150    | 163    | 164    | 149    | 177    | 192    | 193    |
| Petroleum                                   | 132    | 149    | 149    | 153    | 198    | 166    | 151    | 161    |
| Other                                       | 658    | 803    | 745    | 750    | 842    | 992    | 993    | 1,155  |
| Female                                      | 30,494 | 31,113 | 32,155 | 34,229 | 37,023 | 38,824 | 38,192 | 39,351 |
| Science                                     | 26,630 | 26,860 | 27,336 | 29,181 | 31,334 | 32,778 | 32,815 | 34,009 |
| Agricultural sciences                       | 1,043  | 1,018  | 1,156  | 1,172  | 1,160  | 1,247  | 1,167  | 1,204  |
| Biological sciences                         | 6,038  | 5,944  | 6,118  | 6,647  | 7,012  | 7,357  | 7,538  | 7,439  |
| Anatomy                                     | 92     | 77     | 115    | 90     | 110    | 106    | 100    | 103    |
| Biochemistry                                | 463    | 413    | 451    | 434    | 457    | 461    | 465    | 494    |
| Biology                                     | 1,297  | 1,349  | 1,224  | 1,339  | 1,455  | 1,501  | 1,611  | 1,534  |
| Biometry/epidemiology                       | 508    | 521    | 535    | 627    | 613    | 627    | 605    | 671    |
| Biophysics                                  | 40     | 41     | 43     | 45     | 75     | 85     | 79     | 62     |
| Botany                                      | 224    | 188    | 195    | 171    | 199    | 168    | 197    | 185    |
| Cell/molecular biology                      | 449    | 455    | 516    | 526    | 572    | 622    | 627    | 639    |
| Ecology                                     | 123    | 138    | 153    | 199    | 173    | 220    | 174    | 199    |
| Entomology/parasitology                     | 84     | 64     | 101    | 92     | 91     | 88     | 107    | 73     |
| Genetics                                    | 256    | 262    | 245    | 244    | 239    | 254    | 294    | 261    |
| Microbiology, immunology, and virology      | 458    | 487    | 443    | 514    | 535    | 530    | 549    | 512    |
| Nutrition                                   | 722    | 649    | 650    | 717    | 714    | 724    | 692    | 709    |
| Pathology                                   | 157    | 175    | 173    | 202    | 184    | 168    | 177    | 158    |
| Pharmacology                                | 274    | 270    | 293    | 291    | 329    | 309    | 280    | 252    |
| Physiology                                  | 258    | 251    | 257    | 291    | 296    | 391    | 385    | 359    |
| Zoology                                     | 133    | 123    | 108    | 132    | 127    | 134    | 125    | 104    |
| Other                                       | 500    | 481    | 616    | 733    | 843    | 969    | 1,071  | 1,124  |
| Computer sciences                           | 1,517  | 1,797  | 2,234  | 2,389  | 2,308  | 2,017  | 1,864  | 1,952  |
| Earth, atmospheric, and ocean sciences      | 1,264  | 1,278  | 1,211  | 1,315  | 1,459  | 1,559  | 1,442  | 1,420  |
| Atmospheric                                 | 49     | 71     | 68     | 87     | 73     | 100    | 90     | 85     |
| Earth                                       | 547    | 543    | 513    | 586    | 612    | 655    | 607    | 650    |
| Ocean                                       | 242    | 244    | 254    | 271    | 278    | 331    | 310    | 251    |
| Other                                       | 426    | 420    | 376    | 371    | 496    | 473    | 435    | 434    |
| Mathematics and statistics                  | 1,238  | 1,257  | 1,282  | 1,442  | 1,525  | 1,606  | 1,571  | 1,489  |
| Mathematics/applied mathematics             | 965    | 961    | 945    | 1,030  | 1,131  | 1,175  | 1,160  | 1,077  |
| Statistics                                  | 273    | 296    | 337    | 412    | 394    | 431    | 411    | 412    |
| Physical sciences                           | 1,724  | 1,921  | 1,899  | 1,924  | 2,220  | 2,342  | 2,271  | 2,270  |
| Astronomy                                   | 46     | 46     | 62     | 53     | 76     | 85     | 71     | 70     |
| Chemistry                                   | 1,294  | 1,434  | 1,401  | 1,395  | 1,624  | 1,667  | 1,653  | 1,599  |
| Physics                                     | 371    | 409    | 408    | 450    | 462    | 555    | 504    | 548    |
| Other                                       | 13     | 32     | 28     | 26     | 58     | 35     | 43     | 53     |
| Psychology                                  | 6,172  | 6,022  | 5,601  | 5,848  | 6,390  | 6,694  | 7,175  | 7,922  |
| Clinical                                    | 1,435  | 1,485  | 1,410  | 1,303  | 1,477  | 1,552  | 1,748  | 1,811  |
| General                                     | 2,140  | 1,902  | 1,820  | 1,962  | 1,928  | 2,188  | 2,116  | 2,455  |
| Nonclinical                                 | 2,597  | 2,635  | 2,371  | 2,583  | 2,985  | 2,954  | 3,311  | 3,656  |
| Social sciences                             | 7,634  | 7,623  | 7,835  | 8,444  | 9,260  | 9,956  | 9,787  | 10,313 |
| Agricultural economics                      | 157    | 193    | 195    | 203    | 254    | 225    | 214    | 249    |
| Anthropology (cultural and social)          | 724    | 734    | 710    | 702    | 771    | 843    | 786    | 828    |
| Economics                                   | 847    | 810    | 976    | 936    | 1,107  | 1,102  | 1,006  | 960    |
| Geography                                   | 317    | 363    | 321    | 378    | 354    | 389    | 365    | 376    |
| History and philosophy of science           | 38     | 41     | 31     | 31     | 43     | 43     | 45     | 73     |
| Linguistics                                 | 329    | 275    | 286    | 327    | 304    | 380    | 375    | 413    |
| Political science and public administration | 2,418  | 2,503  | 2,634  | 2,962  | 3,496  | 3,736  | 3,900  | 4,151  |
| Sociology                                   | 922    | 852    | 857    | 957    | 1,010  | 1,020  | 886    | 953    |
| Other                                       | 1,882  | 1,852  | 1,825  | 1,948  | 1,921  | 2,218  | 2,210  | 2,310  |
| Engineering                                 | 3,864  | 4,253  | 4,819  | 5,048  | 5,689  | 6,046  | 5,377  | 5,342  |
| Aerospace                                   | 89     | 96     | 127    | 111    | 120    | 131    | 150    | 128    |
| Agricultural                                | 52     | 82     | 67     | 71     | 67     | 71     | 68     | 61     |
| Biomedical                                  | 217    | 241    | 345    | 323    | 459    | 519    | 521    | 493    |

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

| Field and sex                               | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Chemical                                    | 386    | 382    | 398    | 400    | 474    | 501    | 412    | 402    |
| Civil                                       | 1,015  | 1,066  | 1,175  | 1,098  | 1,238  | 1,441  | 1,321  | 1,280  |
| Electrical                                  | 926    | 1,112  | 1,247  | 1,558  | 1,712  | 1,666  | 1,281  | 1,327  |
| Engineering science/physics                 | 68     | 48     | 72     | 71     | 89     | 99     | 89     | 74     |
| Industrial/manufacturing                    | 313    | 349    | 459    | 443    | 476    | 530    | 453    | 462    |
| Mechanical                                  | 350    | 390    | 432    | 478    | 482    | 516    | 461    | 477    |
| Metallurgical/materials                     | 251    | 248    | 243    | 262    | 297    | 261    | 258    | 273    |
| Mining                                      | 9      | 10     | 11     | 7      | 9      | 14     | 5      | 7      |
| Nuclear                                     | 29     | 35     | 43     | 40     | 26     | 40     | 51     | 48     |
| Petroleum                                   | 15     | 21     | 25     | 23     | 34     | 31     | 31     | 24     |
| Other                                       | 144    | 173    | 175    | 163    | 206    | 226    | 276    | 286    |
| Male  | 43,879 | 44,334 | 46,177 | 48,182 | 49,804 | 50,507 | 48,388 | 49,832 |
| Science                                     | 28,482 | 28,074 | 28,805 | 29,924 | 30,886 | 32,124 | 31,740 | 32,801 |
| Agricultural sciences                       | 1,256  | 1,235  | 1,179  | 1,166  | 1,160  | 1,177  | 1,149  | 1,056  |
| Biological sciences                         | 5,297  | 5,015  | 4,837  | 4,961  | 5,115  | 5,362  | 5,258  | 5,457  |
| Anatomy                                     | 88     | 84     | 83     | 69     | 83     | 72     | 80     | 110    |
| Biochemistry                                | 559    | 483    | 478    | 417    | 423    | 497    | 442    | 436    |
| Biology                                     | 1,201  | 1,172  | 1,058  | 1,037  | 1,077  | 1,109  | 1,129  | 1,292  |
| Biometry/epidemiology                       | 307    | 304    | 302    | 326    | 388    | 395    | 381    | 398    |
| Biophysics                                  | 118    | 77     | 85     | 117    | 91     | 138    | 131    | 112    |
| Botany                                      | 185    | 175    | 162    | 144    | 136    | 139    | 139    | 131    |
| Cell/molecular biology                      | 454    | 412    | 461    | 467    | 513    | 503    | 513    | 547    |
| Ecology                                     | 138    | 113    | 127    | 149    | 144    | 125    | 128    | 115    |
| Entomology/parasitology                     | 149    | 115    | 84     | 110    | 112    | 87     | 104    | 80     |
| Genetics                                    | 141    | 165    | 135    | 138    | 123    | 119    | 147    | 104    |
| Microbiology, immunology, and virology      | 399    | 417    | 380    | 370    | 379    | 379    | 340    | 356    |
| Nutrition                                   | 218    | 185    | 180    | 189    | 176    | 171    | 151    | 154    |
| Pathology                                   | 122    | 145    | 103    | 118    | 110    | 88     | 100    | 90     |
| Pharmacology                                | 239    | 217    | 256    | 216    | 225    | 243    | 230    | 214    |
| Physiology                                  | 396    | 357    | 313    | 324    | 337    | 369    | 346    | 319    |
| Zoology                                     | 141    | 140    | 122    | 115    | 104    | 124    | 87     | 95     |
| Other                                       | 442    | 454    | 508    | 655    | 694    | 804    | 810    | 904    |
| Computer sciences                           | 4,241  | 4,880  | 6,197  | 6,688  | 6,729  | 6,117  | 5,919  | 6,306  |
| Earth, atmospheric, and ocean sciences      | 1,595  | 1,468  | 1,438  | 1,479  | 1,626  | 1,545  | 1,484  | 1,357  |
| Atmospheric                                 | 140    | 132    | 154    | 118    | 140    | 168    | 138    | 143    |
| Earth                                       | 801    | 753    | 717    | 797    | 825    | 757    | 729    | 677    |
| Ocean                                       | 229    | 230    | 225    | 240    | 255    | 236    | 224    | 212    |
| Other                                       | 425    | 353    | 342    | 324    | 406    | 384    | 393    | 325    |
| Mathematics and statistics                  | 2,096  | 2,014  | 2,137  | 2,244  | 2,393  | 2,579  | 2,681  | 2,707  |
| Mathematics/applied mathematics             | 1,756  | 1,689  | 1,812  | 1,862  | 1,983  | 2,091  | 2,205  | 2,186  |
| Statistics                                  | 340    | 325    | 325    | 382    | 410    | 488    | 476    | 521    |
| Physical sciences                           | 4,208  | 4,083  | 3,930  | 4,087  | 4,060  | 4,499  | 4,332  | 4,387  |
| Astronomy                                   | 116    | 125    | 121    | 140    | 118    | 140    | 139    | 120    |
| Chemistry                                   | 2,388  | 2,238  | 2,081  | 2,256  | 2,122  | 2,316  | 2,209  | 2,305  |
| Physics                                     | 1,675  | 1,665  | 1,693  | 1,652  | 1,769  | 1,988  | 1,938  | 1,910  |
| Other                                       | 29     | 55     | 35     | 39     | 51     | 55     | 46     | 52     |
| Psychology                                  | 2,418  | 2,283  | 1,944  | 1,843  | 2,030  | 2,164  | 2,303  | 2,455  |
| Clinical                                    | 566    | 507    | 419    | 428    | 421    | 434    | 503    | 507    |
| General                                     | 920    | 843    | 714    | 690    | 729    | 821    | 863    | 961    |
| Nonclinical                                 | 932    | 933    | 811    | 725    | 880    | 909    | 937    | 987    |
| Social sciences                             | 7,371  | 7,096  | 7,143  | 7,456  | 7,773  | 8,681  | 8,614  | 9,076  |
| Agricultural economics                      | 260    | 289    | 260    | 293    | 321    | 311    | 309    | 308    |
| Anthropology (cultural and social)          | 495    | 459    | 447    | 417    | 406    | 436    | 401    | 429    |
| Economics                                   | 1,505  | 1,545  | 1,532  | 1,626  | 1,736  | 1,819  | 1,680  | 1,716  |
| Geography                                   | 488    | 467    | 463    | 494    | 458    | 526    | 495    | 522    |
| History and philosophy of science           | 51     | 50     | 47     | 41     | 54     | 64     | 62     | 65     |
| Linguistics                                 | 164    | 147    | 168    | 168    | 162    | 208    | 195    | 220    |
| Political science and public administration | 2,535  | 2,334  | 2,508  | 2,600  | 2,745  | 3,214  | 3,448  | 3,659  |

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

| Field and sex               | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sociology                   | 506    | 455    | 443    | 474    | 525    | 523    | 473    | 551    |
| Other                       | 1,367  | 1,350  | 1,275  | 1,343  | 1,366  | 1,580  | 1,551  | 1,606  |
| Engineering                 | 15,397 | 16,260 | 17,372 | 18,258 | 18,918 | 18,383 | 16,648 | 17,031 |
| Aerospace                   | 628    | 631    | 648    | 656    | 592    | 714    | 684    | 676    |
| Agricultural                | 123    | 130    | 121    | 121    | 134    | 126    | 109    | 129    |
| Biomedical                  | 458    | 483    | 570    | 561    | 666    | 808    | 753    | 774    |
| Chemical                    | 1,117  | 1,109  | 1,197  | 1,141  | 1,142  | 1,099  | 980    | 891    |
| Civil                       | 2,770  | 2,660  | 2,665  | 2,722  | 2,869  | 2,922  | 2,854  | 2,777  |
| Electrical                  | 4,815  | 5,257  | 5,948  | 6,324  | 6,509  | 6,168  | 5,352  | 5,660  |
| Engineering science/physics | 240    | 207    | 227    | 268    | 315    | 293    | 272    | 243    |
| Industrial/manufacturing    | 1,234  | 1,502  | 1,546  | 1,773  | 1,762  | 1,499  | 1,271  | 1,212  |
| Mechanical                  | 2,573  | 2,729  | 2,837  | 3,105  | 3,227  | 2,960  | 2,668  | 2,748  |
| Metallurgical/materials     | 649    | 644    | 762    | 713    | 747    | 697    | 668    | 719    |
| Mining                      | 35     | 35     | 37     | 33     | 32     | 59     | 59     | 51     |
| Nuclear                     | 124    | 115    | 120    | 124    | 123    | 137    | 141    | 145    |
| Petroleum                   | 117    | 128    | 124    | 130    | 164    | 135    | 120    | 137    |
| Other                       | 514    | 630    | 570    | 587    | 636    | 766    | 717    | 869    |

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

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&amp;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-10. Enrollment status of S&amp;E graduate students, by field and sex: 2005

| Field                                       | All graduate students |           |           | Female  |           |           | Male    |           |           |
|---|-----------------------|-----------|-----------|---------|-----------|-----------|---------|-----------|-----------|
|   | Total                 | Full time | Part time | Total   | Full time | Part time | Total   | Full time | Part time |
| S&E   | 478,782               | 341,778   | 137,004   | 206,663 | 146,154   | 60,509    | 272,119 | 195,624   | 76,495    |
| Science                                     | 358,309               | 257,403   | 100,906   | 179,785 | 126,696   | 53,089    | 178,524 | 130,707   | 47,817    |
| Agricultural sciences                       | 13,123                | 9,710     | 3,413     | 6,202   | 4,699     | 1,503     | 6,921   | 5,011     | 1,910     |
| Biological sciences                         | 68,449                | 57,651    | 10,798    | 38,503  | 32,074    | 6,429     | 29,946  | 25,577    | 4,369     |
| Anatomy                                     | 938                   | 844       | 94        | 466     | 411       | 55        | 472     | 433       | 39        |
| Biochemistry                                | 5,814                 | 5,470     | 344       | 2,818   | 2,655     | 163       | 2,996   | 2,815     | 181       |
| Biology                                     | 15,668                | 11,913    | 3,755     | 8,631   | 6,508     | 2,123     | 7,037   | 5,405     | 1,632     |
| Biometry and epidemiology                   | 4,805                 | 3,417     | 1,388     | 3,009   | 2,188     | 821       | 1,796   | 1,229     | 567       |
| Biophysics                                  | 1,183                 | 1,120     | 63        | 408     | 388       | 20        | 775     | 732       | 43        |
| Botany                                      | 1,860                 | 1,667     | 193       | 985     | 884       | 101       | 875     | 783       | 92        |
| Cell and molecular biology                  | 6,177                 | 5,770     | 407       | 3,290   | 3,036     | 254       | 2,887   | 2,734     | 153       |
| Ecology                                     | 2,165                 | 1,600     | 565       | 1,210   | 889       | 321       | 955     | 711       | 244       |
| Entomology and parasitology                 | 1,126                 | 943       | 183       | 520     | 444       | 76        | 606     | 499       | 107       |
| Genetics                                    | 2,155                 | 2,063     | 92        | 1,309   | 1,259     | 50        | 846     | 804       | 42        |
| Microbiology, immunology, and virology      | 5,401                 | 5,074     | 327       | 3,082   | 2,881     | 201       | 2,319   | 2,193     | 126       |
| Nutrition                                   | 4,817                 | 3,424     | 1,393     | 3,791   | 2,672     | 1,119     | 1,026   | 752       | 274       |
| Pathology                                   | 1,576                 | 1,358     | 218       | 947     | 818       | 129       | 629     | 540       | 89        |
| Pharmacology                                | 3,114                 | 2,905     | 209       | 1,713   | 1,594     | 119       | 1,401   | 1,311     | 90        |
| Physiology                                  | 2,399                 | 2,187     | 212       | 1,255   | 1,159     | 96        | 1,144   | 1,028     | 116       |
| Zoology                                     | 1,264                 | 1,094     | 170       | 636     | 557       | 79        | 628     | 537       | 91        |
| Other                                       | 7,987                 | 6,802     | 1,185     | 4,433   | 3,731     | 702       | 3,554   | 3,071     | 483       |
| Computer sciences                           | 48,046                | 28,317    | 19,729    | 12,061  | 6,628     | 5,433     | 35,985  | 21,689    | 14,296    |
| Earth, atmospheric, and ocean sciences      | 14,827                | 11,370    | 3,457     | 6,888   | 5,264     | 1,624     | 7,939   | 6,106     | 1,833     |
| Atmospheric                                 | 1,146                 | 1,002     | 144       | 388     | 345       | 43        | 758     | 657       | 101       |
| Earth                                       | 7,212                 | 5,537     | 1,675     | 3,043   | 2,363     | 680       | 4,169   | 3,174     | 995       |
| Ocean                                       | 2,760                 | 2,198     | 562       | 1,481   | 1,144     | 337       | 1,279   | 1,054     | 225       |
| Other                                       | 3,709                 | 2,633     | 1,076     | 1,976   | 1,412     | 564       | 1,733   | 1,221     | 512       |
| Mathematics and statistics                  | 20,210                | 15,261    | 4,949     | 7,437   | 5,180     | 2,257     | 12,773  | 10,081    | 2,692     |
| Mathematics/applied mathematics             | 16,106                | 12,051    | 4,055     | 5,560   | 3,712     | 1,848     | 10,546  | 8,339     | 2,207     |
| Statistics                                  | 4,104                 | 3,210     | 894       | 1,877   | 1,468     | 409       | 2,227   | 1,742     | 485       |
| Physical sciences                           | 36,396                | 32,386    | 4,010     | 11,726  | 10,336    | 1,390     | 24,670  | 22,050    | 2,620     |
| Astronomy                                   | 1,191                 | 1,129     | 62        | 394     | 373       | 21        | 797     | 756       | 41        |
| Chemistry                                   | 21,122                | 18,760    | 2,362     | 8,423   | 7,424     | 999       | 12,699  | 11,336    | 1,363     |
| Physics                                     | 13,472                | 12,210    | 1,262     | 2,669   | 2,404     | 265       | 10,803  | 9,806     | 997       |
| Other                                       | 611                   | 287       | 324       | 240     | 135       | 105       | 371     | 152       | 219       |
| Psychology                                  | 57,412                | 38,957    | 18,455    | 43,419  | 29,082    | 14,337    | 13,993  | 9,875     | 4,118     |
| Clinical                                    | 14,283                | 10,531    | 3,752     | 11,012  | 8,082     | 2,930     | 3,271   | 2,449     | 822       |
| General                                     | 16,786                | 12,091    | 4,695     | 12,061  | 8,520     | 3,541     | 4,725   | 3,571     | 1,154     |
| Nonclinical                                 | 26,343                | 16,335    | 10,008    | 20,346  | 12,480    | 7,866     | 5,997   | 3,855     | 2,142     |
| Social sciences                             | 99,846                | 63,751    | 36,095    | 53,549  | 33,433    | 20,116    | 46,297  | 30,318    | 15,979    |
| Agricultural economics                      | 2,118                 | 1,822     | 296       | 873     | 761       | 112       | 1,245   | 1,061     | 184       |
| Anthropology (cultural and social)          | 7,706                 | 5,833     | 1,873     | 4,924   | 3,727     | 1,197     | 2,782   | 2,106     | 676       |
| Economics                                   | 11,805                | 9,715     | 2,090     | 4,254   | 3,465     | 789       | 7,551   | 6,250     | 1,301     |
| Geography                                   | 4,772                 | 3,196     | 1,576     | 2,013   | 1,374     | 639       | 2,759   | 1,822     | 937       |
| History and philosophy of science           | 965                   | 582       | 383       | 440     | 267       | 173       | 525     | 315       | 210       |
| Linguistics                                 | 3,187                 | 2,519     | 668       | 2,055   | 1,599     | 456       | 1,132   | 920       | 212       |
| Political science and public administration | 41,106                | 22,243    | 18,863    | 22,086  | 11,543    | 10,543    | 19,020  | 10,700    | 8,320     |
| Sociology                                   | 9,037                 | 6,633     | 2,404     | 5,800   | 4,191     | 1,609     | 3,237   | 2,442     | 795       |
| Other                                       | 19,150                | 11,208    | 7,942     | 11,104  | 6,506     | 4,598     | 8,046   | 4,702     | 3,344     |
| Engineering                                 | 120,473               | 84,375    | 36,098    | 26,878  | 19,458    | 7,420     | 93,595  | 64,917    | 28,678    |
| Aerospace                                   | 4,170                 | 3,241     | 929       | 607     | 462       | 145       | 3,563   | 2,779     | 784       |
| Agricultural                                | 1,059                 | 855       | 204       | 323     | 272       | 51        | 736     | 583       | 153       |
| Biomedical                                  | 6,067                 | 5,254     | 813       | 2,297   | 2,025     | 272       | 3,770   | 3,229     | 541       |
| Chemical                                    | 7,173                 | 6,139     | 1,034     | 2,079   | 1,776     | 303       | 5,094   | 4,363     | 731       |
| Civil                                       | 18,050                | 13,118    | 4,932     | 5,395   | 4,108     | 1,287     | 12,655  | 9,010     | 3,645     |
| Electrical                                  | 37,444                | 25,843    | 11,601    | 6,788   | 4,759     | 2,029     | 30,656  | 21,084    | 9,572     |
| Engineering sciences/physics                | 1,951                 | 1,613     | 338       | 419     | 352       | 67        | 1,532   | 1,261     | 271       |
| Industrial/manufacturing                    | 13,614                | 6,113     | 7,501     | 3,287   | 1,605     | 1,682     | 10,327  | 4,508     | 5,819     |

TABLE D-10. Enrollment status of S&E graduate students, by field and sex: 2005

| Field                       | All graduate students |           |           | Female |           |           | Male   |           |           |
|-----------------------------|-----------------------|-----------|-----------|--------|-----------|-----------|--------|-----------|-----------|
|                             | Total                 | Full time | Part time | Total  | Full time | Part time | Total  | Full time | Part time |
| Mechanical                  | 17,387                | 12,178    | 5,209     | 2,410  | 1,732     | 678       | 14,977 | 10,446    | 4,531     |
| Metallurgical and materials | 5,160                 | 4,507     | 653       | 1,348  | 1,188     | 160       | 3,812  | 3,319     | 493       |
| Mining                      | 279                   | 212       | 67        | 39     | 29        | 10        | 240    | 183       | 57        |
| Nuclear                     | 1,013                 | 840       | 173       | 211    | 170       | 41        | 802    | 670       | 132       |
| Petroleum                   | 808                   | 631       | 177       | 121    | 104       | 17        | 687    | 527       | 160       |
| Other                       | 6,298                 | 3,831     | 2,467     | 1,554  | 876       | 678       | 4,744  | 2,955     | 1,789     |

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

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

| Sex and field                          | All sources | Federal support |       |       |        |        |       |       |        |       |        | Other outside support |               |        | Self-support |         |
|--|-------------|-----------------|-------|-------|--------|--------|-------|-------|--------|-------|--------|-----------------------|---------------|--------|--------------|---------|
|  |             | Total           | DOD   | DOE   | HHS    |        |       | NASA  | NSF    | USDA  | Other  | Institutional support | United States |        |              | Foreign |
|  |             |                 |       |       | Total  | NIH    | Other |       |        |       |        |                       | Total         | States |              |         |
| S&E                                    | 341,778     | 74,604          | 8,628 | 4,376 | 23,881 | 22,719 | 1,162 | 2,671 | 20,215 | 3,283 | 11,550 | 142,085               | 24,472        | 22,062 | 2,410        | 100,617 |
| Science                                | 257,403     | 53,355          | 3,307 | 2,456 | 21,627 | 20,651 | 976   | 1,395 | 13,353 | 2,950 | 8,267  | 112,379               | 14,677        | 13,139 | 1,538        | 76,992  |
| Agricultural sciences                  | 9,710       | 2,343           | 24    | 53    | 84     | 74     | 10    | 49    | 211    | 1,278 | 644    | 3,987                 | 1,460         | 1,355  | 105          | 1,920   |
| Biological sciences                    | 57,651      | 22,165          | 360   | 253   | 16,153 | 15,634 | 519   | 94    | 2,358  | 1,094 | 1,853  | 23,352                | 3,945         | 3,687  | 258          | 8,189   |
| Anatomy                                | 844         | 281             | 4     | 0     | 216    | 213    | 3     | 1     | 13     | 2     | 45     | 358                   | 60            | 54     | 6            | 145     |
| Biochemistry                           | 5,470       | 2,880           | 49    | 47    | 2,329  | 2,246  | 83    | 7     | 225    | 32    | 191    | 1,832                 | 413           | 399    | 14           | 345     |
| Biology                                | 11,913      | 2,890           | 56    | 33    | 1,548  | 1,505  | 43    | 25    | 787    | 76    | 365    | 6,637                 | 586           | 550    | 36           | 1,800   |
| Biometry/epidemiology                  | 3,417       | 1,287           | 11    | 0     | 1,070  | 997    | 73    | 2     | 49     | 3     | 152    | 917                   | 164           | 142    | 22           | 1,049   |
| Biophysics                             | 1,120       | 556             | 5     | 23    | 452    | 441    | 11    | 1     | 63     | 1     | 11     | 370                   | 128           | 125    | 3            | 66      |
| Botany                                 | 1,667       | 521             | 4     | 34    | 33     | 27     | 6     | 5     | 177    | 198   | 70     | 895                   | 142           | 128    | 14           | 109     |
| Cell/molecular biology                 | 5,770       | 2,890           | 38    | 18    | 2,409  | 2,307  | 102   | 10    | 207    | 51    | 157    | 2,087                 | 419           | 393    | 26           | 374     |
| Ecology                                | 1,600       | 444             | 5     | 8     | 19     | 18     | 1     | 6     | 204    | 46    | 156    | 851                   | 95            | 86     | 9            | 210     |
| Entomology/parasitology                | 943         | 292             | 5     | 1     | 25     | 20     | 5     | 0     | 38     | 172   | 51     | 440                   | 147           | 140    | 7            | 64      |
| Genetics                               | 2,063       | 1,084           | 11    | 5     | 928    | 896    | 32    | 1     | 86     | 27    | 26     | 539                   | 171           | 169    | 2            | 269     |
| Microbiology, immunology, and virology | 5,074       | 2,650           | 57    | 27    | 2,299  | 2,252  | 47    | 12    | 122    | 39    | 94     | 1,773                 | 385           | 371    | 14           | 266     |
| Nutrition                              | 3,424       | 703             | 6     | 1     | 230    | 195    | 35    | 6     | 13     | 357   | 90     | 1,176                 | 298           | 281    | 17           | 1,247   |
| Pathology                              | 1,358       | 526             | 20    | 0     | 431    | 428    | 3     | 1     | 14     | 33    | 27     | 432                   | 143           | 92     | 51           | 257     |
| Pharmacology                           | 2,905       | 1,614           | 42    | 4     | 1,398  | 1,384  | 14    | 1     | 33     | 8     | 128    | 815                   | 242           | 232    | 10           | 234     |
| Physiology                             | 2,187       | 754             | 3     | 0     | 660    | 647    | 13    | 2     | 29     | 4     | 56     | 648                   | 119           | 116    | 3            | 666     |
| Zoology                                | 1,094       | 303             | 9     | 2     | 44     | 44     | 0     | 1     | 119    | 9     | 119    | 668                   | 79            | 77     | 2            | 44      |
| Other                                  | 6,802       | 2,490           | 35    | 50    | 2,062  | 2,014  | 48    | 13    | 179    | 36    | 115    | 2,914                 | 354           | 332    | 22           | 1,044   |
| Computer sciences                      | 28,317      | 5,367           | 1,405 | 156   | 327    | 289    | 38    | 95    | 2,819  | 21    | 544    | 9,028                 | 1,680         | 1,480  | 200          | 12,242  |
| Earth, atmospheric, and ocean sciences | 11,370      | 3,309           | 154   | 166   | 34     | 22     | 12    | 458   | 1,505  | 73    | 919    | 5,026                 | 955           | 859    | 96           | 2,080   |
| Atmospheric                            | 1,002       | 529             | 28    | 32    | 0      | 0      | 0     | 140   | 203    | 4     | 122    | 304                   | 53            | 49     | 4            | 116     |
| Earth                                  | 5,537       | 1,497           | 25    | 99    | 3      | 2      | 1     | 220   | 849    | 24    | 277    | 2,847                 | 398           | 349    | 49           | 795     |
| Ocean                                  | 2,198       | 782             | 73    | 16    | 9      | 9      | 0     | 54    | 332    | 9     | 289    | 805                   | 286           | 263    | 23           | 325     |
| Other                                  | 2,633       | 501             | 28    | 19    | 22     | 11     | 11    | 44    | 121    | 36    | 231    | 1,070                 | 218           | 198    | 20           | 844     |
| Mathematics and statistics             | 15,261      | 1,756           | 187   | 69    | 165    | 155    | 10    | 24    | 1,028  | 35    | 248    | 10,143                | 443           | 360    | 83           | 2,919   |
| Mathematics/applied mathematics        | 12,051      | 1,357           | 165   | 65    | 55     | 54     | 1     | 23    | 831    | 12    | 206    | 8,266                 | 319           | 243    | 76           | 2,109   |
| Statistics                             | 3,210       | 399             | 22    | 4     | 110    | 101    | 9     | 1     | 197    | 23    | 42     | 1,877                 | 124           | 117    | 7            | 810     |
| Physical sciences                      | 32,386      | 11,217          | 892   | 1,695 | 2,622  | 2,468  | 154   | 580   | 4,168  | 40    | 1,220  | 17,138                | 2,188         | 2,095  | 93           | 1,843   |
| Astronomy                              | 1,129       | 509             | 10    | 16    | 27     | 27     | 0     | 193   | 215    | 0     | 48     | 501                   | 89            | 84     | 5            | 30      |
| Chemistry                              | 18,760      | 6,028           | 378   | 524   | 2,377  | 2,238  | 139   | 78    | 1,994  | 35    | 642    | 10,364                | 1,459         | 1,423  | 36           | 909     |
| Physics                                | 12,210      | 4,660           | 504   | 1,155 | 214    | 199    | 15    | 308   | 1,947  | 5     | 527    | 6,187                 | 636           | 584    | 52           | 727     |
| Other                                  | 287         | 20              | 0     | 0     | 4      | 4      | 0     | 1     | 12     | 0     | 3      | 86                    | 4             | 4      | 0            | 177     |
| Psychology                             | 38,957      | 3,702           | 150   | 30    | 1,847  | 1,705  | 142   | 12    | 394    | 18    | 1,251  | 13,843                | 1,420         | 1,390  | 30           | 19,992  |
| Clinical                               | 10,531      | 828             | 24    | 5     | 396    | 356    | 40    | 0     | 6      | 0     | 397    | 2,820                 | 443           | 438    | 5            | 6,440   |
| General                                | 12,091      | 1,523           | 49    | 21    | 879    | 801    | 78    | 8     | 265    | 7     | 294    | 5,554                 | 479           | 464    | 15           | 4,535   |
| Nonclinical                            | 16,335      | 1,351           | 77    | 4     | 572    | 548    | 24    | 4     | 123    | 11    | 560    | 5,469                 | 498           | 488    | 10           | 9,017   |
| Social sciences                        | 63,751      | 3,496           | 135   | 34    | 395    | 304    | 91    | 83    | 870    | 391   | 1,588  | 29,862                | 2,586         | 1,913  | 673          | 27,807  |
| Agricultural economics                 | 1,822       | 420             | 1     | 7     | 2      | 2      | 0     | 0     | 7      | 276   | 127    | 814                   | 120           | 102    | 18           | 468     |
| Anthropology (cultural and social)     | 5,833       | 372             | 4     | 1     | 37     | 28     | 9     | 2     | 163    | 0     | 165    | 3,382                 | 245           | 226    | 19           | 1,834   |

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

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

| Sex and field                               | All sources | Federal support |       |       |        |        |       |       |       |       |       | Other outside support |               |         | Self-support |        |
|---|-------------|-----------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-----------------------|---------------|---------|--------------|--------|
|   |             | Total           | DOD   | DOE   | HHS    |        |       | NASA  | NSF   | USDA  | Other | Institutional support | United States |         |              |        |
|   |             |                 |       |       | Total  | NIH    | Other |       |       |       |       |                       | Total         | Foreign |              |        |
| Economics                                   | 9,715       | 376             | 22    | 1     | 40     | 39     | 1     | 0     | 136   | 40    | 137   | 5,804                 | 408           | 199     | 209          | 3,127  |
| Geography                                   | 3,196       | 466             | 12    | 6     | 17     | 14     | 3     | 70    | 152   | 29    | 180   | 1,684                 | 143           | 130     | 13           | 903    |
| History and philosophy of science           | 582         | 22              | 1     | 0     | 1      | 1      | 0     | 0     | 17    | 0     | 3     | 369                   | 14            | 14      | 0            | 177    |
| Linguistics                                 | 2,519       | 141             | 6     | 0     | 24     | 21     | 3     | 0     | 55    | 0     | 56    | 1,452                 | 112           | 98      | 14           | 814    |
| Political science and public administration | 22,243      | 768             | 73    | 14    | 54     | 17     | 37    | 11    | 142   | 8     | 466   | 8,568                 | 782           | 527     | 255          | 12,125 |
| Sociology                                   | 6,633       | 431             | 5     | 1     | 166    | 147    | 19    | 0     | 119   | 26    | 114   | 4,179                 | 222           | 203     | 19           | 1,801  |
| Other                                       | 11,208      | 500             | 11    | 4     | 54     | 35     | 19    | 0     | 79    | 12    | 340   | 3,610                 | 540           | 414     | 126          | 6,558  |
| Engineering                                 | 84,375      | 21,249          | 5,321 | 1,920 | 2,254  | 2,068  | 186   | 1,276 | 6,862 | 333   | 3,283 | 29,706                | 9,795         | 8,923   | 872          | 23,625 |
| Aerospace                                   | 3,241       | 1,216           | 557   | 42    | 16     | 15     | 1     | 382   | 136   | 1     | 82    | 972                   | 281           | 244     | 37           | 772    |
| Agricultural                                | 855         | 253             | 13    | 6     | 10     | 7      | 3     | 7     | 25    | 121   | 71    | 377                   | 126           | 113     | 13           | 99     |
| Biomedical                                  | 5,254       | 1,639           | 87    | 18    | 1,137  | 1,122  | 15    | 32    | 252   | 5     | 108   | 1,661                 | 679           | 648     | 31           | 1,275  |
| Chemical                                    | 6,139       | 2,097           | 204   | 365   | 274    | 236    | 38    | 90    | 851   | 46    | 267   | 2,343                 | 920           | 870     | 50           | 779    |
| Civil                                       | 13,118      | 2,000           | 180   | 92    | 60     | 32     | 28    | 68    | 652   | 64    | 884   | 5,323                 | 1,169         | 1,055   | 114          | 4,626  |
| Electrical                                  | 25,843      | 6,036           | 1,929 | 236   | 360    | 314    | 46    | 244   | 2,501 | 23    | 743   | 8,334                 | 3,058         | 2,793   | 265          | 8,415  |
| Engineering science/physics                 | 1,613       | 593             | 164   | 78    | 55     | 46     | 9     | 20    | 234   | 1     | 41    | 654                   | 177           | 159     | 18           | 189    |
| Industrial/manufacturing                    | 6,113       | 950             | 342   | 46    | 68     | 56     | 12    | 52    | 291   | 9     | 142   | 2,147                 | 574           | 514     | 60           | 2,442  |
| Mechanical                                  | 12,178      | 3,114           | 703   | 342   | 186    | 159    | 27    | 258   | 1,055 | 19    | 551   | 4,671                 | 1,399         | 1,268   | 131          | 2,994  |
| Metallurgical/materials                     | 4,507       | 1,587           | 364   | 319   | 36     | 31     | 5     | 58    | 639   | 7     | 164   | 1,612                 | 775           | 705     | 70           | 533    |
| Mining                                      | 212         | 40              | 1     | 17    | 1      | 0      | 1     | 2     | 4     | 1     | 14    | 110                   | 15            | 13      | 2            | 47     |
| Nuclear                                     | 840         | 368             | 48    | 231   | 12     | 12     | 0     | 10    | 10    | 0     | 57    | 234                   | 112           | 100     | 12           | 126    |
| Petroleum                                   | 631         | 97              | 0     | 86    | 0      | 0      | 0     | 2     | 4     | 3     | 2     | 180                   | 224           | 185     | 39           | 130    |
| Other                                       | 3,831       | 1,259           | 729   | 42    | 39     | 38     | 1     | 51    | 208   | 33    | 157   | 1,088                 | 286           | 256     | 30           | 1,198  |
| Female                                      | 146,154     | 28,512          | 1,515 | 1,065 | 12,294 | 11,710 | 584   | 773   | 6,585 | 1,514 | 4,766 | 61,156                | 8,370         | 7,733   | 637          | 48,116 |
| Science                                     | 126,696     | 23,884          | 766   | 696   | 11,583 | 11,046 | 537   | 513   | 4,888 | 1,414 | 4,024 | 53,988                | 6,311         | 5,844   | 467          | 42,513 |
| Agricultural sciences                       | 4,699       | 1,035           | 9     | 19    | 45     | 39     | 6     | 13    | 109   | 547   | 293   | 2,049                 | 648           | 611     | 37           | 967    |
| Biological sciences                         | 32,074      | 11,981          | 193   | 130   | 8,778  | 8,500  | 278   | 42    | 1,254 | 615   | 969   | 13,088                | 1,971         | 1,858   | 113          | 5,034  |
| Anatomy                                     | 411         | 137             | 3     | 0     | 109    | 109    | 0     | 0     | 4     | 1     | 20    | 190                   | 23            | 23      | 0            | 61     |
| Biochemistry                                | 2,655       | 1,397           | 22    | 18    | 1,154  | 1,112  | 42    | 2     | 104   | 16    | 81    | 878                   | 193           | 188     | 5            | 187    |
| Biology                                     | 6,508       | 1,565           | 36    | 19    | 837    | 823    | 14    | 10    | 427   | 40    | 196   | 3,650                 | 271           | 255     | 16           | 1,022  |
| Biometry/epidemiology                       | 2,188       | 805             | 8     | 0     | 687    | 632    | 55    | 1     | 20    | 3     | 86    | 594                   | 93            | 87      | 6            | 696    |
| Biophysics                                  | 388         | 192             | 1     | 7     | 152    | 149    | 3     | 0     | 29    | 0     | 3     | 145                   | 36            | 36      | 0            | 15     |
| Botany                                      | 884         | 264             | 2     | 18    | 15     | 12     | 3     | 2     | 91    | 97    | 39    | 492                   | 72            | 70      | 2            | 56     |
| Cell/molecular biology                      | 3,036       | 1,547           | 21    | 9     | 1,300  | 1,240  | 60    | 3     | 110   | 25    | 79    | 1,106                 | 198           | 183     | 15           | 185    |
| Ecology                                     | 889         | 239             | 3     | 3     | 11     | 10     | 1     | 5     | 123   | 25    | 69    | 494                   | 40            | 38      | 2            | 116    |
| Entomology/parasitology                     | 444         | 132             | 3     | 1     | 13     | 11     | 2     | 0     | 16    | 75    | 24    | 214                   | 64            | 62      | 2            | 34     |
| Genetics                                    | 1,259       | 640             | 9     | 4     | 537    | 519    | 18    | 1     | 51    | 15    | 23    | 330                   | 89            | 88      | 1            | 200    |
| Microbiology, immunology, and virology      | 2,881       | 1,476           | 36    | 16    | 1,276  | 1,254  | 22    | 5     | 69    | 19    | 55    | 1,035                 | 211           | 203     | 8            | 159    |
| Nutrition                                   | 2,672       | 512             | 3     | 1     | 177    | 154    | 23    | 4     | 10    | 255   | 62    | 927                   | 190           | 178     | 12           | 1,043  |
| Pathology                                   | 818         | 301             | 10    | 0     | 244    | 243    | 1     | 1     | 9     | 21    | 16    | 256                   | 74            | 51      | 23           | 187    |
| Pharmacology                                | 1,594       | 906             | 18    | 3     | 791    | 782    | 9     | 0     | 18    | 1     | 75    | 435                   | 134           | 129     | 5            | 119    |
| Physiology                                  | 1,159       | 404             | 2     | 0     | 351    | 345    | 6     | 1     | 14    | 2     | 34    | 353                   | 68            | 65      | 3            | 334    |

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

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

| Sex and field                               | All sources | Federal support |     |     |       |       |       |      |       |      |       | Other outside support |               |        | Self-support |         |
|---|-------------|-----------------|-----|-----|-------|-------|-------|------|-------|------|-------|-----------------------|---------------|--------|--------------|---------|
|   |             | Total           | DOD | DOE | HHS   |       |       | NASA | NSF   | USDA | Other | Institutional support | United States |        |              | Foreign |
|   |             |                 |     |     | Total | NIH   | Other |      |       |      |       |                       | Total         | States |              |         |
| Zoology                                     | 557         | 151             | 4   | 0   | 24    | 24    | 0     | 0    | 66    | 4    | 53    | 345                   | 39            | 38     | 1            | 22      |
| Other                                       | 3,731       | 1,313           | 12  | 31  | 1,100 | 1,081 | 19    | 7    | 93    | 16   | 54    | 1,644                 | 176           | 164    | 12           | 598     |
| Computer sciences                           | 6,628       | 1,031           | 183 | 33  | 75    | 66    | 9     | 18   | 602   | 3    | 117   | 2,104                 | 337           | 290    | 47           | 3,156   |
| Earth, atmospheric, and ocean sciences      | 5,264       | 1,474           | 60  | 69  | 23    | 16    | 7     | 204  | 667   | 31   | 420   | 2,381                 | 400           | 366    | 34           | 1,009   |
| Atmospheric                                 | 345         | 184             | 6   | 11  | 0     | 0     | 0     | 60   | 63    | 2    | 42    | 115                   | 16            | 14     | 2            | 30      |
| Earth                                       | 2,363       | 654             | 11  | 38  | 2     | 1     | 1     | 98   | 373   | 11   | 121   | 1,240                 | 152           | 135    | 17           | 317     |
| Ocean                                       | 1,144       | 394             | 33  | 10  | 8     | 8     | 0     | 31   | 180   | 2    | 130   | 434                   | 136           | 128    | 8            | 180     |
| Other                                       | 1,412       | 242             | 10  | 10  | 13    | 7     | 6     | 15   | 51    | 16   | 127   | 592                   | 96            | 89     | 7            | 482     |
| Mathematics and statistics                  | 5,180       | 588             | 34  | 28  | 80    | 72    | 8     | 9    | 328   | 16   | 93    | 3,364                 | 153           | 132    | 21           | 1,075   |
| Mathematics/applied mathematics             | 3,712       | 400             | 24  | 27  | 21    | 21    | 0     | 9    | 242   | 4    | 73    | 2,510                 | 98            | 81     | 17           | 704     |
| Statistics                                  | 1,468       | 188             | 10  | 1   | 59    | 51    | 8     | 0    | 86    | 12   | 20    | 854                   | 55            | 51     | 4            | 371     |
| Physical sciences                           | 10,336      | 3,421           | 178 | 390 | 1,049 | 981   | 68    | 186  | 1,258 | 13   | 347   | 5,630                 | 667           | 650    | 17           | 618     |
| Astronomy                                   | 373         | 169             | 1   | 1   | 9     | 9     | 0     | 71   | 75    | 0    | 12    | 171                   | 21            | 19     | 2            | 12      |
| Chemistry                                   | 7,424       | 2,360           | 108 | 185 | 994   | 934   | 60    | 34   | 790   | 12   | 237   | 4,163                 | 525           | 517    | 8            | 376     |
| Physics                                     | 2,404       | 882             | 69  | 204 | 45    | 37    | 8     | 81   | 385   | 1    | 97    | 1,255                 | 118           | 111    | 7            | 149     |
| Other                                       | 135         | 10              | 0   | 0   | 1     | 1     | 0     | 0    | 8     | 0    | 1     | 41                    | 3             | 3      | 0            | 81      |
| Psychology                                  | 29,082      | 2,551           | 73  | 21  | 1,275 | 1,171 | 104   | 6    | 230   | 14   | 932   | 9,984                 | 1,008         | 996    | 12           | 15,539  |
| Clinical                                    | 8,082       | 614             | 13  | 5   | 308   | 278   | 30    | 0    | 4     | 0    | 284   | 2,125                 | 336           | 331    | 5            | 5,007   |
| General                                     | 8,520       | 988             | 20  | 15  | 590   | 532   | 58    | 3    | 154   | 6    | 200   | 3,868                 | 303           | 298    | 5            | 3,361   |
| Nonclinical                                 | 12,480      | 949             | 40  | 1   | 377   | 361   | 16    | 3    | 72    | 8    | 448   | 3,991                 | 369           | 367    | 2            | 7,171   |
| Social sciences                             | 33,433      | 1,803           | 36  | 6   | 258   | 201   | 57    | 35   | 440   | 175  | 853   | 15,388                | 1,127         | 941    | 186          | 15,115  |
| Agricultural economics                      | 761         | 191             | 1   | 2   | 0     | 0     | 0     | 0    | 3     | 121  | 64    | 350                   | 41            | 38     | 3            | 179     |
| Anthropology (cultural and social)          | 3,727       | 251             | 2   | 0   | 31    | 22    | 9     | 1    | 106   | 0    | 111   | 2,133                 | 155           | 145    | 10           | 1,188   |
| Economics                                   | 3,465       | 137             | 0   | 1   | 18    | 18    | 0     | 0    | 53    | 17   | 48    | 2,138                 | 107           | 67     | 40           | 1,083   |
| Geography                                   | 1,374       | 189             | 5   | 2   | 7     | 5     | 2     | 26   | 51    | 11   | 87    | 743                   | 58            | 53     | 5            | 384     |
| History and philosophy of science           | 267         | 11              | 0   | 0   | 1     | 1     | 0     | 0    | 8     | 0    | 2     | 171                   | 9             | 9      | 0            | 76      |
| Linguistics                                 | 1,599       | 76              | 3   | 0   | 8     | 7     | 1     | 0    | 29    | 0    | 36    | 936                   | 69            | 64     | 5            | 518     |
| Political science and public administration | 11,543      | 379             | 16  | 1   | 32    | 13    | 19    | 8    | 77    | 6    | 239   | 4,195                 | 313           | 245    | 68           | 6,656   |
| Sociology                                   | 4,191       | 294             | 3   | 0   | 120   | 106   | 14    | 0    | 79    | 16   | 76    | 2,636                 | 136           | 126    | 10           | 1,125   |
| Other                                       | 6,506       | 275             | 6   | 0   | 41    | 29    | 12    | 0    | 34    | 4    | 190   | 2,086                 | 239           | 194    | 45           | 3,906   |
| Engineering                                 | 19,458      | 4,628           | 749 | 369 | 711   | 664   | 47    | 260  | 1,697 | 100  | 742   | 7,168                 | 2,059         | 1,889  | 170          | 5,603   |
| Aerospace                                   | 462         | 145             | 37  | 4   | 3     | 3     | 0     | 58   | 35    | 0    | 8     | 153                   | 49            | 43     | 6            | 115     |
| Agricultural                                | 272         | 84              | 6   | 1   | 6     | 3     | 3     | 3    | 7     | 44   | 17    | 128                   | 38            | 36     | 2            | 22      |
| Biomedical                                  | 2,025       | 606             | 28  | 4   | 421   | 416   | 5     | 8    | 106   | 2    | 37    | 643                   | 267           | 256    | 11           | 509     |
| Chemical                                    | 1,776       | 606             | 40  | 95  | 90    | 80    | 10    | 23   | 262   | 18   | 78    | 708                   | 254           | 241    | 13           | 208     |
| Civil                                       | 4,108       | 637             | 37  | 33  | 21    | 14    | 7     | 26   | 229   | 17   | 274   | 1,716                 | 285           | 256    | 29           | 1,470   |
| Electrical                                  | 4,759       | 1,032           | 273 | 34  | 75    | 65    | 10    | 50   | 479   | 3    | 118   | 1,564                 | 490           | 444    | 46           | 1,673   |
| Engineering science/physics                 | 352         | 140             | 20  | 13  | 16    | 14    | 2     | 6    | 69    | 0    | 16    | 145                   | 27            | 19     | 8            | 40      |
| Industrial/manufacturing                    | 1,605       | 203             | 55  | 9   | 15    | 13    | 2     | 11   | 80    | 2    | 31    | 611                   | 145           | 135    | 10           | 646     |

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

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

| Sex and field                          | All sources | Federal support |       |       |        |        |       |       |        |       |       | Other outside support |               |         | Self-support |        |
|--|-------------|-----------------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-----------------------|---------------|---------|--------------|--------|
|  |             | Total           | DOD   | DOE   | HHS    |        |       | NASA  | NSF    | USDA  | Other | Institutional support | United States |         |              |        |
|  |             |                 |       |       | Total  | NIH    | Other |       |        |       |       |                       | Total         | Foreign |              |        |
| Mechanical                             | 1,732       | 435             | 92    | 35    | 33     | 26     | 7     | 35    | 178    | 1     | 61    | 690                   | 186           | 175     | 11           | 421    |
| Metallurgical/materials                | 1,188       | 417             | 76    | 77    | 12     | 11     | 1     | 21    | 187    | 3     | 41    | 438                   | 200           | 180     | 20           | 133    |
| Mining                                 | 29          | 4               | 0     | 1     | 0      | 0      | 0     | 0     | 2      | 0     | 1     | 13                    | 0             | 0       | 0            | 12     |
| Nuclear                                | 170         | 62              | 6     | 40    | 5      | 5      | 0     | 2     | 3      | 0     | 6     | 57                    | 29            | 23      | 6            | 22     |
| Petroleum                              | 104         | 20              | 0     | 17    | 0      | 0      | 0     | 1     | 0      | 2     | 0     | 32                    | 32            | 30      | 2            | 20     |
| Other                                  | 876         | 237             | 79    | 6     | 14     | 14     | 0     | 16    | 60     | 8     | 54    | 270                   | 57            | 51      | 6            | 312    |
| Male                                   | 195,624     | 46,092          | 7,113 | 3,311 | 11,587 | 11,009 | 578   | 1,898 | 13,630 | 1,769 | 6,784 | 80,929                | 16,102        | 14,329  | 1,773        | 52,501 |
| Science                                | 130,707     | 29,471          | 2,541 | 1,760 | 10,044 | 9,605  | 439   | 882   | 8,465  | 1,536 | 4,243 | 58,391                | 8,366         | 7,295   | 1,071        | 34,479 |
| Agricultural sciences                  | 5,011       | 1,308           | 15    | 34    | 39     | 35     | 4     | 36    | 102    | 731   | 351   | 1,938                 | 812           | 744     | 68           | 953    |
| Biological sciences                    | 25,577      | 10,184          | 167   | 123   | 7,375  | 7,134  | 241   | 52    | 1,104  | 479   | 884   | 10,264                | 1,974         | 1,829   | 145          | 3,155  |
| Anatomy                                | 433         | 144             | 1     | 0     | 107    | 104    | 3     | 1     | 9      | 1     | 25    | 168                   | 37            | 31      | 6            | 84     |
| Biochemistry                           | 2,815       | 1,483           | 27    | 29    | 1,175  | 1,134  | 41    | 5     | 121    | 16    | 110   | 954                   | 220           | 211     | 9            | 158    |
| Biology                                | 5,405       | 1,325           | 20    | 14    | 711    | 682    | 29    | 15    | 360    | 36    | 169   | 2,987                 | 315           | 295     | 20           | 778    |
| Biometry/epidemiology                  | 1,229       | 482             | 3     | 0     | 383    | 365    | 18    | 1     | 29     | 0     | 66    | 323                   | 71            | 55      | 16           | 353    |
| Biophysics                             | 732         | 364             | 4     | 16    | 300    | 292    | 8     | 1     | 34     | 1     | 8     | 225                   | 92            | 89      | 3            | 51     |
| Botany                                 | 783         | 257             | 2     | 16    | 18     | 15     | 3     | 3     | 86     | 101   | 31    | 403                   | 70            | 58      | 12           | 53     |
| Cell/molecular biology                 | 2,734       | 1,343           | 17    | 9     | 1,109  | 1,067  | 42    | 7     | 97     | 26    | 78    | 981                   | 221           | 210     | 11           | 189    |
| Ecology                                | 711         | 205             | 2     | 5     | 8      | 8      | 0     | 1     | 81     | 21    | 87    | 357                   | 55            | 48      | 7            | 94     |
| Entomology/parasitology                | 499         | 160             | 2     | 0     | 12     | 9      | 3     | 0     | 22     | 97    | 27    | 226                   | 83            | 78      | 5            | 30     |
| Genetics                               | 804         | 444             | 2     | 1     | 391    | 377    | 14    | 0     | 35     | 12    | 3     | 209                   | 82            | 81      | 1            | 69     |
| Microbiology, immunology, and virology | 2,193       | 1,174           | 21    | 11    | 1,023  | 998    | 25    | 7     | 53     | 20    | 39    | 738                   | 174           | 168     | 6            | 107    |
| Nutrition                              | 752         | 191             | 3     | 0     | 53     | 41     | 12    | 2     | 3      | 102   | 28    | 249                   | 108           | 103     | 5            | 204    |
| Pathology                              | 540         | 225             | 10    | 0     | 187    | 185    | 2     | 0     | 5      | 12    | 11    | 176                   | 69            | 41      | 28           | 70     |
| Pharmacology                           | 1,311       | 708             | 24    | 1     | 607    | 602    | 5     | 1     | 15     | 7     | 53    | 380                   | 108           | 103     | 5            | 115    |
| Physiology                             | 1,028       | 350             | 1     | 0     | 309    | 302    | 7     | 1     | 15     | 2     | 22    | 295                   | 51            | 51      | 0            | 332    |
| Zoology                                | 537         | 152             | 5     | 2     | 20     | 20     | 0     | 1     | 53     | 5     | 66    | 323                   | 40            | 39      | 1            | 22     |
| Other                                  | 3,071       | 1,177           | 23    | 19    | 962    | 933    | 29    | 6     | 86     | 20    | 61    | 1,270                 | 178           | 168     | 10           | 446    |
| Computer sciences                      | 21,689      | 4,336           | 1,222 | 123   | 252    | 223    | 29    | 77    | 2,217  | 18    | 427   | 6,924                 | 1,343         | 1,190   | 153          | 9,086  |
| Earth, atmospheric, and ocean sciences | 6,106       | 1,835           | 94    | 97    | 11     | 6      | 5     | 254   | 838    | 42    | 499   | 2,645                 | 555           | 493     | 62           | 1,071  |
| Atmospheric                            | 657         | 345             | 22    | 21    | 0      | 0      | 0     | 80    | 140    | 2     | 80    | 189                   | 37            | 35      | 2            | 86     |
| Earth                                  | 3,174       | 843             | 14    | 61    | 1      | 1      | 0     | 122   | 476    | 13    | 156   | 1,607                 | 246           | 214     | 32           | 478    |
| Ocean                                  | 1,054       | 388             | 40    | 6     | 1      | 1      | 0     | 23    | 152    | 7     | 159   | 371                   | 150           | 135     | 15           | 145    |
| Other                                  | 1,221       | 259             | 18    | 9     | 9      | 4      | 5     | 29    | 70     | 20    | 104   | 478                   | 122           | 109     | 13           | 362    |
| Mathematics and statistics             | 10,081      | 1,168           | 153   | 41    | 85     | 83     | 2     | 15    | 700    | 19    | 155   | 6,779                 | 290           | 228     | 62           | 1,844  |
| Mathematics/applied mathematics        | 8,339       | 957             | 141   | 38    | 34     | 33     | 1     | 14    | 589    | 8     | 133   | 5,756                 | 221           | 162     | 59           | 1,405  |
| Statistics                             | 1,742       | 211             | 12    | 3     | 51     | 50     | 1     | 1     | 111    | 11    | 22    | 1,023                 | 69            | 66      | 3            | 439    |
| Physical sciences                      | 22,050      | 7,796           | 714   | 1,305 | 1,573  | 1,487  | 86    | 394   | 2,910  | 27    | 873   | 11,508                | 1,521         | 1,445   | 76           | 1,225  |
| Astronomy                              | 756         | 340             | 9     | 15    | 18     | 18     | 0     | 122   | 140    | 0     | 36    | 330                   | 68            | 65      | 3            | 18     |
| Chemistry                              | 11,336      | 3,668           | 270   | 339   | 1,383  | 1,304  | 79    | 44    | 1,204  | 23    | 405   | 6,201                 | 934           | 906     | 28           | 533    |

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



TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

| Sex and field                               | All sources | Federal support |       |       |       |       |       |       |       |      |       | Other outside support |               |         | Self-support |        |
|---|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-----------------------|---------------|---------|--------------|--------|
|   |             | Total           | DOD   | DOE   | HHS   |       |       | NASA  | NSF   | USDA | Other | Institutional support | United States |         |              |        |
|   |             |                 |       |       | Total | NIH   | Other |       |       |      |       |                       | Total         | Foreign |              |        |
| Physics                                     | 9,806       | 3,778           | 435   | 951   | 169   | 162   | 7     | 227   | 1,562 | 4    | 430   | 4,932                 | 518           | 473     | 45           | 578    |
| Other                                       | 152         | 10              | 0     | 0     | 3     | 3     | 0     | 1     | 4     | 0    | 2     | 45                    | 1             | 1       | 0            | 96     |
| Psychology                                  | 9,875       | 1,151           | 77    | 9     | 572   | 534   | 38    | 6     | 164   | 4    | 319   | 3,859                 | 412           | 394     | 18           | 4,453  |
| Clinical                                    | 2,449       | 214             | 11    | 0     | 88    | 78    | 10    | 0     | 2     | 0    | 113   | 695                   | 107           | 107     | 0            | 1,433  |
| General                                     | 3,571       | 535             | 29    | 6     | 289   | 269   | 20    | 5     | 111   | 1    | 94    | 1,686                 | 176           | 166     | 10           | 1,174  |
| Nonclinical                                 | 3,855       | 402             | 37    | 3     | 195   | 187   | 8     | 1     | 51    | 3    | 112   | 1,478                 | 129           | 121     | 8            | 1,846  |
| Social sciences                             | 30,318      | 1,693           | 99    | 28    | 137   | 103   | 34    | 48    | 430   | 216  | 735   | 14,474                | 1,459         | 972     | 487          | 12,692 |
| Agricultural economics                      | 1,061       | 229             | 0     | 5     | 2     | 2     | 0     | 0     | 4     | 155  | 63    | 464                   | 79            | 64      | 15           | 289    |
| Anthropology (cultural and social)          | 2,106       | 121             | 2     | 1     | 6     | 6     | 0     | 1     | 57    | 0    | 54    | 1,249                 | 90            | 81      | 9            | 646    |
| Economics                                   | 6,250       | 239             | 22    | 0     | 22    | 21    | 1     | 0     | 83    | 23   | 89    | 3,666                 | 301           | 132     | 169          | 2,044  |
| Geography                                   | 1,822       | 277             | 7     | 4     | 10    | 9     | 1     | 44    | 101   | 18   | 93    | 941                   | 85            | 77      | 8            | 519    |
| History and philosophy of science           | 315         | 11              | 1     | 0     | 0     | 0     | 0     | 0     | 9     | 0    | 1     | 198                   | 5             | 5       | 0            | 101    |
| Linguistics                                 | 920         | 65              | 3     | 0     | 16    | 14    | 2     | 0     | 26    | 0    | 20    | 516                   | 43            | 34      | 9            | 296    |
| Political science and public administration | 10,700      | 389             | 57    | 13    | 22    | 4     | 18    | 3     | 65    | 2    | 227   | 4,373                 | 469           | 282     | 187          | 5,469  |
| Sociology                                   | 2,442       | 137             | 2     | 1     | 46    | 41    | 5     | 0     | 40    | 10   | 38    | 1,543                 | 86            | 77      | 9            | 676    |
| Other                                       | 4,702       | 225             | 5     | 4     | 13    | 6     | 7     | 0     | 45    | 8    | 150   | 1,524                 | 301           | 220     | 81           | 2,652  |
| Engineering                                 | 64,917      | 16,621          | 4,572 | 1,551 | 1,543 | 1,404 | 139   | 1,016 | 5,165 | 233  | 2,541 | 22,538                | 7,736         | 7,034   | 702          | 18,022 |
| Aerospace                                   | 2,779       | 1,071           | 520   | 38    | 13    | 12    | 1     | 324   | 101   | 1    | 74    | 819                   | 232           | 201     | 31           | 657    |
| Agricultural                                | 583         | 169             | 7     | 5     | 4     | 4     | 0     | 4     | 18    | 77   | 54    | 249                   | 88            | 77      | 11           | 77     |
| Biomedical                                  | 3,229       | 1,033           | 59    | 14    | 716   | 706   | 10    | 24    | 146   | 3    | 71    | 1,018                 | 412           | 392     | 20           | 766    |
| Chemical                                    | 4,363       | 1,491           | 164   | 270   | 184   | 156   | 28    | 67    | 589   | 28   | 189   | 1,635                 | 666           | 629     | 37           | 571    |
| Civil                                       | 9,010       | 1,363           | 143   | 59    | 39    | 18    | 21    | 42    | 423   | 47   | 610   | 3,607                 | 884           | 799     | 85           | 3,156  |
| Electrical                                  | 21,084      | 5,004           | 1,656 | 202   | 285   | 249   | 36    | 194   | 2,022 | 20   | 625   | 6,770                 | 2,568         | 2,349   | 219          | 6,742  |
| Engineering science/physics                 | 1,261       | 453             | 144   | 65    | 39    | 32    | 7     | 14    | 165   | 1    | 25    | 509                   | 150           | 140     | 10           | 149    |
| Industrial/manufacturing                    | 4,508       | 747             | 287   | 37    | 53    | 43    | 10    | 41    | 211   | 7    | 111   | 1,536                 | 429           | 379     | 50           | 1,796  |
| Mechanical                                  | 10,446      | 2,679           | 611   | 307   | 153   | 133   | 20    | 223   | 877   | 18   | 490   | 3,981                 | 1,213         | 1,093   | 120          | 2,573  |
| Metallurgical/materials                     | 3,319       | 1,170           | 288   | 242   | 24    | 20    | 4     | 37    | 452   | 4    | 123   | 1,174                 | 575           | 525     | 50           | 400    |
| Mining                                      | 183         | 36              | 1     | 16    | 1     | 0     | 1     | 2     | 2     | 1    | 13    | 97                    | 15            | 13      | 2            | 35     |
| Nuclear                                     | 670         | 306             | 42    | 191   | 7     | 7     | 0     | 8     | 7     | 0    | 51    | 177                   | 83            | 77      | 6            | 104    |
| Petroleum                                   | 527         | 77              | 0     | 69    | 0     | 0     | 0     | 1     | 4     | 1    | 2     | 148                   | 192           | 155     | 37           | 110    |
| Other                                       | 2,955       | 1,022           | 650   | 36    | 25    | 24    | 1     | 35    | 148   | 25   | 103   | 818                   | 229           | 205     | 24           | 886    |

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture

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

TABLE E-2. Master's degrees awarded to women, by field: 1996–2005

| Field                                       | 1996    | 1997    | 1998    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 1996    | 2005 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
|   | Number  |         |         |         |         |         |         |         |         | Percent |      |
| All fields                                  | 228,572 | 239,497 | 246,810 | 265,026 | 273,639 | 283,035 | 300,845 | 328,202 | 337,818 | 55.9    | 59.5 |
| S&E   | 37,453  | 38,262  | 38,583  | 41,470  | 43,393  | 43,472  | 46,711  | 51,672  | 53,051  | 39.3    | 44.2 |
| Sciences                                    | 32,701  | 33,567  | 33,420  | 36,130  | 37,765  | 37,898  | 40,527  | 44,537  | 45,444  | 48.4    | 52.9 |
| Agricultural sciences                       | 1,707   | 1,695   | 1,709   | 1,819   | 1,837   | 1,997   | 2,059   | 2,256   | 2,220   | 42.5    | 53.2 |
| Biological sciences                         | 3,341   | 3,518   | 3,354   | 3,510   | 3,755   | 3,669   | 4,018   | 4,487   | 4,870   | 53.1    | 60.1 |
| Computer sciences                           | 2,850   | 2,979   | 3,414   | 4,868   | 5,508   | 5,499   | 6,091   | 6,195   | 5,078   | 26.9    | 28.5 |
| Earth, atmospheric, and ocean sciences      | 436     | 487     | 494     | 513     | 564     | 572     | 612     | 701     | 712     | 29.3    | 42.3 |
| Atmospheric sciences                        | 35      | 42      | 52      | 37      | 40      | 46      | 55      | 67      | 70      | 17.6    | 27.5 |
| Earth sciences                              | 347     | 393     | 397     | 434     | 472     | 473     | 501     | 566     | 577     | 30.3    | 43.9 |
| Ocean sciences                              | 54      | 52      | 45      | 42      | 52      | 53      | 56      | 68      | 65      | 38.0    | 56.0 |
| Mathematics and statistics                  | 1,506   | 1,489   | 1,470   | 1,498   | 1,389   | 1,471   | 1,677   | 1,950   | 2,011   | 40.2    | 43.7 |
| Physical sciences                           | 1,450   | 1,333   | 1,440   | 1,215   | 1,301   | 1,326   | 1,324   | 1,513   | 1,529   | 33.2    | 37.1 |
| Astronomy                                   | 27      | 32      | 30      | 25      | 36      | 27      | 42      | 53      | 62      | 23.5    | 39.0 |
| Chemistry                                   | 998     | 927     | 998     | 823     | 825     | 852     | 829     | 950     | 939     | 43.9    | 49.1 |
| Physics                                     | 301     | 255     | 255     | 244     | 286     | 286     | 313     | 413     | 427     | 17.9    | 23.1 |
| Other                                       | 124     | 119     | 157     | 123     | 154     | 161     | 140     | 97      | 101     | 42.8    | 50.8 |
| Psychology                                  | 9,373   | 9,918   | 9,540   | 10,293  | 10,858  | 10,672  | 11,100  | 11,950  | 12,632  | 71.9    | 78.6 |
| Social sciences                             | 12,038  | 12,148  | 11,999  | 12,414  | 12,553  | 12,692  | 13,646  | 15,485  | 16,392  | 50.2    | 55.8 |
| Anthropology                                | 631     | 712     | 686     | 587     | 689     | 642     | 655     | 721     | 737     | 60.0    | 66.6 |
| Area and ethnic studies                     | 856     | 845     | 842     | 879     | 896     | 879     | 888     | 961     | 988     | 51.7    | 58.8 |
| Economics                                   | 1,002   | 953     | 944     | 952     | 973     | 1,050   | 1,161   | 1,252   | 1,391   | 33.8    | 39.7 |
| History of science                          | 4       | 7       | 7       | 6       | 10      | 17      | 10      | 14      | 12      | 40.0    | 41.4 |
| Linguistics                                 | 393     | 418     | 389     | 407     | 380     | 360     | 380     | 410     | 433     | 65.4    | 70.9 |
| Political science and public administration | 6,654   | 6,691   | 6,566   | 6,720   | 6,841   | 6,978   | 7,723   | 8,828   | 9,756   | 49.8    | 56.2 |
| Sociology                                   | 1,180   | 1,142   | 1,118   | 1,387   | 1,258   | 1,315   | 1,296   | 1,358   | 1,033   | 64.8    | 68.1 |
| Other                                       | 1,318   | 1,380   | 1,447   | 1,476   | 1,506   | 1,451   | 1,533   | 1,941   | 2,042   | 52.3    | 57.4 |
| Engineering                                 | 4,752   | 4,695   | 5,163   | 5,340   | 5,628   | 5,574   | 6,184   | 7,135   | 7,607   | 17.1    | 22.3 |
| Aerospace engineering                       | 92      | 75      | 81      | 76      | 90      | 125     | 107     | 149     | 164     | 11.9    | 17.3 |
| Chemical engineering                        | 306     | 332     | 344     | 344     | 352     | 335     | 343     | 417     | 425     | 21.6    | 28.2 |
| Civil engineering                           | 1,064   | 1,099   | 1,154   | 1,075   | 1,061   | 1,063   | 1,148   | 1,211   | 1,322   | 21.3    | 28.5 |
| Electrical engineering                      | 1,196   | 1,144   | 1,376   | 1,558   | 1,673   | 1,561   | 1,902   | 2,385   | 2,470   | 14.7    | 21.2 |
| Industrial engineering                      | 624     | 604     | 676     | 648     | 789     | 795     | 844     | 906     | 919     | 20.6    | 23.3 |
| Materials engineering                       | 175     | 174     | 170     | 201     | 173     | 171     | 183     | 199     | 204     | 22.6    | 25.8 |
| Mechanical engineering                      | 454     | 419     | 461     | 455     | 448     | 468     | 459     | 563     | 598     | 11.3    | 12.6 |
| Other                                       | 841     | 848     | 901     | 983     | 1,042   | 1,056   | 1,198   | 1,305   | 1,505   | 18.3    | 25.5 |
| Non-S&E                                     | 191,119 | 201,235 | 208,227 | 223,556 | 230,246 | 239,563 | 254,134 | 276,530 | 284,767 | 60.9    | 63.6 |

NOTE: 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 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-2. S&E doctoral degrees awarded to women, by field: 1998–2005

| Field                                       | 1998   | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005   | 1998    | 2005 |
|---|--------|-------|-------|-------|-------|-------|-------|--------|---------|------|
|   | Number |       |       |       |       |       |       |        | Percent |      |
| All S&E                                     | 9,348  | 9,081 | 9,393 | 9,286 | 9,163 | 9,517 | 9,856 | 10,533 | 34.3    | 37.7 |
| Science                                     | 8,575  | 8,293 | 8,555 | 8,356 | 8,272 | 8,606 | 8,835 | 9,359  | 40.2    | 43.4 |
| Agricultural sciences                       | 328    | 311   | 317   | 339   | 319   | 374   | 399   | 376    | 29.6    | 36.2 |
| Biological sciences                         | 2,536  | 2,394 | 2,622 | 2,550 | 2,545 | 2,604 | 2,756 | 3,105  | 43.4    | 48.8 |
| Computer sciences                           | 159    | 157   | 141   | 155   | 166   | 176   | 199   | 225    | 17.2    | 19.8 |
| Earth, atmospheric, and ocean sciences      | 198    | 185   | 196   | 198   | 211   | 213   | 238   | 243    | 25.9    | 34.1 |
| Atmospheric sciences                        | 30     | 22    | 33    | 28    | 31    | 39    | 46    | 51     | 24.0    | 35.4 |
| Earth sciences                              | 127    | 112   | 108   | 115   | 121   | 104   | 132   | 127    | 25.2    | 30.2 |
| Ocean sciences                              | 41     | 51    | 55    | 55    | 59    | 70    | 60    | 65     | 30.1    | 43.6 |
| Mathematics and statistics                  | 297    | 277   | 259   | 276   | 266   | 264   | 305   | 326    | 25.2    | 27.1 |
| Physical sciences                           | 917    | 825   | 827   | 828   | 847   | 891   | 865   | 972    | 24.1    | 26.7 |
| Astronomy                                   | 45     | 33    | 40    | 41    | 27    | 40    | 46    | 49     | 21.8    | 26.3 |
| Chemistry                                   | 695    | 632   | 624   | 627   | 644   | 655   | 636   | 723    | 31.4    | 34.0 |
| Physics                                     | 177    | 160   | 163   | 160   | 176   | 196   | 183   | 200    | 12.8    | 15.0 |
| Psychology                                  | 2,456  | 2,449 | 2,410 | 2,260 | 2,132 | 2,231 | 2,246 | 2,264  | 66.9    | 68.0 |
| Social sciences                             | 1,684  | 1,695 | 1,783 | 1,750 | 1,786 | 1,853 | 1,827 | 1,848  | 41.5    | 44.7 |
| Anthropology                                | 262    | 274   | 276   | 263   | 305   | 308   | 311   | 285    | 57.1    | 57.1 |
| Area and ethnic studies                     | 63     | 59    | 67    | 97    | 70    | 73    | 78    | 59     | 55.3    | 53.6 |
| Economics                                   | 312    | 291   | 293   | 306   | 281   | 303   | 315   | 355    | 27.0    | 30.0 |
| History of science                          | 20     | 18    | 17    | 8     | 12    | 23    | 12    | 16     | 45.5    | 37.2 |
| Linguistics                                 | 123    | 148   | 135   | 136   | 115   | 133   | 150   | 137    | 55.9    | 64.9 |
| Political science and public administration | 364    | 356   | 364   | 330   | 395   | 398   | 346   | 409    | 38.0    | 41.3 |
| Sociology                                   | 317    | 342   | 376   | 337   | 345   | 361   | 353   | 344    | 54.7    | 62.0 |
| Other                                       | 223    | 207   | 255   | 273   | 263   | 254   | 262   | 243    | 42.6    | 44.5 |
| Engineering                                 | 773    | 788   | 838   | 930   | 891   | 911   | 1,021 | 1,174  | 13.1    | 18.3 |
| Aerospace engineering                       | 15     | 17    | 21    | 28    | 24    | 27    | 24    | 29     | 6.2     | 13.2 |
| Chemical engineering                        | 140    | 123   | 152   | 180   | 176   | 154   | 173   | 210    | 18.0    | 24.0 |
| Civil engineering                           | 100    | 89    | 88    | 111   | 121   | 126   | 134   | 176    | 15.4    | 23.2 |
| Electrical engineering                      | 156    | 155   | 195   | 204   | 163   | 181   | 227   | 249    | 9.8     | 13.4 |
| Industrial engineering                      | 40     | 42    | 35    | 45    | 67    | 55    | 43    | 41     | 17.5    | 18.5 |
| Materials engineering                       | 84     | 88    | 83    | 105   | 80    | 101   | 91    | 120    | 14.9    | 22.2 |
| Mechanical engineering                      | 93     | 96    | 96    | 91    | 96    | 88    | 95    | 120    | 9.1     | 12.3 |
| Other                                       | 145    | 178   | 168   | 166   | 164   | 179   | 234   | 229    | 17.2    | 23.8 |

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

TABLE F-3. S&E doctoral degrees awarded to men, by field: 1998–2005

| Field                                       | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E                                     | 17,809 | 16,734 | 16,519 | 16,166 | 15,369 | 15,757 | 16,415 | 17,405 |
| Science                                     | 12,699 | 12,230 | 12,060 | 11,598 | 11,197 | 11,389 | 11,661 | 12,190 |
| Agricultural sciences                       | 780    | 749    | 718    | 629    | 683    | 686    | 646    | 659    |
| Biological sciences                         | 3,295  | 3,170  | 3,225  | 3,134  | 3,143  | 3,089  | 3,183  | 3,257  |
| Computer sciences                           | 765    | 692    | 717    | 668    | 638    | 690    | 749    | 909    |
| Earth, atmospheric, and ocean sciences      | 563    | 535    | 495    | 461    | 478    | 470    | 448    | 470    |
| Atmospheric sciences                        | 93     | 101    | 108    | 87     | 86     | 100    | 80     | 93     |
| Earth sciences                              | 376    | 338    | 278    | 278    | 305    | 270    | 288    | 293    |
| Ocean sciences                              | 94     | 96     | 109    | 96     | 87     | 100    | 80     | 84     |
| Mathematics and statistics                  | 873    | 803    | 790    | 731    | 650    | 729    | 771    | 875    |
| Physical sciences                           | 2,865  | 2,722  | 2,546  | 2,531  | 2,334  | 2,398  | 2,472  | 2,672  |
| Astronomy                                   | 161    | 126    | 145    | 145    | 114    | 127    | 119    | 137    |
| Chemistry                                   | 1,509  | 1,493  | 1,361  | 1,350  | 1,276  | 1,386  | 1,350  | 1,403  |
| Physics                                     | 1,195  | 1,103  | 1,040  | 1,036  | 944    | 885    | 1003   | 1,132  |
| Psychology                                  | 1,205  | 1,209  | 1,203  | 1,121  | 1,060  | 1,042  | 1,081  | 1,062  |
| Social sciences                             | 2,353  | 2,350  | 2,366  | 2,323  | 2,211  | 2,285  | 2,311  | 2,286  |
| Anthropology                                | 194    | 214    | 206    | 187    | 216    | 197    | 254    | 213    |
| Area and ethnic studies                     | 51     | 48     | 60     | 49     | 52     | 33     | 55     | 51     |
| Economics                                   | 841    | 781    | 790    | 773    | 738    | 747    | 754    | 827    |
| History of science                          | 24     | 32     | 25     | 32     | 35     | 23     | 36     | 27     |
| Linguistics                                 | 96     | 99     | 95     | 94     | 78     | 91     | 104    | 73     |
| Political science and public administration | 593    | 655    | 620    | 650    | 540    | 626    | 600    | 581    |
| Sociology                                   | 260    | 228    | 260    | 240    | 221    | 251    | 246    | 211    |
| Other                                       | 294    | 293    | 310    | 298    | 331    | 317    | 262    | 303    |
| Engineering                                 | 5,110  | 4,504  | 4,459  | 4,568  | 4,172  | 4,368  | 4,754  | 5,215  |
| Aerospace engineering                       | 225    | 188    | 191    | 174    | 185    | 173    | 177    | 190    |
| Chemical engineering                        | 630    | 550    | 571    | 547    | 527    | 494    | 552    | 662    |
| Civil engineering                           | 544    | 495    | 466    | 483    | 505    | 547    | 539    | 580    |
| Electrical engineering                      | 1,428  | 1,310  | 1,338  | 1,372  | 1,223  | 1,284  | 1,423  | 1,598  |
| Industrial engineering                      | 188    | 169    | 140    | 160    | 162    | 159    | 174    | 178    |
| Materials engineering                       | 477    | 376    | 367    | 392    | 315    | 373    | 420    | 419    |
| Mechanical engineering                      | 923    | 751    | 767    | 860    | 729    | 726    | 757    | 858    |
| Other                                       | 695    | 665    | 619    | 580    | 526    | 612    | 712    | 730    |

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

TABLE F-4. Top baccalaureate institutions of S&E doctorate recipients, by sex: 2001–2005

| Academic institution                                     | Doctorates | Academic institution                                     | Doctorates |
|--|------------|--|------------|
| Female, all institutions                                 | 48,355     | Male, all institutions                                   | 81,112     |
| Foreign  | 11,695     | Foreign  | 30,387     |
| Unknown  | 4,180      | Unknown  | 7,556      |
| Top 50 U.S.  | 11,518     | Top 50 U.S.  | 16,870     |
| University of California-Berkeley                        | 556        | University of California-Berkeley                        | 913        |
| Cornell University all campuses                          | 473        | Cornell University all campuses                          | 668        |
| University of Michigan at Ann Arbor                      | 454        | University of Illinois at Urbana-Champaign               | 610        |
| University of California-Los Angeles                     | 384        | Massachusetts Institute of Technology                    | 581        |
| University of California-San Diego                       | 333        | Brigham Young University main campus                     | 578        |
| Harvard University                                       | 316        | Pennsylvania State University main campus                | 567        |
| University of Illinois at Urbana-Champaign               | 312        | Harvard University                                       | 563        |
| University of Texas at Austin                            | 312        | University of Michigan at Ann Arbor                      | 512        |
| Massachusetts Institute of Technology                    | 302        | University of Texas at Austin                            | 482        |
| University of California-Davis                           | 297        | University of Wisconsin-Madison                          | 435        |
| University of Wisconsin-Madison                          | 292        | University of California-Los Angeles                     | 426        |
| University of Florida                                    | 274        | Virginia Polytechnic Institute and State University      | 403        |
| Pennsylvania State University main campus                | 269        | University of California-Davis                           | 390        |
| Stanford University                                      | 268        | University of Florida                                    | 375        |
| Brown University   | 241        | University of California-San Diego                       | 372        |
| University of Maryland at College Park                   | 241        | Purdue University main campus                            | 371        |
| Texas A&M University Main Campus                         | 233        | Texas A&M University main campus                         | 364        |
| Rutgers the State University of New Jersey New Brunswick | 230        | Stanford University                                      | 348        |
| University of Pennsylvania                               | 225        | Princeton University                                     | 323        |
| Yale University  | 225        | Rutgers the State University of New Jersey New Brunswick | 309        |
| University of Virginia main campus                       | 221        | University of Washington-Seattle                         | 309        |
| Michigan State University                                | 218        | University of Minnesota-Twin Cities                      | 303        |
| Princeton University                                     | 217        | University of Virginia main campus                       | 297        |
| Duke University  | 214        | Georgia Institute of Technology main campus              | 290        |
| University of Washington-Seattle                         | 201        | University of Maryland at College Park                   | 286        |
| University of California-Santa Cruz                      | 199        | University of Colorado at Boulder                        | 285        |
| Boston University  | 189        | Michigan State University                                | 280        |
| University of Arizona                                    | 188        | University of Arizona                                    | 277        |
| University of Colorado at Boulder                        | 185        | Yale University  | 277        |
| University of North Carolina at Chapel Hill              | 185        | Duke University  | 271        |
| University of Minnesota-Twin Cities                      | 182        | Ohio State University main campus                        | 265        |
| University of California-Santa Barbara                   | 180        | California Institute of Technology                       | 258        |
| University of Chicago                                    | 180        | Brown University   | 256        |
| Wellesley College  | 179        | North Carolina State University at Raleigh               | 240        |
| Indiana University at Bloomington                        | 175        | University of Chicago                                    | 238        |
| Smith College  | 174        | University of Pennsylvania                               | 238        |
| Northwestern University                                  | 171        | University of California-Santa Cruz                      | 237        |
| Virginia Polytechnic Institute and State University      | 171        | Carnegie Mellon University                               | 230        |
| Purdue University main campus                            | 170        | Johns Hopkins University                                 | 229        |
| College of William and Mary                              | 168        | Northwestern University                                  | 216        |
| University of California-Irvine                          | 167        | Rensselaer Polytechnic Institute                         | 216        |
| Ohio State University main campus                        | 166        | Iowa State University                                    | 213        |
| Columbia University in the City of New York              | 159        | University of California-Santa Barbara                   | 212        |
| Dartmouth College  | 151        | SUNY at Buffalo  | 199        |
| University of Massachusetts at Amherst                   | 150        | Columbia University in the City of New York              | 198        |
| New York University                                      | 148        | University of North Carolina at Chapel Hill              | 198        |
| Oberlin College  | 147        | University of Utah                                       | 195        |
| Wesleyan University                                      | 146        | Rice University  | 191        |
| University of Puerto Rico Rio Piedras Campus             | 144        | University of Rochester                                  | 190        |
| SUNY at Binghamton                                       | 136        | University of California-Irvine                          | 186        |
| Other U.S.   | 20,962     | Other U.S.   | 26,299     |

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-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.<br>citizens and<br>permanent<br>residents | White | Asian <sup>a</sup> | Black | Hispanic | American<br>Indian/ Alaska<br>Native | Other/<br>unknown race/<br>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-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2001–2005  
(Percent distribution)

| Sex 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) <sup>a</sup>                | 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 and dissertation grant       | 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         |
| Female (number)                                     | 34,395  | 32,081  | 1,026                 | 9,983               | 501               | 793                                    | 747                        | 2,678             | 9,728      | 6,625           | 2,314       |
| 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                               | 23.9    | 24.9    | 18.7                  | 9.1                 | 25.1              | 8.4                                    | 9.8                        | 5.0               | 45.2       | 31.5            | 10.3        |
| Loans   | 8.9     | 9.4     | 4.7                   | 1.7                 | 4.4               | 1.3                                    | 1.1                        | 1.1               | 21.4       | 9.9             | 1.6         |
| Savings   | 1.6     | 1.7     | 1.6                   | 0.5                 | 3.0               | 0.9                                    | 0.8                        | 0.2               | 2.7        | 2.5             | 1.2         |
| Other earnings in graduate school                   | 5.6     | 5.7     | 6.2                   | 2.4                 | 10.4              | 4.4                                    | 2.1                        | 0.9               | 7.6        | 10.1            | 3.9         |
| Other family earnings or savings                    | 7.8     | 8.1     | 6.2                   | 4.6                 | 7.4               | 1.9                                    | 5.8                        | 2.8               | 13.5       | 9.0             | 3.5         |
| Teaching assistantship                              | 14.4    | 15.0    | 8.6                   | 9.0                 | 8.0               | 12.5                                   | 51.1                       | 19.3              | 13.9       | 21.8            | 4.9         |
| Research assistantship, traineeship, and internship | 23.9    | 23.1    | 38.8                  | 28.6                | 29.5              | 34.8                                   | 11.5                       | 45.9              | 17.0       | 11.3            | 35.8        |
| Research assistantship                              | 20.5    | 19.5    | 37.8                  | 22.7                | 28.5              | 33.3                                   | 10.0                       | 44.3              | 12.9       | 10.0            | 34.7        |
| Traineeship   | 2.7     | 2.8     | 0.5                   | 5.6                 | 0.2               | 1.1                                    | 1.1                        | 1.5               | 2.2        | 0.9             | 0.9         |
| Internship or residency                             | 0.3     | 0.4     | 0.2                   | 0.2                 | 0.6               | 0.1                                    | 0.3                        | 0.1               | 0.8        | 0.1             | 0.1         |
| Other assistantship                                 | 0.4     | 0.4     | 0.3                   | 0.1                 | 0.2               | 0.3                                    | 0.1                        | 0.0               | 1.1        | 0.3             | 0.1         |
| Fellowship/scholarship and dissertation grant       | 30.4    | 29.8    | 24.4                  | 47.2                | 21.4              | 40.2                                   | 21.2                       | 24.3              | 15.4       | 28.2            | 38.3        |
| Fellowship/scholarship                              | 23.7    | 23.0    | 19.0                  | 31.9                | 20.2              | 33.9                                   | 19.1                       | 19.7              | 12.9       | 25.9            | 33.6        |

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

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2001–2005  
(Percent distribution)

| Sex 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 |
|---|---------|---------|-----------------------|---------------------|-------------------|--|----------------------------|-------------------|------------|-----------------|-------------|
| Grant/stipend                                       | 6.6     | 6.8     | 5.4                   | 15.4                | 1.2               | 6.3                                    | 2.0                        | 4.6               | 2.5        | 2.3             | 4.7         |
| Employer reimbursement or assistance                | 2.0     | 1.8     | 5.7                   | 1.6                 | 6.8               | 1.1                                    | 2.4                        | 1.0               | 1.1        | 2.2             | 5.9         |
| Foreign   | 0.2     | 0.2     | 0.2                   | 0.1                 | 0.4               | 0.1                                    | 0.3                        | 0.0               | 0.1        | 0.3             | 0.3         |
| Other   | 0.1     | 0.1     | 0.1                   | 0.1                 | 0.0               | 0.1                                    | 0.1                        | 0.1               | 0.2        | 0.1             | 0.0         |
| Not reported  | 5.1     | 5.1     | 3.6                   | 4.1                 | 8.8               | 2.6                                    | 3.6                        | 4.3               | 7.2        | 4.5             | 4.5         |
| Male (number)                                       | 44,933  | 35,982  | 1,656                 | 11,028              | 1,709             | 1,382                                  | 1,791                      | 6,989             | 4,576      | 6,851           | 8,951       |
| 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                               | 16.5    | 17.6    | 19.3                  | 8.0                 | 20.4              | 10.9                                   | 9.2                        | 5.8               | 41.7       | 31.3            | 12.0        |
| Loans   | 4.8     | 5.6     | 3.0                   | 1.9                 | 2.9               | 1.6                                    | 1.2                        | 1.0               | 20.2       | 9.8             | 1.6         |
| Savings   | 1.8     | 1.7     | 2.3                   | 0.6                 | 3.4               | 1.8                                    | 0.7                        | 0.5               | 3.0        | 3.5             | 2.0         |
| Other earnings in graduate school                   | 5.7     | 5.7     | 8.2                   | 2.2                 | 10.1              | 4.6                                    | 4.0                        | 1.6               | 9.9        | 11.7            | 5.7         |
| Other family earnings or savings                    | 4.2     | 4.5     | 5.7                   | 3.3                 | 4.0               | 3.0                                    | 3.2                        | 2.7               | 8.5        | 6.3             | 2.7         |
| Teaching assistantship                              | 15.0    | 17.2    | 6.8                   | 10.3                | 8.0               | 13.6                                   | 51.0                       | 19.0              | 16.3       | 23.7            | 6.3         |
| Research assistantship, traineeship, and internship | 31.1    | 28.2    | 42.3                  | 29.0                | 37.9              | 40.2                                   | 10.7                       | 48.9              | 16.1       | 10.1            | 43.0        |
| Research assistantship                              | 28.8    | 25.5    | 41.4                  | 23.5                | 36.7              | 39.4                                   | 9.9                        | 47.7              | 12.5       | 9.2             | 42.1        |
| Traineeship   | 1.9     | 2.2     | 0.4                   | 5.1                 | 0.7               | 0.6                                    | 0.6                        | 0.9               | 1.9        | 0.6             | 0.6         |
| Internship or residency                             | 0.2     | 0.3     | 0.1                   | 0.3                 | 0.2               | 0.2                                    | 0.0                        | 0.2               | 0.7        | 0.1             | 0.2         |
| Other assistantship                                 | 0.2     | 0.3     | 0.4                   | 0.1                 | 0.2               | 0.1                                    | 0.2                        | 0.1               | 1.0        | 0.2             | 0.1         |
| Fellowship/scholarship and dissertation grant       | 27.9    | 29.0    | 18.5                  | 46.3                | 18.7              | 25.4                                   | 22.3                       | 20.0              | 16.0       | 26.5            | 23.8        |
| Fellowship/scholarship                              | 21.8    | 22.3    | 13.9                  | 32.2                | 14.7              | 19.7                                   | 20.2                       | 15.7              | 13.3       | 24.2            | 19.8        |
| Grant/stipend                                       | 6.1     | 6.6     | 4.5                   | 14.1                | 4.0               | 5.7                                    | 2.1                        | 4.3               | 2.7        | 2.4             | 4.0         |
| Employer reimbursement or assistance                | 4.2     | 2.9     | 6.9                   | 1.8                 | 9.0               | 5.1                                    | 3.2                        | 1.9               | 1.8        | 3.2             | 9.6         |
| Foreign   | 0.2     | 0.1     | 0.2                   | 0.1                 | 0.2               | 0.3                                    | 0.1                        | 0.1               | 0.1        | 0.2             | 0.3         |
| Other   | 0.1     | 0.1     | 0.1                   | 0.1                 | 0.2               | 0.4                                    | 0.1                        | 0.0               | 0.2        | 0.1             | 0.1         |
| Not reported  | 5.0     | 5.0     | 5.9                   | 4.4                 | 5.7               | 4.1                                    | 3.5                        | 4.3               | 7.8        | 4.8             | 4.9         |

<sup>a</sup> All recipients include those with unknown gender. The data for all recipients, therefore, will not equal the sum of female and male.

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

TABLE F-19. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&amp;E doctorate recipients with definite postgraduate plans, by sex: 2005

(Percent distribution)

| Location and type of postgraduate activity | Both sexes |       |       |
|--|------------|-------|-------|
|  | Female     | Male  |       |
| All recipients (number)                    | 11,161     | 4,803 | 6,356 |
| All locations and types                    | 100.0      | 100.0 | 100.0 |
| United States                              | 96.3       | 97.0  | 95.8  |
| Academic employment                        | 22.8       | 25.0  | 21.2  |
| Industry employment                        | 14.0       | 9.2   | 17.7  |
| Postdoctoral study                         | 45.7       | 48.4  | 43.6  |
| Other <sup>a</sup>                         | 13.7       | 14.4  | 13.2  |
| Abroad                                     | 3.7        | 3.0   | 4.2   |
| Location unknown                           | 0.0        | 0.0   | 0.0   |

<sup>a</sup> Includes elementary/secondary schools, government, nonprofit, and other or unknown.

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?* Total includes unknown sex not shown separately.

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

TABLE F-20. S&E doctoral degrees awarded by leading institutions, by sex: 2001–2005

| Academic institution                                     | Doctoral degrees | Academic institution                                     | Doctoral degrees |
|--|------------------|--|------------------|
| Female   |                  | Male   |                  |
| All institutions   | 48,355           | All institutions   | 81,112           |
| Top 50 institutions                                      | 24,152           | Top 50 institutions                                      | 45,773           |
| University of California-Berkeley                        | 970              | University of California-Berkeley                        | 1,838            |
| University of Michigan at Ann Arbor                      | 739              | Massachusetts Institute of Technology                    | 1,689            |
| University of Wisconsin-Madison                          | 714              | Stanford University                                      | 1,642            |
| University of California-Los Angeles                     | 700              | University of Illinois at Urbana-Champaign               | 1,594            |
| University of Minnesota-Twin Cities                      | 700              | University of Michigan at Ann Arbor                      | 1,492            |
| University of Texas at Austin                            | 660              | University of Wisconsin-Madison                          | 1,441            |
| Stanford University                                      | 658              | University of Texas at Austin                            | 1,370            |
| University of California-Davis                           | 640              | University of California-Los Angeles                     | 1,342            |
| University of Washington-Seattle                         | 624              | Texas A&M University main campus                         | 1,340            |
| Ohio State University main campus                        | 620              | Pennsylvania State University main campus                | 1,322            |
| Harvard University                                       | 618              | Purdue University main campus                            | 1,273            |
| Cornell University all campuses                          | 611              | Ohio State University main campus                        | 1,230            |
| University of Illinois at Urbana-Champaign               | 611              | University of Florida                                    | 1,169            |
| Massachusetts Institute of Technology                    | 588              | University of Minnesota-Twin Cities                      | 1,148            |
| University of Florida                                    | 588              | Cornell University all campuses                          | 1,099            |
| Pennsylvania State University main campus                | 586              | University of Washington-Seattle                         | 1,086            |
| Michigan State University                                | 569              | University of Maryland at College Park                   | 1,057            |
| University of North Carolina at Chapel Hill              | 542              | Georgia Institute of Technology main campus              | 1,056            |
| University of Maryland at College Park                   | 528              | Harvard University                                       | 980              |
| Texas A&M University main campus                         | 492              | North Carolina State University at Raleigh               | 899              |
| Purdue University main campus                            | 491              | University of California-Davis                           | 880              |
| University of Arizona                                    | 474              | University of Southern California                        | 851              |
| University of Pennsylvania                               | 472              | Michigan State University                                | 829              |
| Rutgers the State University of New Jersey New Brunswick | 469              | University of Arizona                                    | 799              |
| Johns Hopkins University                                 | 462              | Virginia Polytechnic Institute and State University      | 784              |
| Yale University  | 455              | University of California-San Diego                       | 776              |
| University of Georgia                                    | 441              | Columbia University in the City of New York              | 766              |
| Columbia University in the City of New York              | 438              | University of Chicago                                    | 736              |
| North Carolina State University at Raleigh               | 437              | University of Pennsylvania                               | 709              |
| University of Southern California                        | 436              | Johns Hopkins University                                 | 706              |
| University of California-San Diego                       | 415              | Northwestern University                                  | 705              |
| Northwestern University                                  | 399              | Iowa State University                                    | 685              |
| CUNY Graduate School and University Center               | 391              | University of Colorado at Boulder                        | 678              |
| University of Colorado at Boulder                        | 388              | Princeton University                                     | 663              |
| New York University                                      | 381              | Rutgers the State University of New Jersey New Brunswick | 646              |
| University of Pittsburgh main campus                     | 371              | Carnegie Mellon University                               | 626              |
| University of Chicago                                    | 349              | University of North Carolina at Chapel Hill              | 613              |
| Duke University  | 347              | Yale University  | 606              |
| University of Connecticut                                | 340              | California Institute of Technology                       | 596              |
| Boston University  | 335              | University of California-Santa Barbara                   | 593              |
| University of Virginia main campus                       | 332              | University of Georgia                                    | 570              |
| Indiana University at Bloomington                        | 324              | SUNY at Stony Brook all campuses                         | 566              |
| Georgia Institute of Technology main campus              | 318              | University of Pittsburgh main campus                     | 564              |
| SUNY at Stony Brook all campuses                         | 317              | SUNY at Buffalo  | 556              |
| University of Massachusetts at Amherst                   | 314              | Arizona State University main campus                     | 552              |
| Arizona State University main campus                     | 313              | Duke University  | 552              |
| University of California-Santa Barbara                   | 308              | University of Virginia main campus                       | 542              |
| University of Kansas main campus                         | 297              | Boston University  | 531              |
| Virginia Polytechnic Institute and State University      | 293              | University of Utah                                       | 524              |
| Wayne State University                                   | 287              | Indiana University at Bloomington                        | 502              |
| Other institutions                                       | 24,203           | Other institutions                                       | 35,339           |

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-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2005  
(Percent distribution)

| Major field and sex                    | All definite plans | United States  |                     |                     |                    |       | Abroad | Location unknown |
|--|--------------------|----------------|---------------------|---------------------|--------------------|-------|--------|------------------|
|  |                    | All U.S. plans | Academic employment | Industry employment | Postdoctoral study | Other |        |                  |
| All fields <sup>a</sup>                | 100.0              | 97.0           | 37.2                | 11.1                | 30.0               | 18.7  | 3.0    | 0.0              |
| S&E                                    | 100.0              | 96.3           | 22.9                | 15.4                | 45.7               | 12.3  | 3.7    | 0.0              |
| Science                                | 100.0              | 96.2           | 24.2                | 11.5                | 48.8               | 11.7  | 3.8    | 0.0              |
| Agricultural sciences                  | 100.0              | 97.2           | 23.4                | 18.4                | 31.6               | 23.7  | 2.8    | 0.0              |
| Biological sciences                    | 100.0              | 96.9           | 8.5                 | 5.9                 | 76.4               | 6.0   | 3.0    | 0.0              |
| Computer sciences                      | 100.0              | 94.7           | 39.7                | 26.8                | 19.4               | 8.8   | 5.3    | 0.0              |
| Earth, atmospheric, and ocean sciences | 100.0              | 94.2           | 18.1                | 12.3                | 50.3               | 13.5  | 5.5    | 0.3              |
| Mathematics and statistics             | 100.0              | 93.5           | 39.3                | 10.9                | 36.1               | 7.2   | 6.5    | 0.0              |
| Physical sciences                      | 100.0              | 94.7           | 9.8                 | 24.4                | 54.5               | 5.9   | 5.3    | 0.0              |
| Astronomy                              | 100.0              | 92.7           | 9.4                 | 8.3                 | 69.8               | 5.2   | 7.3    | 0.0              |
| Chemistry                              | 100.0              | 96.3           | 9.3                 | 29.2                | 53.3               | 4.5   | 3.7    | 0.0              |
| Physics                                | 100.0              | 92.0           | 11.0                | 17.9                | 54.0               | 9.1   | 8.0    | 0.0              |
| Other                                  | 100.0              | 75.0           | 25.0                | 0.0                 | 25.0               | 25.0  | 25.0   | 0.0              |
| Psychology                             | 100.0              | 98.3           | 24.6                | 10.8                | 45.7               | 17.2  | 1.6    | 0.1              |
| Social sciences                        | 100.0              | 94.6           | 56.6                | 7.4                 | 11.9               | 18.6  | 5.4    | 0.0              |
| Engineering                            | 100.0              | 96.9           | 15.1                | 39.6                | 26.4               | 15.8  | 3.1    | 0.0              |
| Aerospace engineering                  | 100.0              | 95.5           | 12.1                | 33.3                | 18.2               | 31.8  | 4.5    | 0.0              |
| Chemical engineering                   | 100.0              | 95.8           | 7.1                 | 52.5                | 34.2               | 2.1   | 4.2    | 0.0              |
| Civil engineering                      | 100.0              | 96.7           | 21.3                | 31.7                | 23.5               | 20.2  | 3.3    | 0.0              |
| Electrical engineering                 | 100.0              | 98.2           | 15.9                | 52.0                | 14.1               | 16.2  | 1.8    | 0.0              |
| Industrial engineering                 | 100.0              | 98.0           | 26.5                | 51.0                | 4.1                | 16.3  | 2.0    | 0.0              |
| Materials engineering                  | 100.0              | 95.0           | 5.0                 | 36.4                | 40.5               | 13.2  | 5.0    | 0.0              |
| Mechanical engineering                 | 100.0              | 96.8           | 19.4                | 33.3                | 25.0               | 19.0  | 3.2    | 0.0              |
| Other                                  | 100.0              | 97.0           | 16.4                | 23.4                | 38.5               | 18.7  | 3.0    | 0.0              |
| Non-S&E                                | 100.0              | 98.0           | 56.8                | 5.3                 | 8.3                | 27.5  | 2.0    | 0.0              |
| Female                                 | 100.0              | 97.7           | 40.5                | 7.9                 | 28.5               | 20.8  | 2.3    | 0.0              |
| S&E                                    | 100.0              | 97.0           | 25.0                | 10.7                | 48.4               | 12.8  | 3.0    | 0.0              |
| Science                                | 100.0              | 96.9           | 25.7                | 9.2                 | 49.3               | 12.7  | 3.1    | 0.0              |
| Agricultural sciences                  | 100.0              | 97.9           | 22.0                | 11.3                | 36.9               | 27.7  | 2.1    | 0.0              |
| Biological sciences                    | 100.0              | 96.9           | 9.9                 | 6.3                 | 74.6               | 6.0   | 3.1    | 0.0              |
| Computer sciences                      | 100.0              | 97.1           | 47.1                | 15.7                | 21.4               | 12.9  | 2.9    | 0.0              |
| Earth, atmospheric, and ocean sciences | 100.0              | 93.9           | 16.7                | 9.6                 | 57.0               | 10.5  | 6.1    | 0.0              |
| Mathematics and statistics             | 100.0              | 98.2           | 57.5                | 8.0                 | 24.8               | 8.0   | 1.8    | 0.0              |
| Physical sciences                      | 100.0              | 95.1           | 11.5                | 25.6                | 51.8               | 6.1   | 4.9    | 0.0              |
| Astronomy                              | 100.0              | 93.3           | 10.0                | 10.0                | 66.7               | 6.7   | 6.7    | 0.0              |
| Chemistry                              | 100.0              | 96.9           | 11.2                | 30.1                | 49.1               | 6.5   | 3.1    | 0.0              |
| Physics                                | 100.0              | 88.5           | 13.5                | 7.7                 | 63.5               | 3.8   | 11.5   | 0.0              |
| Other                                  | 100.0              | 33.3           | 33.3                | 0.0                 | 0.0                | 0.0   | 66.7   | 0.0              |
| Psychology                             | 100.0              | 98.6           | 23.7                | 9.7                 | 48.1               | 17.2  | 1.3    | 0.1              |
| Social sciences                        | 100.0              | 95.2           | 57.9                | 4.9                 | 13.7               | 18.8  | 4.8    | 0.0              |
| Engineering                            | 100.0              | 97.7           | 15.9                | 33.1                | 35.4               | 13.2  | 2.3    | 0.0              |
| Aerospace engineering                  | 100.0              | 100.0          | 14.3                | 28.6                | 0.0                | 57.1  | 0.0    | 0.0              |
| Chemical engineering                   | 100.0              | 100.0          | 8.5                 | 35.6                | 52.5               | 3.4   | 0.0    | 0.0              |
| Civil engineering                      | 100.0              | 94.2           | 19.2                | 23.1                | 36.5               | 15.4  | 5.8    | 0.0              |
| Electrical engineering                 | 100.0              | 100.0          | 16.0                | 48.0                | 20.0               | 16.0  | 0.0    | 0.0              |
| Industrial engineering                 | 100.0              | 100.0          | 0.0                 | 90.0                | 0.0                | 10.0  | 0.0    | 0.0              |
| Materials engineering                  | 100.0              | 96.8           | 6.5                 | 25.8                | 51.6               | 12.9  | 3.2    | 0.0              |
| Mechanical engineering                 | 100.0              | 100.0          | 33.3                | 33.3                | 22.2               | 11.1  | 0.0    | 0.0              |
| Other                                  | 100.0              | 95.5           | 19.7                | 22.7                | 37.9               | 15.2  | 4.5    | 0.0              |
| Non-S&E                                | 100.0              | 98.4           | 55.8                | 5.1                 | 8.9                | 28.7  | 1.5    | 0.0              |

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2005  
(Percent distribution)

| Major field and sex                    | All definite plans | United States  |                     |                     |                    |       | Abroad | Location unknown |
|--|--------------------|----------------|---------------------|---------------------|--------------------|-------|--------|------------------|
|  |                    | All U.S. plans | Academic employment | Industry employment | Postdoctoral study | Other |        |                  |
| Male                                   | 100.0              | 96.3           | 33.8                | 14.5                | 31.4               | 16.6  | 3.7    | 0.0              |
| S&E                                    | 100.0              | 95.8           | 21.3                | 18.9                | 43.6               | 11.9  | 4.2    | 0.0              |
| Science                                | 100.0              | 95.5           | 22.9                | 13.5                | 48.4               | 10.8  | 4.4    | 0.1              |
| Agricultural sciences                  | 100.0              | 96.7           | 24.4                | 23.0                | 28.2               | 21.1  | 3.3    | 0.0              |
| Biological sciences                    | 100.0              | 97.0           | 7.3                 | 5.6                 | 78.1               | 6.0   | 3.0    | 0.1              |
| Computer sciences                      | 100.0              | 94.1           | 37.8                | 29.6                | 18.9               | 7.8   | 5.9    | 0.0              |
| Earth, atmospheric, and ocean sciences | 100.0              | 94.3           | 18.9                | 13.7                | 46.7               | 15.1  | 5.2    | 0.5              |
| Mathematics and statistics             | 100.0              | 91.7           | 32.2                | 12.1                | 40.5               | 6.9   | 8.3    | 0.0              |
| Physical sciences                      | 100.0              | 94.6           | 9.1                 | 24.0                | 55.6               | 5.9   | 5.4    | 0.0              |
| Astronomy                              | 100.0              | 92.4           | 9.1                 | 7.6                 | 71.2               | 4.5   | 7.6    | 0.0              |
| Chemistry                              | 100.0              | 95.9           | 8.2                 | 28.6                | 55.7               | 3.4   | 4.1    | 0.0              |
| Physics                                | 100.0              | 92.5           | 10.6                | 19.6                | 52.5               | 9.9   | 7.5    | 0.0              |
| Other                                  | 100.0              | 100.0          | 20.0                | 0.0                 | 40.0               | 40.0  | 0.0    | 0.0              |
| Psychology                             | 100.0              | 97.8           | 26.6                | 13.3                | 40.8               | 17.2  | 2.0    | 0.2              |
| Social sciences                        | 100.0              | 94.0           | 55.4                | 9.9                 | 10.2               | 18.5  | 6.0    | 0.0              |
| Engineering                            | 100.0              | 96.7           | 14.9                | 41.1                | 24.2               | 16.4  | 3.3    | 0.0              |
| Aerospace engineering                  | 100.0              | 94.9           | 11.9                | 33.9                | 20.3               | 28.8  | 5.1    | 0.0              |
| Chemical engineering                   | 100.0              | 94.5           | 6.6                 | 58.0                | 28.2               | 1.7   | 5.5    | 0.0              |
| Civil engineering                      | 100.0              | 97.7           | 22.1                | 35.1                | 18.3               | 22.1  | 2.3    | 0.0              |
| Electrical engineering                 | 100.0              | 98.2           | 16.0                | 52.7                | 13.3               | 16.3  | 1.8    | 0.0              |
| Industrial engineering                 | 100.0              | 97.4           | 33.3                | 41.0                | 5.1                | 17.9  | 2.6    | 0.0              |
| Materials engineering                  | 100.0              | 94.4           | 4.4                 | 40.0                | 36.7               | 13.3  | 5.6    | 0.0              |
| Mechanical engineering                 | 100.0              | 96.3           | 17.5                | 33.3                | 25.4               | 20.1  | 3.7    | 0.0              |
| Other                                  | 100.0              | 97.4           | 15.5                | 23.6                | 38.6               | 19.7  | 2.6    | 0.0              |
| Non-S&E                                | 100.0              | 97.3           | 58.3                | 5.7                 | 7.5                | 25.8  | 2.7    | 0.0              |

S&E = Science and engineering.

<sup>a</sup> Includes those with unknown gender.

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 G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

| Field and sex                               | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| All fields                                  | Number |        |        |        |        |        |        |        |
| S&E   | 27,876 | 28,980 | 30,224 | 30,194 | 31,908 | 33,546 | 33,937 | 34,584 |
| Sciences                                    | 25,023 | 25,784 | 26,911 | 27,028 | 28,340 | 29,726 | 29,972 | 30,421 |
| Agricultural sciences                       | 695    | 750    | 822    | 835    | 945    | 1052   | 942    | 989    |
| Biological sciences                         | 15,761 | 16,097 | 16,734 | 17,029 | 17,648 | 18,615 | 18,696 | 19,003 |
| Anatomy                                     | 454    | 497    | 428    | 413    | 423    | 471    | 477    | 417    |
| Biochemistry                                | 2,532  | 2,485  | 2,469  | 2,558  | 2,752  | 2,621  | 2,510  | 2,548  |
| Biology                                     | 1,813  | 1,892  | 1,937  | 1,962  | 2,047  | 2,080  | 1,962  | 2,011  |
| Biometry/epidemiology                       | 175    | 181    | 125    | 152    | 231    | 244    | 238    | 280    |
| Biophysics                                  | 239    | 266    | 164    | 187    | 233    | 195    | 218    | 191    |
| Botany                                      | 555    | 559    | 518    | 553    | 561    | 547    | 560    | 576    |
| Cell/molecular biology                      | 2,204  | 2,237  | 2,241  | 2,139  | 2,292  | 2,340  | 2,327  | 2,454  |
| Ecology                                     | 115    | 123    | 152    | 161    | 186    | 189    | 170    | 187    |
| Entomology/parasitology                     | 181    | 178    | 197    | 223    | 234    | 258    | 292    | 284    |
| Genetics                                    | 732    | 796    | 795    | 883    | 926    | 1037   | 941    | 1031   |
| Microbiology, immunology, and virology      | 2,089  | 2,158  | 2,253  | 2,187  | 2,438  | 2,340  | 2,146  | 2,270  |
| Nutrition                                   | 234    | 238    | 224    | 245    | 225    | 243    | 274    | 299    |
| Pathology                                   | 1,332  | 1,321  | 1,757  | 1,803  | 1,837  | 1,944  | 1,815  | 1,606  |
| Pharmacology                                | 1,470  | 1,512  | 1,461  | 1,392  | 1,386  | 1,520  | 1,552  | 1,536  |
| Physiology                                  | 1,138  | 1,132  | 1,140  | 1,193  | 1,165  | 1,249  | 1,279  | 1,297  |
| Zoology                                     | 135    | 138    | 104    | 88     | 92     | 82     | 111    | 142    |
| Other                                       | 363    | 384    | 769    | 890    | 620    | 1255   | 1,824  | 1,874  |
| Computer sciences                           | 374    | 334    | 344    | 338    | 361    | 360    | 384    | 406    |
| Earth, atmospheric, and ocean sciences      | 902    | 925    | 1155   | 1,036  | 1,114  | 1,166  | 1,253  | 1,364  |
| Atmospheric                                 | 85     | 107    | 94     | 87     | 79     | 94     | 119    | 129    |
| Earth                                       | 468    | 479    | 514    | 471    | 444    | 463    | 507    | 517    |
| Ocean                                       | 249    | 235    | 246    | 218    | 270    | 249    | 299    | 345    |
| Other                                       | 100    | 104    | 301    | 260    | 321    | 360    | 328    | 373    |
| Mathematics and statistics                  | 279    | 351    | 385    | 353    | 393    | 447    | 466    | 500    |
| Mathematics/applied mathematics             | 255    | 321    | 357    | 329    | 365    | 407    | 420    | 443    |
| Statistics                                  | 24     | 30     | 28     | 24     | 28     | 40     | 46     | 57     |
| Physical sciences                           | 6,004  | 6,157  | 6,270  | 6,218  | 6,610  | 6,724  | 6,956  | 6,896  |
| Astronomy                                   | 360    | 375    | 315    | 311    | 330    | 319    | 367    | 374    |
| Chemistry                                   | 3,741  | 3,836  | 3,877  | 3,861  | 3,982  | 4,042  | 4,235  | 4,115  |
| Physics                                     | 1,863  | 1,862  | 1,948  | 1,910  | 2,154  | 2,202  | 2,138  | 2,208  |
| Other                                       | 40     | 84     | 130    | 136    | 144    | 161    | 216    | 199    |
| Psychology                                  | 617    | 716    | 730    | 809    | 815    | 960    | 910    | 892    |
| Clinical                                    | 51     | 70     | 73     | 81     | 68     | 72     | 67     | 64     |
| General                                     | 393    | 412    | 411    | 498    | 532    | 634    | 606    | 587    |
| Nonclinical                                 | 173    | 234    | 246    | 230    | 215    | 254    | 237    | 241    |
| Social sciences                             | 391    | 454    | 471    | 410    | 454    | 402    | 365    | 371    |
| Agricultural economics                      | 38     | 43     | 41     | 35     | 21     | 25     | 34     | 40     |
| Anthropology (cultural and social)          | 62     | 87     | 73     | 56     | 66     | 57     | 54     | 65     |
| Economics                                   | 29     | 31     | 32     | 23     | 29     | 36     | 20     | 13     |
| Geography                                   | 18     | 30     | 34     | 36     | 30     | 29     | 31     | 42     |
| History and philosophy of science           | 23     | 10     | 14     | 9      | 13     | 14     | 6      | 9      |
| Linguistics                                 | 18     | 15     | 19     | 17     | 22     | 29     | 29     | 24     |
| Political science and public administration | 64     | 70     | 50     | 52     | 61     | 51     | 44     | 42     |
| Sociology                                   | 79     | 104    | 102    | 92     | 109    | 76     | 77     | 63     |
| Other                                       | 60     | 64     | 106    | 90     | 103    | 85     | 70     | 73     |
| Engineering                                 | 2,853  | 3,196  | 3,313  | 3,166  | 3,568  | 3,820  | 3,965  | 4,163  |
| Aerospace                                   | 133    | 128    | 111    | 128    | 140    | 141    | 141    | 153    |
| Agricultural                                | 56     | 62     | 56     | 60     | 66     | 88     | 79     | 89     |
| Biomedical                                  | 180    | 242    | 220    | 262    | 284    | 388    | 425    | 477    |
| Chemical                                    | 613    | 671    | 703    | 575    | 743    | 672    | 688    | 686    |
| Civil                                       | 225    | 299    | 295    | 280    | 358    | 319    | 332    | 400    |
| Electrical                                  | 488    | 548    | 525    | 435    | 612    | 646    | 653    | 687    |
| Engineering science/physics                 | 110    | 122    | 163    | 162    | 169    | 180    | 180    | 168    |
| Industrial/manufacturing                    | 30     | 27     | 48     | 20     | 42     | 45     | 50     | 51     |

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

| Field and sex                               | 1998  | 1999  | 2000  | 2001  | 2002   | 2003   | 2004   | 2005   |
|---|-------|-------|-------|-------|--------|--------|--------|--------|
| Mechanical                                  | 434   | 476   | 480   | 501   | 441    | 543    | 514    | 562    |
| Metallurgical/materials                     | 404   | 421   | 507   | 479   | 507    | 539    | 567    | 578    |
| Mining                                      | 10    | 6     | 8     | 14    | 10     | 12     | 9      | 8      |
| Nuclear                                     | 19    | 30    | 40    | 78    | 28     | 52     | 67     | 41     |
| Petroleum                                   | 14    | 19    | 20    | 17    | 15     | 17     | 14     | 13     |
| Other                                       | 137   | 145   | 137   | 155   | 153    | 178    | 246    | 250    |
| Female                                      |       |       |       |       |        |        |        |        |
| S&E   | 8,326 | 8,708 | 8,928 | 9,242 | 10,120 | 10,754 | 10,948 | 11,318 |
| Sciences                                    | 7,943 | 8,239 | 8,455 | 8,758 | 9,519  | 10,150 | 10,243 | 10,591 |
| Agricultural sciences                       | 189   | 205   | 239   | 252   | 312    | 363    | 322    | 328    |
| Biological sciences                         | 5,906 | 6,070 | 6,237 | 6,441 | 6,870  | 7,324  | 7,388  | 7,681  |
| Anatomy                                     | 175   | 191   | 146   | 150   | 181    | 195    | 212    | 184    |
| Biochemistry                                | 891   | 888   | 865   | 909   | 1018   | 987    | 922    | 914    |
| Biology                                     | 670   | 693   | 717   | 708   | 778    | 795    | 741    | 770    |
| Biometry/epidemiology                       | 87    | 98    | 72    | 84    | 104    | 130    | 127    | 145    |
| Biophysics                                  | 65    | 64    | 45    | 54    | 74     | 63     | 74     | 64     |
| Botany                                      | 154   | 170   | 155   | 174   | 205    | 206    | 207    | 228    |
| Cell/molecular biology                      | 858   | 857   | 878   | 843   | 885    | 920    | 897    | 967    |
| Ecology                                     | 37    | 37    | 47    | 54    | 65     | 66     | 57     | 72     |
| Entomology/parasitology                     | 48    | 47    | 53    | 57    | 60     | 67     | 86     | 86     |
| Genetics                                    | 317   | 310   | 307   | 359   | 381    | 432    | 388    | 437    |
| Microbiology, immunology, and virology      | 888   | 937   | 945   | 919   | 1058   | 1,001  | 862    | 973    |
| Nutrition                                   | 98    | 83    | 94    | 108   | 109    | 118    | 124    | 142    |
| Pathology                                   | 510   | 502   | 653   | 674   | 735    | 750    | 697    | 689    |
| Pharmacology                                | 558   | 590   | 556   | 550   | 545    | 604    | 625    | 598    |
| Physiology                                  | 368   | 405   | 413   | 443   | 411    | 461    | 505    | 517    |
| Zoology                                     | 52    | 63    | 29    | 25    | 31     | 27     | 47     | 60     |
| Other                                       | 130   | 135   | 262   | 330   | 230    | 502    | 817    | 835    |
| Computer sciences                           | 62    | 58    | 40    | 48    | 51     | 59     | 79     | 71     |
| Earth, atmospheric, ocean sciences          | 228   | 219   | 292   | 284   | 327    | 348    | 364    | 405    |
| Atmospheric                                 | 17    | 20    | 21    | 23    | 28     | 24     | 29     | 34     |
| Earth                                       | 117   | 109   | 114   | 121   | 126    | 136    | 138    | 146    |
| Ocean                                       | 77    | 70    | 81    | 78    | 96     | 85     | 110    | 118    |
| Other                                       | 17    | 20    | 76    | 62    | 77     | 103    | 87     | 107    |
| Mathematics and statistics                  | 38    | 73    | 51    | 64    | 76     | 86     | 105    | 108    |
| Mathematics/applied mathematics             | 34    | 66    | 44    | 57    | 66     | 75     | 93     | 90     |
| Statistics                                  | 4     | 7     | 7     | 7     | 10     | 11     | 12     | 18     |
| Physical sciences                           | 1,052 | 1,045 | 1,044 | 1,083 | 1,236  | 1,287  | 1,360  | 1,392  |
| Astronomy                                   | 70    | 58    | 49    | 55    | 66     | 70     | 69     | 79     |
| Chemistry                                   | 780   | 778   | 773   | 809   | 884    | 916    | 965    | 963    |
| Physics                                     | 195   | 199   | 208   | 199   | 266    | 279    | 294    | 319    |
| Other                                       | 7     | 10    | 14    | 20    | 20     | 22     | 32     | 31     |
| Psychology                                  | 316   | 373   | 357   | 413   | 426    | 482    | 460    | 435    |
| Clinical                                    | 33    | 54    | 51    | 60    | 49     | 46     | 45     | 41     |
| General                                     | 191   | 194   | 180   | 243   | 264    | 321    | 301    | 264    |
| Nonclinical                                 | 92    | 125   | 126   | 110   | 113    | 115    | 114    | 130    |
| Social sciences                             | 152   | 196   | 195   | 173   | 221    | 201    | 165    | 171    |
| Agricultural economics                      | 6     | 10    | 11    | 9     | 4      | 6      | 7      | 10     |
| Anthropology (cultural and social)          | 27    | 40    | 35    | 23    | 38     | 31     | 18     | 34     |
| Economics                                   | 5     | 5     | 8     | 6     | 11     | 13     | 8      | 3      |
| Geography                                   | 6     | 11    | 8     | 8     | 12     | 10     | 11     | 10     |
| History and philosophy of science           | 7     | 5     | 6     | 3     | 5      | 4      | 3      | 2      |
| Linguistics                                 | 12    | 9     | 7     | 10    | 12     | 13     | 12     | 14     |
| Political science and public administration | 23    | 22    | 15    | 14    | 17     | 20     | 25     | 20     |
| Sociology                                   | 42    | 63    | 53    | 52    | 64     | 53     | 49     | 42     |
| Other                                       | 24    | 31    | 52    | 48    | 58     | 51     | 32     | 36     |

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

| Field and sex                          | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Engineering                            | 383    | 469    | 473    | 484    | 601    | 604    | 705    | 727    |
| Aerospace                              | 8      | 15     | 10     | 14     | 17     | 15     | 16     | 24     |
| Agricultural                           | 6      | 8      | 7      | 6      | 10     | 16     | 14     | 20     |
| Biomedical                             | 39     | 64     | 66     | 73     | 81     | 107    | 128    | 135    |
| Chemical                               | 117    | 119    | 116    | 109    | 156    | 134    | 143    | 135    |
| Civil                                  | 35     | 55     | 55     | 50     | 68     | 59     | 82     | 78     |
| Electrical                             | 49     | 67     | 51     | 48     | 55     | 77     | 86     | 88     |
| Engineering science/physics            | 18     | 17     | 26     | 23     | 29     | 31     | 30     | 22     |
| Industrial/manufacturing               | 2      | 5      | 8      | 3      | 14     | 9      | 12     | 9      |
| Mechanical                             | 30     | 34     | 38     | 43     | 46     | 39     | 59     | 60     |
| Metallurgical/materials                | 65     | 69     | 76     | 79     | 86     | 69     | 90     | 106    |
| Mining                                 | 0      | 0      | 1      | 1      | 0      | 1      | 0      | 1      |
| Nuclear                                | 2      | 2      | 3      | 5      | 1      | 7      | 10     | 8      |
| Petroleum                              | 2      | 0      | 1      | 2      | 1      | 2      | 1      | 2      |
| Other                                  | 10     | 14     | 15     | 28     | 37     | 38     | 34     | 39     |
| Male                                   |        |        |        |        |        |        |        |        |
| S&E                                    | 19,550 | 20,272 | 21,296 | 20,952 | 21,788 | 22,792 | 22,989 | 23,266 |
| Sciences                               | 17,080 | 17,545 | 18,456 | 18,270 | 18,821 | 19,576 | 19,729 | 19,830 |
| Agricultural sciences                  | 506    | 545    | 583    | 583    | 633    | 689    | 620    | 661    |
| Biological sciences                    | 9,855  | 10,027 | 10,497 | 10,588 | 10,778 | 11,291 | 11,308 | 11,322 |
| Anatomy                                | 279    | 306    | 282    | 263    | 242    | 276    | 265    | 233    |
| Biochemistry                           | 1,641  | 1,597  | 1,604  | 1,649  | 1,734  | 1,634  | 1,588  | 1,634  |
| Biology                                | 1,143  | 1,199  | 1,220  | 1,254  | 1,269  | 1,285  | 1,221  | 1,241  |
| Biometry/epidemiology                  | 88     | 83     | 53     | 68     | 127    | 114    | 111    | 135    |
| Biophysics                             | 174    | 202    | 119    | 133    | 159    | 132    | 144    | 127    |
| Botany                                 | 401    | 389    | 363    | 379    | 356    | 341    | 353    | 348    |
| Cell/molecular biology                 | 1,346  | 1,380  | 1,363  | 1,296  | 1,407  | 1,420  | 1,430  | 1,487  |
| Ecology                                | 78     | 86     | 105    | 107    | 121    | 123    | 113    | 115    |
| Entomology/parasitology                | 133    | 131    | 144    | 166    | 174    | 191    | 206    | 198    |
| Genetics                               | 415    | 486    | 488    | 524    | 545    | 605    | 553    | 594    |
| Microbiology, immunology, and virology | 1,201  | 1,221  | 1,308  | 1,268  | 1,380  | 1,339  | 1,284  | 1,297  |
| Nutrition                              | 136    | 155    | 130    | 137    | 116    | 125    | 150    | 157    |
| Pathology                              | 822    | 819    | 1,104  | 1,129  | 1,102  | 1,194  | 1,118  | 917    |
| Pharmacology                           | 912    | 922    | 905    | 842    | 841    | 916    | 927    | 938    |
| Physiology                             | 770    | 727    | 727    | 750    | 754    | 788    | 774    | 780    |
| Zoology                                | 83     | 75     | 75     | 63     | 61     | 55     | 64     | 82     |
| Other                                  | 233    | 249    | 507    | 560    | 390    | 753    | 1,007  | 1,039  |
| Computer sciences                      | 312    | 276    | 304    | 290    | 310    | 301    | 305    | 335    |
| Earth, atmospheric, and ocean sciences | 674    | 706    | 863    | 752    | 787    | 818    | 889    | 959    |
| Atmospheric                            | 68     | 87     | 73     | 64     | 51     | 70     | 90     | 95     |
| Earth                                  | 351    | 370    | 400    | 350    | 318    | 327    | 369    | 371    |
| Ocean                                  | 172    | 165    | 165    | 140    | 174    | 164    | 189    | 227    |
| Other                                  | 83     | 84     | 225    | 198    | 244    | 257    | 241    | 266    |
| Mathematics and statistics             | 241    | 278    | 334    | 289    | 317    | 361    | 361    | 392    |
| Mathematics/applied mathematics        | 221    | 255    | 313    | 272    | 299    | 332    | 327    | 353    |
| Statistics                             | 20     | 23     | 21     | 17     | 18     | 29     | 34     | 39     |
| Physical sciences                      | 4,952  | 5,112  | 5,226  | 5,135  | 5,374  | 5,437  | 5,596  | 5,504  |
| Astronomy                              | 290    | 317    | 266    | 256    | 264    | 249    | 298    | 295    |
| Chemistry                              | 2,961  | 3,058  | 3,104  | 3,052  | 3,098  | 3,126  | 3,270  | 3,152  |
| Physics                                | 1,668  | 1,663  | 1,740  | 1,711  | 1,888  | 1,923  | 1,844  | 1,889  |
| Other                                  | 33     | 74     | 116    | 116    | 124    | 139    | 184    | 168    |
| Psychology                             | 301    | 343    | 373    | 396    | 389    | 478    | 450    | 457    |
| Clinical                               | 18     | 16     | 22     | 21     | 19     | 26     | 22     | 23     |
| General                                | 202    | 218    | 231    | 255    | 268    | 313    | 305    | 323    |
| Nonclinical                            | 81     | 109    | 120    | 120    | 102    | 139    | 123    | 111    |
| Social sciences                        | 239    | 258    | 276    | 237    | 233    | 201    | 200    | 200    |
| Agricultural economics                 | 32     | 33     | 30     | 26     | 17     | 19     | 27     | 30     |
| Anthropology (cultural and social)     | 35     | 47     | 38     | 33     | 28     | 26     | 36     | 31     |
| Economics                              | 24     | 26     | 24     | 17     | 18     | 23     | 12     | 10     |

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

| Field and sex                               | 1998    | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  |
|---|---------|-------|-------|-------|-------|-------|-------|-------|
| Geography                                   | 12      | 19    | 26    | 28    | 18    | 19    | 20    | 32    |
| History and philosophy of science           | 16      | 5     | 8     | 6     | 8     | 10    | 3     | 7     |
| Linguistics                                 | 6       | 6     | 12    | 7     | 10    | 16    | 17    | 10    |
| Political science and public administration | 41      | 48    | 35    | 38    | 44    | 31    | 19    | 22    |
| Sociology                                   | 37      | 41    | 49    | 40    | 45    | 23    | 28    | 21    |
| Other                                       | 36      | 33    | 54    | 42    | 45    | 34    | 38    | 37    |
| Engineering                                 | 2,470   | 2,727 | 2,840 | 2,682 | 2,967 | 3,216 | 3,260 | 3,436 |
| Aerospace                                   | 125     | 113   | 101   | 114   | 123   | 126   | 125   | 129   |
| Agricultural                                | 50      | 54    | 49    | 54    | 56    | 72    | 65    | 69    |
| Biomedical                                  | 141     | 178   | 154   | 189   | 203   | 281   | 297   | 342   |
| Chemical                                    | 496     | 552   | 587   | 466   | 587   | 538   | 545   | 551   |
| Civil                                       | 190     | 244   | 240   | 230   | 290   | 260   | 250   | 322   |
| Electrical                                  | 439     | 481   | 474   | 387   | 557   | 569   | 567   | 599   |
| Engineering science/physics                 | 92      | 105   | 137   | 139   | 140   | 149   | 150   | 146   |
| Industrial/manufacturing                    | 28      | 22    | 40    | 17    | 28    | 36    | 38    | 42    |
| Mechanical                                  | 404     | 442   | 442   | 458   | 395   | 504   | 455   | 502   |
| Metallurgical/materials                     | 339     | 352   | 431   | 400   | 421   | 470   | 477   | 472   |
| Mining                                      | 10      | 6     | 7     | 13    | 10    | 11    | 9     | 7     |
| Nuclear                                     | 17      | 28    | 37    | 73    | 27    | 45    | 57    | 33    |
| Petroleum                                   | 12      | 19    | 19    | 15    | 14    | 15    | 13    | 11    |
| Other                                       | 127     | 131   | 122   | 127   | 116   | 140   | 212   | 211   |
|   | Percent |       |       |       |       |       |       |       |
| Female                                      |         |       |       |       |       |       |       |       |
| S&E   | 29.9    | 30.0  | 29.5  | 30.6  | 31.7  | 32.1  | 32.3  | 32.7  |
| Sciences                                    | 31.7    | 32.0  | 31.4  | 32.4  | 33.6  | 34.1  | 34.2  | 34.8  |
| Agricultural sciences                       | 27.2    | 27.3  | 29.1  | 30.2  | 33.0  | 34.5  | 34.2  | 33.2  |
| Biological sciences                         | 37.5    | 37.7  | 37.3  | 37.8  | 38.9  | 39.3  | 39.5  | 40.4  |
| Anatomy                                     | 38.5    | 38.4  | 34.1  | 36.3  | 42.8  | 41.4  | 44.4  | 44.1  |
| Biochemistry                                | 35.2    | 35.7  | 35.0  | 35.5  | 37.0  | 37.7  | 36.7  | 35.9  |
| Biology                                     | 37.0    | 36.6  | 37.0  | 36.1  | 38.0  | 38.2  | 37.8  | 38.3  |
| Biometry/epidemiology                       | 49.7    | 54.1  | 57.6  | 55.3  | 45.0  | 53.3  | 53.4  | 51.8  |
| Biophysics                                  | 27.2    | 24.1  | 27.4  | 28.9  | 31.8  | 32.3  | 33.9  | 33.5  |
| Botany                                      | 27.7    | 30.4  | 29.9  | 31.5  | 36.5  | 37.7  | 37.0  | 39.6  |
| Cell/molecular biology                      | 38.9    | 38.3  | 39.2  | 39.4  | 38.6  | 39.3  | 38.5  | 39.4  |
| Ecology                                     | 32.2    | 30.1  | 30.9  | 33.5  | 34.9  | 34.9  | 33.5  | 38.5  |
| Entomology/parasitology                     | 26.5    | 26.4  | 26.9  | 25.6  | 25.6  | 26.0  | 29.5  | 30.3  |
| Genetics                                    | 43.3    | 38.9  | 38.6  | 40.7  | 41.1  | 41.7  | 41.2  | 42.4  |
| Microbiology, immunology, and virology      | 42.5    | 43.4  | 41.9  | 42.0  | 43.4  | 42.8  | 40.2  | 42.9  |
| Nutrition                                   | 41.9    | 34.9  | 42.0  | 44.1  | 48.4  | 48.6  | 45.3  | 47.5  |
| Pathology                                   | 38.3    | 38.0  | 37.2  | 37.4  | 40.0  | 38.6  | 38.4  | 42.9  |
| Pharmacology                                | 38.0    | 39.0  | 38.1  | 39.5  | 39.3  | 39.7  | 40.3  | 38.9  |
| Physiology                                  | 32.3    | 35.8  | 36.2  | 37.1  | 35.3  | 36.9  | 39.5  | 39.9  |
| Zoology                                     | 38.5    | 45.7  | 27.9  | 28.4  | 33.7  | 32.9  | 42.3  | 42.3  |
| Other                                       | 35.8    | 35.2  | 34.1  | 37.1  | 37.1  | 40.0  | 44.8  | 44.6  |
| Computer sciences                           | 16.6    | 17.4  | 11.6  | 14.2  | 14.1  | 16.4  | 20.6  | 17.5  |
| Earth, atmospheric, and ocean sciences      | 25.3    | 23.7  | 25.3  | 27.4  | 29.4  | 29.8  | 29.1  | 29.7  |
| Atmospheric                                 | 20.0    | 18.7  | 22.3  | 26.4  | 35.4  | 25.5  | 24.4  | 26.4  |
| Earth                                       | 25.0    | 22.8  | 22.2  | 25.7  | 28.4  | 29.4  | 27.2  | 28.2  |
| Ocean                                       | 30.9    | 29.8  | 32.9  | 35.8  | 35.6  | 34.1  | 36.8  | 34.2  |
| Other                                       | 17.0    | 19.2  | 25.2  | 23.8  | 24.0  | 28.6  | 26.5  | 28.7  |
| Mathematics and statistics                  | 13.6    | 20.8  | 13.2  | 18.1  | 19.3  | 19.2  | 22.5  | 21.6  |
| Mathematics/applied mathematics             | 13.3    | 20.6  | 12.3  | 17.3  | 18.1  | 18.4  | 22.1  | 20.3  |
| Statistics                                  | 16.7    | 23.3  | 25.0  | 29.2  | 35.7  | 27.5  | 26.1  | 31.6  |
| Physical sciences                           | 17.5    | 17.0  | 16.7  | 17.4  | 18.7  | 19.1  | 19.6  | 20.2  |
| Astronomy                                   | 19.4    | 15.5  | 15.6  | 17.7  | 20.0  | 21.9  | 18.8  | 21.1  |
| Chemistry                                   | 20.9    | 20.3  | 19.9  | 21.0  | 22.2  | 22.7  | 22.8  | 23.4  |
| Physics                                     | 10.5    | 10.7  | 10.7  | 10.4  | 12.3  | 12.7  | 13.8  | 14.4  |
| Other                                       | 17.5    | 11.9  | 10.8  | 14.7  | 13.9  | 13.7  | 14.8  | 15.6  |

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

| Field and sex                               | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|---|------|------|------|------|------|------|------|------|
| Psychology                                  | 51.2 | 52.1 | 48.9 | 51.1 | 52.3 | 50.2 | 50.5 | 48.8 |
| Clinical                                    | 64.7 | 77.1 | 69.9 | 74.1 | 72.1 | 63.9 | 67.2 | 64.1 |
| General                                     | 48.6 | 47.1 | 43.8 | 48.8 | 49.6 | 50.6 | 49.7 | 45.0 |
| Nonclinical                                 | 53.2 | 53.4 | 51.2 | 47.8 | 52.6 | 45.3 | 48.1 | 53.9 |
| Social sciences                             | 38.9 | 43.2 | 41.4 | 42.2 | 48.7 | 50.0 | 45.2 | 46.1 |
| Agricultural economics                      | 15.8 | 23.3 | 26.8 | 25.7 | 19.0 | 24.0 | 20.6 | 25.0 |
| Anthropology (cultural and social)          | 43.5 | 46.0 | 47.9 | 41.1 | 57.6 | 54.4 | 33.3 | 52.3 |
| Economics                                   | 17.2 | 16.1 | 25.0 | 26.1 | 37.9 | 36.1 | 40.0 | 23.1 |
| Geography                                   | 33.3 | 36.7 | 23.5 | 22.2 | 40.0 | 34.5 | 35.5 | 23.8 |
| History and philosophy of science           | 30.4 | 50.0 | 42.9 | 33.3 | 38.5 | 28.6 | 50.0 | 22.2 |
| Linguistics                                 | 66.7 | 60.0 | 36.8 | 58.8 | 54.5 | 44.8 | 41.4 | 58.3 |
| Political science and public administration | 35.9 | 31.4 | 30.0 | 26.9 | 27.9 | 39.2 | 56.8 | 47.6 |
| Sociology                                   | 53.2 | 60.6 | 52.0 | 56.5 | 58.7 | 69.7 | 63.6 | 66.7 |
| Other                                       | 40.0 | 48.4 | 49.1 | 53.3 | 56.3 | 60.0 | 45.7 | 49.3 |
| Engineering                                 | 13.4 | 14.7 | 14.3 | 15.3 | 16.8 | 15.8 | 17.8 | 17.5 |
| Aerospace                                   | 6.0  | 11.7 | 9.0  | 10.9 | 12.1 | 10.6 | 11.3 | 15.7 |
| Agricultural                                | 10.7 | 12.9 | 12.5 | 10.0 | 15.2 | 18.2 | 17.7 | 22.5 |
| Biomedical                                  | 21.7 | 26.4 | 30.0 | 27.9 | 28.5 | 27.6 | 30.1 | 28.3 |
| Chemical                                    | 19.1 | 17.7 | 16.5 | 19.0 | 21.0 | 19.9 | 20.8 | 19.7 |
| Civil                                       | 15.6 | 18.4 | 18.6 | 17.9 | 19.0 | 18.5 | 24.7 | 19.5 |
| Electrical                                  | 10.0 | 12.2 | 9.7  | 11.0 | 9.0  | 11.9 | 13.2 | 12.8 |
| Engineering science/physics                 | 16.4 | 13.9 | 16.0 | 14.2 | 17.2 | 17.2 | 16.7 | 13.1 |
| Industrial/manufacturing                    | 6.7  | 18.5 | 16.7 | 15.0 | 33.3 | 20.0 | 24.0 | 17.6 |
| Mechanical                                  | 6.9  | 7.1  | 7.9  | 8.6  | 10.4 | 7.2  | 11.5 | 10.7 |
| Metallurgical/materials                     | 16.1 | 16.4 | 15.0 | 16.5 | 17.0 | 12.8 | 15.9 | 18.3 |
| Mining                                      | 0.0  | 0.0  | 12.5 | 7.1  | 0.0  | 8.3  | 0.0  | 12.5 |
| Nuclear                                     | 10.5 | 6.7  | 7.5  | 6.4  | 3.6  | 13.5 | 14.9 | 19.5 |
| Petroleum                                   | 14.3 | 0.0  | 5.0  | 11.8 | 6.7  | 11.8 | 7.1  | 15.4 |
| Other                                       | 7.3  | 9.7  | 10.9 | 18.1 | 24.2 | 21.3 | 13.8 | 15.6 |

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

TABLE H-2. Employed females 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages

(Thousands)

| Occupation                                       | 1984   | 1986   | 1988   | 1990   | 1992   | 1994   | 1996   | 1998   | 2000   | 2002   | 2004   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| All occupations                                  | 45,915 | 48,706 | 51,696 | 53,689 | 54,052 | 56,610 | 58,501 | 60,771 | 62,915 | 63,582 | 64,728 |
| Managers and professionals                       | 10,508 | 11,712 | 13,233 | 14,218 | 14,881 | 16,425 | 17,927 | 19,245 | 20,530 | 21,600 | 22,496 |
| Executives, administrators, and managers         | 3,889  | 4,653  | 5,590  | 5,931  | 6,110  | 7,014  | 7,767  | 8,469  | 8,960  | 9,446  | 8,517  |
| Professional specialty                           | 6,619  | 7,059  | 7,643  | 8,287  | 8,771  | 9,411  | 10,160 | 10,776 | 11,570 | 12,154 | 13,979 |
| Engineers, architects, and surveyors             | 113    | 119    | 153    | 177    | 172    | 181    | 197    | 257    | 258    | 261    | 380    |
| Architect  | S      | S      | S      | S      | S      | S      | S      | S      | 51     | S      | 50     |
| Engineer   | 101    | 105    | 132    | 149    | 149    | 155    | 167    | 228    | 207    | 219    | 186    |
| 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     | na     | S      |
| Electrical and electronic engineer               | S      | S      | S      | 51     | S      | S      | S      | 57     | 71     | 70     | 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       | 1,668  | 1,728  | 1,829  | 1,992  | 2,177  | 2,333  | 2,409  | 2,470  | 2,541  | 2,822  | 2,957  |
| Audiologist                                      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Chiropractor                                     | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Dietitian  | 67     | 68     | 64     | 79     | 80     | 79     | 95     | 78     | 87     | 66     | 75     |
| Pharmacist                                       | S      | 51     | 54     | 64     | 75     | 70     | 78     | 79     | 97     | 120    | 110    |
| Physicians' assistant                            | S      | S      | S      | S      | S      | S      | S      | S      | S      | 53     | S      |
| Registered nurse                                 | 1,345  | 1,403  | 1,475  | 1,575  | 1,695  | 1,835  | 1,853  | 1,879  | 1,959  | 2,147  | 2,271  |
| Therapist  | 193    | 191    | 218    | 248    | 302    | 320    | 347    | 398    | 357    | 436    | 427    |
| Occupational therapist                           | S      | S      | S      | S      | S      | S      | 55     | 59     | 50     | 70     | 78     |
| Physical therapist                               | 52     | S      | 61     | 68     | 80     | 70     | 73     | 97     | 88     | 117    | 113    |
| Radiation therapist                              | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Recreational therapist                           | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Respiratory therapist                            | S      | S      | S      | S      | 52     | 57     | 56     | 63     | S      | 57     | 56     |
| Speech therapist                                 | S      | 56     | 59     | 55     | 72     | 87     | 91     | 97     | 95     | 111    | 88     |
| Other therapist                                  | S      | S      | S      | 52     | 56     | 62     | 73     | 81     | 75     | 81     | 69     |
| Health diagnosing occupations                    | 104    | 109    | 149    | 155    | 167    | 200    | 245    | 285    | 281    | 344    | 329    |
| 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  | 83     | 86     | 108    | 111    | 126    | 140    | 176    | 197    | 201    | 253    | 244    |
| 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             | 333    | 415    | 427    | 534    | 497    | 560    | 585    | 679    | 837    | 780    | 848    |
| Actuary  | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Computer systems analysts and scientists         | 93     | 133    | 141    | 210    | 205    | 287    | 307    | 396    | 525    | 484    | 206    |
| Computer programmer                              | 179    | 187    | 183    | 216    | 183    | 161    | 173    | 174    | 185    | 155    | 151    |
| Computer software engineer                       | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 204    |
| Computer support specialist                      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 97     |
| Database administrator                           | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Network and computer systems administrators      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Network systems and data communications analysts | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 68     |
| Mathematician                                    | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Operations and systems researchers and analysts  | S      | 77     | 83     | 88     | 87     | 92     | 89     | 89     | 103    | 116    | 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                                | 72     | 86     | 95     | 105    | 125    | 166    | 157    | 161    | 190    | 192    | 234    |
| 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      | 52     | 52     | 56     |
| Chemist, except biochemist                       | S      | S      | S      | S      | S      | 53     | S      | S      | S      | S      | S      |
| Forestry and conservation scientists             | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |

TABLE H-2. Employed females 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages

(Thousands)

| Occupation  | 1984   | 1986   | 1988   | 1990   | 1992   | 1994   | 1996   | 1998   | 2000   | 2002   | 2004   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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      | 54     | 50     |
| 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                            | 130    | 143    | 163    | 187    | 208    | 236    | 249    | 235    | 265    | 272    | 234    |
| Economist   | S      | S      | S      | 50     | 53     | 50     | 81     | 64     | 74     | 68     | S      |
| Market and survey researchers                                   | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 60     |
| Psychologist  | 75     | 87     | 110    | 122    | 138    | 164    | 150    | 144    | 171    | 182    | 124    |
| 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                                  | 2,482  | 2,611  | 2,752  | 2,924  | 3,144  | 3,244  | 3,517  | 3,737  | 4,037  | 4,242  | 4,128  |
| Elementary school   | 1,118  | 1,141  | 1,207  | 1,274  | 1,394  | 1,398  | 1,538  | 1,639  | 1,814  | 1,942  | 2,097  |
| Prekindergarten and kindergarten                                | 327    | 353    | 386    | 450    | 477    | 486    | 533    | 573    | 617    | 632    | 644    |
| Secondary school  | 616    | 655    | 608    | 636    | 647    | 665    | 686    | 697    | 764    | 749    | 636    |
| Special education   | 155    | 188    | 209    | 228    | 226    | 258    | 288    | 312    | 299    | 320    | 320    |
| Other   | 266    | 274    | 342    | 336    | 400    | 437    | 472    | 516    | 543    | 599    | 431    |
| Teachers, postsecondary (college and university)                | 227    | 230    | 270    | 288    | 302    | 356    | 387    | 389    | 420    | 433    | 541    |
| Other professional  | 1,490  | 1,618  | 1,805  | 1,925  | 1,979  | 2,135  | 2,414  | 2,563  | 2,741  | 2,808  | 4,328  |
| Technicians (engineering, health, and science)                  | 1,155  | 1,169  | 1,255  | 1,359  | 1,490  | 1,575  | 1,568  | 1,739  | 1,705  | 1,873  | 1,900  |
| Engineering and related technologists and technicians           | 157    | 166    | 175    | 196    | 162    | 179    | 183    | 202    | 205    | 204    | 141    |
| Drafter   | S      | 55     | S      | 54     | S      | S      | S      | S      | 51     | 53     | S      |
| Electrical and electronic technicians                           | S      | S      | S      | 55     | S      | S      | S      | 73     | 79     | 83     | na     |
| Industrial engineering technician                               | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | na     |
| Mechanical engineering technician                               | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | na     |
| Surveying and mapping technicians                               | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Other engineering technician                                    | 62     | 59     | 70     | 79     | 64     | 73     | 77     | 71     | 65     | 58     | 82     |
| Health technologist and technician                              | 927    | 945    | 1,013  | 1,086  | 1,241  | 1,298  | 1,293  | 1,414  | 1,388  | 1,531  | 1,639  |
| Clinical laboratory technologists and technicians               | 212    | 218    | 207    | 226    | 235    | 263    | 275    | 282    | 257    | 294    | 240    |
| Dental hygienist  | 62     | 59     | 76     | 86     | 73     | 97     | 93     | 111    | 110    | 131    | 129    |
| Diagnostic related technologists and technicians                | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 204    |
| Emergency medical technicians and paramedics                    | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Health diagnosing and treating practitioner support technicians | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 334    |
| Health records technologists and technicians                    | S      | S      | 51     | 65     | 51     | S      | S      | S      | S      | S      | 81     |
| Licensed practical nurse  | 400    | 407    | 406    | 425    | 428    | 378    | 377    | 365    | 350    | 362    | 487    |
| Opticians, dispensing   | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Radiologic technician   | 74     | 76     | 101    | 93     | 108    | 114    | 94     | 118    | 112    | 135    | na     |
| Other health technician   | 143    | 141    | 172    | 190    | 348    | 417    | 438    | 521    | 546    | 590    | 89     |
| Science technician  | 71     | 58     | 67     | 77     | 87     | 98     | 92     | 123    | 112    | 138    | 120    |
| Agricultural and food science technicians                       | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Biological technician   | S      | S      | S      | S      | S      | S      | S      | 74     | 64     | 78     | S      |
| Chemical technician   | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Geological and petroleum technicians                            | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Nuclear technician  | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Other science technician  | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | 70     |
| Other occupation  | 34,431 | 36,012 | 37,391 | 38,329 | 37,864 | 38,771 | 39,179 | 39,962 | 40,865 | 40,264 | 40,332 |

na = not applicable; not an occupation category.

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

NOTES: 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. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002 and 2004 may not be comparable to data for previous years. Data for 2001 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 2000 reflect weights based on the 1990 decennial census. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1984–2004.

TABLE H-3. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2004 annual averages

(Thousands)

| Occupation                                       | 1984   | 1986   | 1988   | 1990   | 1992   | 1994   | 1996   | 1998   | 2000   | 2002   | 2004   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| All occupations                                  | 59,091 | 60,892 | 63,273 | 65,104 | 64,440 | 66,450 | 68,207 | 70,693 | 72,293 | 72,903 | 74,524 |
| Managers and professionals                       | 14,856 | 15,391 | 16,526 | 16,985 | 16,758 | 17,971 | 19,131 | 20,305 | 21,056 | 21,487 | 22,945 |
| Executives, administrators, and managers         | 7,683  | 7,990  | 8,626  | 8,872  | 8,612  | 9,298  | 9,979  | 10,585 | 10,814 | 11,115 | 11,718 |
| Professional specialty                           | 7,173  | 7,401  | 7,900  | 8,113  | 8,146  | 8,673  | 9,152  | 9,720  | 10,242 | 10,372 | 11,227 |
| Engineers, architects, and surveyors             | 1,645  | 1,787  | 1,818  | 1,861  | 1,736  | 1,849  | 1,943  | 1,968  | 2,068  | 1,988  | 2,380  |
| Architect  | 95     | 119    | 122    | 116    | 116    | 117    | 133    | 130    | 164    | 157    | 157    |
| Engineer   | 1,526  | 1,644  | 1,673  | 1,719  | 1,605  | 1,711  | 1,793  | 1,824  | 1,886  | 1,809  | 1,634  |
| Aerospace engineer                               | 77     | 87     | 108    | 102    | 82     | 64     | 77     | 78     | 70     | 83     | 101    |
| Chemical engineer                                | 51     | 54     | 57     | 63     | 66     | 52     | 81     | 58     | 76     | 65     | 53     |
| Civil engineer                                   | 209    | 227    | 205    | 223    | 199    | 221    | 226    | 261    | 260    | 238    | 259    |
| Computer hardware engineers                      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 84     |
| Electrical and electronic engineer               | 456    | 512    | 528    | 536    | 486    | 519    | 553    | 572    | 654    | 607    | 316    |
| Industrial engineer                              | 174    | 181    | 192    | 179    | 175    | 209    | 223    | 214    | 207    | 195    | 144    |
| Mechanical engineer                              | 255    | 277    | 286    | 299    | 288    | 324    | 326    | 311    | 321    | 281    | 293    |
| Other engineer                                   | 303    | 306    | 297    | 318    | 309    | 322    | 309    | 331    | 296    | 278    | 384    |
| Surveyors and mappers                            | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Health assessment and treating occupations       | 262    | 298    | 325    | 321    | 334    | 375    | 403    | 428    | 425    | 446    | 555    |
| Audiologist                                      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Chiropractor                                     | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 56     |
| Dietitian  | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Pharmacist                                       | 116    | 111    | 114    | 107    | 122    | 112    | 106    | 101    | 111    | 112    | 123    |
| Physicians' assistant                            | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Registered nurse                                 | 57     | 85     | 84     | 92     | 104    | 121    | 133    | 153    | 152    | 164    | 193    |
| Therapist  | 58     | 66     | 81     | 77     | 79     | 111    | 126    | 130    | 121    | 127    | 145    |
| Occupational therapist                           | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Physical therapist                               | S      | S      | S      | S      | S      | S      | S      | S      | 56     | 50     | 60     |
| Radiation therapist                              | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Recreational therapist                           | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 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                    | 671    | 618    | 669    | 715    | 745    | 731    | 715    | 798    | 757    | 832    | 787    |
| Dentist  | 129    | 126    | 138    | 145    | 147    | 129    | 119    | 125    | 137    | 145    | 130    |
| Optometrist                                      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Physician  | 437    | 403    | 433    | 466    | 488    | 488    | 491    | 543    | 518    | 572    | 586    |
| 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             | 675    | 765    | 876    | 937    | 993    | 1,175  | 1,321  | 1,681  | 1,937  | 1,855  | 2,292  |
| Actuary  | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Computer systems analysts and scientists         | 217    | 253    | 338    | 399    | 490    | 629    | 786    | 1,075  | 1,271  | 1,258  | 494    |
| Computer programmer                              | 327    | 362    | 387    | 384    | 371    | 388    | 388    | 438    | 514    | 450    | 414    |
| Computer software engineer                       | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 609    |
| Computer support specialist                      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 229    |
| Database administrator                           | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 63     |
| Network and computer systems administrators      | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 151    |
| Network systems and data communications analysts | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 244    |
| Mathematician                                    | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Operations and systems researchers and analysts  | 97     | 118    | 127    | 124    | 105    | 130    | 119    | 123    | 124    | 122    | 51     |
| 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                                | 287    | 298    | 300    | 298    | 336    | 369    | 379    | 359    | 376    | 354    | 419    |
| 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      | 64     | 76     | 71     | 64     | 62     | 66     | 67     |
| Chemist, except biochemist                       | 77     | 95     | 95     | 92     | 85     | 91     | 106    | 89     | 107    | 91     | 95     |
| Forestry and conservation scientists             | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |



TABLE H-3. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2004 annual averages

(Thousands)

| Occupation  | 1984   | 1986   | 1988   | 1990   | 1992   | 1994   | 1996   | 1998   | 2000   | 2002   | 2004   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Geologists and geodesists                                       | 50     | S      | S      | S      | S      | S      | S      | 55     | S      | S      | 62     |
| 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      | 74     |
| Social scientists and urban planners                            | 148    | 169    | 180    | 176    | 178    | 204    | 189    | 195    | 185    | 184    | 183    |
| Economist   | 66     | 68     | 75     | 64     | 70     | 56     | 67     | 74     | 65     | 55     | S      |
| Market and survey researchers                                   | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 64     |
| Psychologist  | 62     | 78     | 87     | 87     | 83     | 116    | 94     | 88     | 94     | 94     | 62     |
| 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                                  | 960    | 946    | 1,021  | 1,048  | 1,060  | 1,087  | 1,207  | 1,225  | 1,317  | 1,411  | 1,311  |
| Elementary school   | 203    | 199    | 217    | 221    | 240    | 236    | 309    | 312    | 363    | 399    | 483    |
| Prekindergarten and kindergarten                                | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      |
| Secondary school  | 587    | 539    | 579    | 562    | 518    | 531    | 542    | 528    | 555    | 540    | 515    |
| Special education   | S      | S      | S      | S      | S      | 50     | 52     | 68     | 63     | 54     | 64     |
| Other   | 138    | 174    | 183    | 216    | 254    | 260    | 295    | 303    | 326    | 402    | 236    |
| Teachers, postsecondary (college and university)                | 393    | 409    | 431    | 480    | 438    | 482    | 502    | 530    | 541    | 582    | 635    |
| Other professional  | 2,132  | 2,111  | 2,280  | 2,277  | 2,326  | 2,401  | 2,493  | 2,536  | 2,636  | 2,720  | 2,665  |
| Technicians (engineering, health, and science)                  | 1,017  | 1,101  | 1,117  | 1,178  | 1,201  | 1,197  | 1,201  | 1,249  | 1,291  | 1,278  | 1,191  |
| Engineering and related technologists and technicians           | 703    | 772    | 755    | 794    | 764    | 737    | 736    | 768    | 797    | 777    | 561    |
| Drafter   | 258    | 229    | 243    | 231    | 207    | 191    | 185    | 184    | 167    | 193    | 157    |
| Electrical and electronic technicians                           | 236    | 287    | 275    | 302    | 292    | 268    | 315    | 358    | 389    | 351    | na     |
| Industrial engineering technician                               | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | na     |
| Mechanical engineering technician                               | S      | S      | S      | S      | S      | S      | S      | S      | S      | S      | na     |
| Surveying and mapping technicians                               | 53     | 72     | 68     | 71     | 67     | 63     | 63     | 62     | 73     | 59     | 70     |
| Other engineering technician                                    | 137    | 170    | 154    | 167    | 183    | 198    | 153    | 141    | 149    | 150    | 334    |
| Health technologists and technicians                            | 185    | 179    | 213    | 218    | 283    | 292    | 312    | 319    | 336    | 347    | 457    |
| Clinical laboratory technologists and technicians               | 69     | 67     | 65     | 71     | 69     | 78     | 100    | 77     | 86     | 90     | 93     |
| 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     | na     | 80     |
| Emergency medical technicians and paramedics                    | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 94     |
| Health diagnosing and treating practitioner support technicians | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | 63     |
| 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     | na     | S      |
| Radiologic technician   | S      | S      | S      | S      | S      | S      | S      | 52     | 50     | S      | na     |
| Other health technician   | 61     | 61     | 90     | 96     | 143    | 153    | 150    | 173    | 173    | 187    | 68     |
| Science technician  | 129    | 150    | 149    | 166    | 154    | 168    | 153    | 162    | 158    | 154    | 173    |
| Agricultural and food science technicians                       | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Biological technician   | S      | S      | S      | S      | S      | S      | S      | S      | S      | 53     | S      |
| Chemical technician   | 52     | 60     | 59     | 61     | 56     | 58     | 57     | 59     | 56     | S      | 56     |
| Geological and petroleum technicians                            | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Nuclear technician  | na     | na     | na     | na     | na     | na     | na     | na     | na     | na     | S      |
| Other science technician  | S      | 54     | 58     | 64     | 59     | 69     | 62     | 68     | 59     | 58     | 79     |
| Other occupation  | 43,545 | 44,762 | 46,017 | 47,325 | 46,852 | 47,670 | 48,262 | 49,577 | 50,459 | 50,588 | 50,388 |

na = not applicable; not an occupation category.

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

NOTES: 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. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002 and 2004 may not be comparable to data for previous years. Data for 2001 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 2000 reflect weights based on the 1990 decennial census. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1984–2004.

TABLE H-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2003

| Occupation                              | All degrees |           |            | Bachelor's |           |           | Master's   |           |           | Doctorate  |         |         |
|---|-------------|-----------|------------|------------|-----------|-----------|------------|-----------|-----------|------------|---------|---------|
|   | Both sexes  | Female    | Male       | Both sexes | Female    | Male      | Both sexes | Female    | Male      | Both sexes | Female  | Male    |
| All occupations                         | 18,019,400  | 7,582,200 | 10,437,200 | 10,484,300 | 4,575,300 | 5,909,100 | 4,976,800  | 2,221,900 | 2,754,900 | 883,700    | 256,900 | 626,900 |
| S&E occupations                         | 4,927,500   | 1,330,500 | 3,597,100  | 2,799,200  | 696,000   | 2,103,200 | 1,453,300  | 437,000   | 1,016,200 | 581,800    | 162,200 | 419,600 |
| Scientist                               | 3,372,700   | 1,158,200 | 2,214,500  | 1,789,700  | 588,600   | 1,201,100 | 1,003,700  | 381,500   | 622,100   | 488,400    | 153,500 | 334,800 |
| Biological/life scientist               | 554,500     | 240,400   | 314,200    | 195,500    | 93,500    | 102,000   | 128,700    | 66,400    | 62,300    | 171,600    | 61,200  | 110,500 |
| Agricultural/food scientist             | 48,500      | 15,200    | 33,300     | 26,100     | 10,000    | 16,100    | 12,500     | 3,300     | 9,200     | 9,200      | 1,600   | 7,700   |
| Biological/medical scientist            | 298,500     | 137,100   | 161,400    | 118,200    | 66,200    | 51,900    | 62,700     | 30,100    | 32,600    | 102,600    | 35,800  | 66,800  |
| Forestry and conservation scientist     | 39,500      | 4,400     | 35,100     | 28,600     | 2,800     | 25,900    | 9,000      | 1,100     | 7,800     | 1,800      | 400     | 1,400   |
| Postsecondary teacher                   | 168,100     | 83,700    | 84,400     | 22,600     | 14,500    | 8,100     | 44,500     | 31,900    | 12,600    | 58,000     | 23,400  | 34,600  |
| Computer and information scientist      | 1,883,400   | 519,700   | 1,363,700  | 1,292,700  | 367,300   | 925,400   | 526,900    | 142,000   | 384,800   | 53,400     | 8,200   | 45,200  |
| Computer/information scientist          | 1,849,000   | 509,700   | 1,339,300  | 1,281,400  | 363,900   | 917,500   | 514,700    | 137,200   | 377,500   | 42,600     | 6,500   | 36,000  |
| Postsecondary teacher                   | 34,400      | 10,000    | 24,400     | 11,300     | 3,400     | 7,900     | 12,200     | 4,900     | 7,300     | 10,900     | 1,700   | 9,200   |
| Mathematical scientist                  | 125,100     | 50,100    | 75,000     | 38,700     | 18,200    | 20,500    | 51,300     | 22,300    | 29,100    | 33,000     | 8,500   | 24,500  |
| Mathematical scientist                  | 67,000      | 25,500    | 41,500     | 28,800     | 13,300    | 15,600    | 25,300     | 9,000     | 16,300    | 11,000     | 2,300   | 8,700   |
| Postsecondary teacher                   | 58,000      | 24,600    | 33,500     | 9,900      | 5,000     | 4,900     | 26,000     | 13,300    | 12,800    | 22,100     | 6,300   | 15,800  |
| Physical scientist                      | 315,100     | 89,900    | 225,100    | 139,400    | 49,400    | 90,000    | 82,900     | 27,000    | 55,900    | 90,500     | 13,300  | 77,300  |
| Chemist, except biochemist              | 124,200     | 46,300    | 77,900     | 68,900     | 30,100    | 38,800    | 25,300     | 11,100    | 14,200    | 29,900     | 5,000   | 24,900  |
| Earth scientist/geologist/oceanographer | 71,300      | 12,800    | 58,500     | 33,300     | 6,600     | 26,700    | 27,200     | 5,000     | 22,100    | 10,200     | 1,200   | 9,000   |
| Physicist/astronomer                    | 30,500      | 3,400     | 27,100     | 5,100      | 600       | 4,500     | 8,300      | 1,500     | 6,800     | 16,800     | 1,300   | 15,500  |
| Other physical scientist                | 37,300      | 13,100    | 24,200     | 22,300     | 8,500     | 13,800    | 10,200     | 3,900     | 6,300     | 4,000      | 700     | 3,300   |
| Postsecondary teacher                   | 51,700      | 14,400    | 37,400     | 9,800      | 3,700     | 6,100     | 12,100     | 5,600     | 6,500     | 29,600     | 5,000   | 24,600  |
| Psychologist                            | 212,000     | 136,600   | 75,400     | 15,900     | 9,300     | 6,500     | 107,600    | 77,800    | 29,800    | 74,700     | 39,500  | 35,200  |
| Psychologist                            | 180,800     | 120,900   | 59,900     | 14,000     | 8,100     | 5,900     | 99,800     | 73,400    | 26,400    | 54,600     | 30,400  | 24,200  |
| Postsecondary teacher                   | 31,200      | 15,700    | 15,500     | 1,900      | 1,300     | S         | 7,800      | 4,400     | 3,400     | 20,100     | 9,100   | 11,000  |
| Social scientist                        | 282,600     | 121,500   | 161,100    | 107,600    | 50,800    | 56,800    | 106,200    | 46,000    | 60,200    | 65,000     | 22,800  | 42,200  |
| Economist                               | 34,500      | 10,400    | 24,100     | 8,800      | 2,400     | 6,500     | 16,500     | 6,400     | 10,100    | 8,500      | 1,700   | 6,900   |
| Political scientist                     | 14,200      | 6,900     | 7,300      | 8,600      | 5,600     | 3,000     | 4,000      | 1,000     | 3,000     | 1,500      | 400     | 1,100   |
| Sociologist/anthropologist              | 21,700      | 12,600    | 9,100      | 8,700      | 5,900     | 2,900     | 7,900      | 4,200     | 3,700     | 5,100      | 2,600   | 2,500   |
| Other social scientist                  | 137,800     | 63,800    | 74,000     | 74,200     | 33,400    | 40,800    | 55,800     | 25,800    | 30,000    | 6,200      | 3,200   | 3,000   |
| Postsecondary teacher                   | 74,400      | 27,600    | 46,700     | 7,200      | 3,500     | 3,700     | 22,100     | 8,600     | 13,500    | 43,700     | 15,000  | 28,700  |
| Engineer                                | 1,554,900   | 172,300   | 1,382,500  | 1,009,500  | 107,400   | 902,100   | 449,600    | 55,500    | 394,100   | 93,400     | 8,600   | 84,800  |
| Aerospace engineer                      | 95,200      | 9,400     | 85,800     | 53,200     | 4,800     | 48,400    | 36,700     | 4,400     | 32,300    | 5,100      | 200     | 4,900   |
| Chemical engineer                       | 74,600      | 14,700    | 60,000     | 45,200     | 10,700    | 34,500    | 20,500     | 3,200     | 17,300    | 9,000      | 700     | 8,200   |
| Civil engineer                          | 247,300     | 31,300    | 216,000    | 173,800    | 20,700    | 153,100   | 68,300     | 10,300    | 58,100    | 5,100      | 400     | 4,800   |
| Electrical engineer                     | 367,400     | 35,200    | 332,200    | 228,900    | 20,700    | 208,200   | 117,500    | 12,900    | 104,600   | 20,700     | 1,500   | 19,200  |
| Industrial engineer                     | 85,700      | 10,400    | 75,300     | 60,500     | 7,000     | 53,400    | 22,600     | 3,200     | 19,400    | 2,400      | 200     | 2,200   |
| Mechanical engineer                     | 272,100     | 17,800    | 254,200    | 187,900    | 12,400    | 175,500   | 74,100     | 4,900     | 69,200    | 9,600      | 500     | 9,000   |
| Other engineer                          | 379,600     | 49,100    | 330,500    | 254,600    | 30,600    | 224,000   | 102,100    | 14,900    | 87,200    | 21,900     | 2,900   | 19,000  |
| Postsecondary teacher                   | 33,000      | 4,400     | 28,600     | 5,400      | 500       | 5,000     | 7,800      | 1,700     | 6,100     | 19,600     | 2,200   | 17,400  |
| S&E related occupations                 | 5,220,600   | 2,886,900 | 2,333,700  | 2,938,500  | 1,837,400 | 1,101,100 | 1,196,200  | 717,200   | 479,000   | 81,700     | 29,800  | 51,900  |
| Health related occupation               | 3,404,800   | 2,207,300 | 1,197,500  | 1,812,700  | 1,437,400 | 375,300   | 568,300    | 454,100   | 114,200   | 33,700     | 18,200  | 15,400  |

TABLE H-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2003

| Occupation                             | All degrees |           |           | Bachelor's |           |           | Master's   |           |           | Doctorate  |        |         |
|--|-------------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|--------|---------|
|  | Both sexes  | Female    | Male      | Both sexes | Female    | Male      | Both sexes | Female    | Male      | Both sexes | Female | Male    |
| S&E manager                            | 385,700     | 112,200   | 273,500   | 219,200    | 64,900    | 154,300   | 135,300    | 42,100    | 93,200    | 26,000     | 4,800  | 21,200  |
| S&E precollege teacher                 | 715,900     | 372,200   | 343,800   | 356,800    | 190,600   | 166,200   | 341,100    | 172,700   | 168,400   | 11,900     | 5,100  | 6,800   |
| S&E technician/technologist            | 499,600     | 143,000   | 356,600   | 401,100    | 107,800   | 293,300   | 89,400     | 33,100    | 56,200    | 7,500      | 1,500  | 6,100   |
| Other S&E related occupation           | 214,500     | 52,100    | 162,300   | 148,700    | 36,800    | 111,900   | 62,100     | 15,200    | 46,900    | 2,600      | S      | 2,500   |
| Non-S&E occupations                    | 7,871,300   | 3,364,900 | 4,506,400 | 4,746,600  | 2,041,800 | 2,704,800 | 2,327,400  | 1,067,700 | 1,259,700 | 220,200    | 64,900 | 155,300 |
| Art, humanities and related occupation | 247,700     | 130,400   | 117,300   | 159,900    | 88,600    | 71,400    | 73,700     | 36,400    | 37,300    | 9,600      | 3,700  | 5,900   |
| Management related occupation          | 1,310,600   | 530,700   | 779,900   | 793,500    | 337,800   | 455,700   | 457,400    | 172,000   | 285,500   | 31,300     | 8,600  | 22,700  |
| Non-S&E manager                        | 919,700     | 201,000   | 718,700   | 455,300    | 87,600    | 367,700   | 362,100    | 88,400    | 273,700   | 73,400     | 19,000 | 54,400  |
| Non-S&E postsecondary teacher          | 139,200     | 61,100    | 78,000    | 25,800     | 12,900    | 12,900    | 63,000     | 30,700    | 32,300    | 45,400     | 15,500 | 29,900  |
| Non-S&E precollege teacher             | 599,800     | 472,300   | 127,400   | 303,600    | 247,600   | 56,000    | 283,100    | 216,600   | 66,500    | 8,100      | 3,900  | 4,100   |
| Sales and marketing occupation         | 1,322,100   | 431,300   | 890,800   | 980,000    | 327,200   | 652,800   | 303,500    | 96,100    | 207,500   | 17,700     | 3,900  | 13,900  |
| Social services and related occupation | 621,000     | 422,900   | 198,000   | 240,000    | 169,400   | 70,600    | 352,800    | 246,000   | 106,800   | 12,300     | 3,200  | 9,100   |
| Other non-S&E occupation               | 2,711,400   | 1,115,100 | 1,596,300 | 1,788,500  | 770,800   | 1,017,700 | 431,700    | 181,500   | 250,200   | 22,400     | 7,200  | 15,300  |

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. 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-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/<br>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/<br>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/<br>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&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-16. Median annual salary of scientists and engineers employed full time, by highest degree, broad occupation, age group, and sex: 2003

(Dollars)

| Occupation and age (years)         | All degrees |        |        | Bachelor's |        |        | Master's   |        |        | Doctorate  |        |        |
|------------------------------------|-------------|--------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
|                                    | Both sexes  | Female | Male   | Both sexes | Female | Male   | Both sexes | Female | Male   | Both sexes | Female | Male   |
| All occupations                    | 60,000      | 49,000 | 70,000 | 53,600     | 44,900 | 62,000 | 63,100     | 52,000 | 74,000 | 77,000     | 63,000 | 83,000 |
| 29 and younger                     | 40,000      | 38,000 | 45,000 | 39,000     | 35,000 | 45,000 | 45,000     | 41,000 | 50,000 | 44,000     | 40,000 | 53,000 |
| 30-39                              | 58,500      | 48,700 | 65,000 | 54,000     | 45,000 | 60,000 | 61,000     | 49,000 | 70,000 | 62,400     | 55,000 | 70,000 |
| 40-49                              | 68,000      | 54,000 | 78,500 | 60,900     | 50,000 | 70,000 | 70,000     | 56,600 | 80,000 | 78,000     | 65,000 | 83,500 |
| 50 and older                       | 65,000      | 52,000 | 75,000 | 57,000     | 45,200 | 65,000 | 65,000     | 55,000 | 73,500 | 86,500     | 70,000 | 90,000 |
| S&E occupations                    | 69,500      | 58,000 | 72,000 | 65,000     | 55,000 | 69,500 | 72,100     | 60,000 | 78,000 | 75,000     | 61,000 | 80,000 |
| 29 and younger                     | 49,000      | 43,000 | 52,000 | 48,000     | 42,000 | 51,000 | 52,000     | 45,800 | 58,000 | 40,000     | 40,000 | 53,600 |
| 30-39                              | 65,000      | 59,000 | 68,500 | 65,000     | 59,000 | 66,000 | 70,000     | 60,000 | 75,000 | 60,500     | 54,000 | 65,000 |
| 40-49                              | 75,000      | 65,000 | 80,000 | 73,400     | 63,000 | 75,000 | 80,000     | 65,400 | 84,100 | 75,300     | 65,000 | 80,000 |
| 50 and older                       | 76,000      | 62,000 | 80,000 | 73,000     | 60,000 | 75,000 | 76,000     | 60,000 | 80,000 | 85,000     | 70,000 | 90,000 |
| Scientist                          | 65,000      | 56,000 | 70,000 | 62,000     | 52,000 | 66,200 | 69,000     | 57,000 | 75,000 | 71,400     | 60,000 | 76,000 |
| 29 and younger                     | 45,000      | 40,000 | 50,000 | 44,400     | 40,000 | 50,000 | 50,000     | 43,500 | 56,500 | 40,000     | 40,000 | 45,000 |
| 30-39                              | 64,000      | 56,000 | 67,500 | 63,000     | 56,000 | 65,000 | 68,000     | 58,000 | 75,000 | 57,000     | 53,000 | 60,000 |
| 40-49                              | 72,000      | 63,000 | 76,000 | 70,000     | 62,000 | 74,000 | 75,000     | 61,800 | 80,000 | 72,500     | 64,000 | 76,200 |
| 50 and older                       | 72,000      | 61,900 | 77,000 | 68,900     | 60,000 | 70,000 | 70,000     | 60,000 | 75,000 | 82,000     | 70,000 | 86,000 |
| Biological/life scientist          | 52,000      | 48,600 | 55,000 | 42,000     | 40,000 | 45,000 | 50,000     | 46,000 | 52,000 | 67,900     | 60,000 | 72,000 |
| 29 and younger                     | 32,000      | 31,000 | 32,000 | 30,000     | 28,000 | 31,000 | 37,500     | 38,000 | 37,500 | 36,000     | 36,000 | 32,500 |
| 30-39                              | 48,000      | 48,000 | 46,000 | 48,000     | 49,000 | 45,800 | 43,000     | 42,400 | 43,000 | 48,000     | 48,000 | 48,500 |
| 40-49                              | 60,000      | 56,500 | 62,200 | 47,000     | 50,000 | 46,000 | 52,000     | 46,000 | 54,500 | 70,000     | 62,000 | 73,000 |
| 50 and older                       | 68,000      | 60,900 | 72,000 | 52,000     | 52,800 | 52,000 | 55,000     | 55,000 | 55,000 | 83,000     | 70,000 | 89,000 |
| Computer and information scientist | 70,000      | 63,000 | 74,000 | 68,000     | 60,000 | 70,000 | 79,000     | 70,000 | 81,000 | 85,000     | 72,000 | 85,000 |
| 29 and younger                     | 55,000      | 51,000 | 57,500 | 53,000     | 50,000 | 54,600 | 65,000     | 60,000 | 70,000 | 90,000     | S      | 90,000 |
| 30-39                              | 70,000      | 63,000 | 72,000 | 67,500     | 62,000 | 70,000 | 77,000     | 66,000 | 80,000 | 78,000     | 65,000 | 80,000 |
| 40-49                              | 77,000      | 67,000 | 80,000 | 75,000     | 65,000 | 77,600 | 82,400     | 70,000 | 88,000 | 88,000     | 75,000 | 90,000 |
| 50 and older                       | 75,000      | 67,000 | 79,000 | 71,000     | 60,000 | 75,000 | 80,000     | 75,000 | 82,200 | 85,000     | 71,400 | 87,000 |
| Mathematical scientist             | 60,000      | 50,000 | 70,000 | 56,000     | 47,000 | 68,600 | 58,000     | 49,000 | 65,000 | 67,000     | 53,000 | 71,000 |
| 29 and younger                     | 40,000      | 40,000 | 42,000 | 42,000     | 42,000 | 42,000 | 43,000     | 48,000 | 40,000 | 40,000     | 40,000 | 63,000 |
| 30-39                              | 56,000      | 50,000 | 60,000 | 50,000     | 40,000 | 54,000 | 60,000     | 54,000 | 62,000 | 56,500     | 60,700 | 56,000 |
| 40-49                              | 71,000      | 55,500 | 76,000 | 87,000     | 71,000 | 99,200 | 68,000     | 55,000 | 75,000 | 72,000     | 60,600 | 73,300 |
| 50 and older                       | 70,000      | 52,000 | 78,700 | 75,000     | 55,000 | 82,500 | 57,000     | 42,300 | 63,000 | 80,000     | 70,000 | 80,400 |
| Physical scientist                 | 60,000      | 47,500 | 65,000 | 47,000     | 44,500 | 50,000 | 65,500     | 59,000 | 70,000 | 79,000     | 66,000 | 80,000 |
| 29 and younger                     | 38,000      | 40,000 | 35,000 | 38,000     | 40,000 | 35,000 | 42,300     | 42,300 | 38,000 | 52,000     | 40,000 | 55,600 |
| 30-39                              | 52,000      | 50,000 | 53,500 | 48,000     | 42,000 | 50,000 | 58,000     | 60,000 | 55,000 | 64,000     | 61,100 | 65,000 |
| 40-49                              | 68,000      | 61,000 | 71,600 | 60,000     | 51,700 | 60,000 | 70,000     | 65,500 | 75,000 | 80,000     | 70,000 | 80,100 |
| 50 and older                       | 74,300      | 59,000 | 79,000 | 60,000     | 52,000 | 60,000 | 82,000     | 64,000 | 82,000 | 91,000     | 70,100 | 93,000 |

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

TABLE H-16. Median annual salary of scientists and engineers employed full time, by highest degree, broad occupation, age group, and sex: 2003

(Dollars)

| Occupation and age (years) | All degrees |        |        | Bachelor's |        |        | Master's   |        |        | Doctorate  |        |         |
|----------------------------|-------------|--------|--------|------------|--------|--------|------------|--------|--------|------------|--------|---------|
|                            | Both sexes  | Female | Male   | Both sexes | Female | Male   | Both sexes | Female | Male   | Both sexes | Female | Male    |
| Psychologist               | 55,000      | 50,000 | 61,000 | 31,000     | 34,000 | 27,500 | 47,500     | 45,000 | 53,100 | 67,000     | 60,000 | 75,000  |
| 29 and younger             | 35,000      | 36,000 | 30,500 | 27,500     | 24,700 | 27,500 | 39,800     | 38,800 | 40,000 | 50,000     | 50,000 | 55,000  |
| 30-39                      | 45,500      | 47,000 | 44,600 | 26,000     | 48,800 | 26,000 | 42,000     | 44,000 | 41,000 | 55,000     | 54,000 | 56,300  |
| 40-49                      | 60,000      | 54,000 | 68,000 | 47,000     | 30,000 | 47,000 | 50,000     | 46,000 | 60,000 | 66,800     | 65,000 | 70,000  |
| 50 and older               | 62,000      | 58,000 | 70,000 | 38,000     | 38,000 | 21,500 | 55,000     | 52,000 | 60,000 | 75,000     | 65,000 | 80,700  |
| Social scientist           | 58,000      | 50,000 | 65,000 | 49,000     | 44,500 | 52,000 | 60,000     | 50,000 | 75,000 | 67,600     | 62,300 | 70,000  |
| 29 and younger             | 40,000      | 40,000 | 40,000 | 40,000     | 40,000 | 38,000 | 40,000     | 40,000 | 40,000 | 65,000     | S      | 73,600  |
| 30-39                      | 55,000      | 51,000 | 57,000 | 53,000     | 53,000 | 50,500 | 56,200     | 50,000 | 72,000 | 58,000     | 56,000 | 60,000  |
| 40-49                      | 65,000      | 57,000 | 70,000 | 52,000     | 60,000 | 52,000 | 70,000     | 57,000 | 75,000 | 62,200     | 58,000 | 67,000  |
| 50 and older               | 75,000      | 68,000 | 81,000 | 75,000     | 61,800 | 84,000 | 75,000     | 66,000 | 82,000 | 75,000     | 72,000 | 78,700  |
| Engineer                   | 74,000      | 65,000 | 75,000 | 70,000     | 60,200 | 70,500 | 80,000     | 70,000 | 80,000 | 90,000     | 80,000 | 90,000  |
| 29 and younger             | 54,900      | 52,000 | 55,000 | 54,000     | 52,000 | 54,000 | 57,500     | 50,000 | 60,000 | 66,000     | 66,000 | 66,000  |
| 30-39                      | 70,000      | 68,500 | 70,000 | 67,000     | 65,000 | 67,000 | 74,000     | 70,000 | 74,000 | 81,000     | 75,000 | 82,000  |
| 40-49                      | 80,000      | 78,600 | 81,000 | 79,000     | 70,000 | 79,500 | 86,000     | 84,000 | 86,000 | 90,000     | 82,000 | 91,000  |
| 50 and older               | 82,000      | 70,000 | 82,400 | 80,000     | 70,000 | 80,000 | 85,000     | 70,000 | 86,000 | 100,000    | 89,500 | 100,000 |
| S&E related occupations    | 57,000      | 50,000 | 70,000 | 50,000     | 47,000 | 57,500 | 56,000     | 53,000 | 60,000 | 85,000     | 55,000 | 100,000 |
| 29 and younger             | 40,000      | 40,000 | 40,500 | 38,700     | 38,000 | 40,000 | 41,100     | 41,000 | 45,000 | 48,000     | 80,000 | 40,000  |
| 30-39                      | 52,000      | 48,000 | 60,000 | 48,000     | 45,000 | 52,000 | 50,000     | 49,000 | 56,000 | 55,000     | 55,000 | 82,000  |
| 40-49                      | 62,000      | 55,000 | 80,000 | 55,000     | 50,000 | 63,000 | 61,100     | 60,000 | 68,000 | 96,000     | 72,000 | 110,000 |
| 50 and older               | 65,000      | 52,600 | 80,000 | 54,000     | 50,000 | 64,000 | 60,000     | 56,500 | 70,000 | 90,000     | 55,000 | 102,000 |
| Non-S&E occupations        | 54,000      | 43,000 | 65,000 | 48,000     | 38,000 | 57,000 | 60,000     | 49,500 | 73,000 | 85,000     | 68,700 | 90,000  |
| 29 and younger             | 35,000      | 32,000 | 40,000 | 32,000     | 30,000 | 36,700 | 40,000     | 39,000 | 45,000 | 45,000     | S      | 45,000  |
| 30-39                      | 53,000      | 44,000 | 62,400 | 50,000     | 40,000 | 55,000 | 60,000     | 46,800 | 75,000 | 75,500     | 55,000 | 87,000  |
| 40-49                      | 62,000      | 49,000 | 75,000 | 55,000     | 41,000 | 65,000 | 65,000     | 51,000 | 80,000 | 80,000     | 63,000 | 93,000  |
| 50 and older               | 60,000      | 48,000 | 65,900 | 50,000     | 40,000 | 60,000 | 62,000     | 52,000 | 70,000 | 90,000     | 77,000 | 93,600  |

S = suppressed because fewer than 200 weighted cases.

NOTES: Salaries rounded to nearest \$100. All degrees includes professional degrees not shown separately.

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



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/<br>ethnicities | White  | Asian  | Black  | Hispanic | American<br>Indian/<br>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/<br>ethnicities | White  | Asian  | Black  | Hispanic | American                 |
|------------------------------------|---------------------------|--------|--------|--------|----------|--------------------------|
|                                    |                           |        |        |        |          | Indian/<br>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/<br>ethnicities | White  | Asian  | Black  | Hispanic | American<br>Indian/<br>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/<br>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/<br>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/<br>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/<br>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/<br>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/<br>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-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

| Occupation, sex, and years since doctorate | Total   | Professor | Associate professor | Assistant professor | Other faculty | Rank 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              |
| Fewer than 10                              | 61,900  | 2,100     | 9,000               | 23,700              | 6,600         | 20,600              |
| 10-19                                      | 35,500  | 8,600     | 13,000              | 6,500               | 1,600         | 5,800               |
| 20-29                                      | 18,500  | 10,700    | 3,900               | 800                 | 1,400         | 1,800               |
| 30 or more                                 | 6,300   | 3,900     | 500                 | 100                 | 300           | 1,400               |
| Male                                       | 263,000 | 97,600    | 53,600              | 47,700              | 10,000        | 54,100              |
| Fewer than 10                              | 92,400  | 3,700     | 13,800              | 36,400              | 4,800         | 33,700              |
| 10-19                                      | 65,400  | 21,300    | 24,500              | 8,800               | 1,800         | 9,100               |
| 20-29                                      | 57,000  | 36,500    | 10,600              | 1,900               | 1,600         | 6,300               |
| 30 or more                                 | 48,100  | 36,100    | 4,700               | 600                 | 1,900         | 4,900               |
| 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              |
| Fewer than 10                              | 47,600  | 1,600     | 7,600               | 18,100              | 4,500         | 15,800              |
| 10-19                                      | 26,500  | 5,300     | 10,500              | 5,500               | 1,500         | 3,700               |
| 20-29                                      | 12,000  | 6,500     | 2,900               | 600                 | 700           | 1,300               |
| 30 or more                                 | 4,300   | 2,900     | 400                 | 100                 | 300           | 600                 |
| Male                                       | 204,400 | 76,000    | 43,700              | 39,000              | 6,700         | 39,000              |
| Fewer than 10                              | 70,000  | 1,900     | 10,200              | 29,400              | 3,100         | 25,400              |
| 10-19                                      | 54,000  | 16,300    | 21,000              | 7,400               | 1,400         | 7,900               |
| 20-29                                      | 43,400  | 28,900    | 8,500               | 1,700               | 800           | 3,500               |
| 30 or more                                 | 37,000  | 28,800    | 4,100               | 500                 | 1,500         | 2,200               |
| 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              |
| Fewer than 10                              | 45,200  | 1,600     | 7,300               | 17,000              | 4,300         | 15,000              |
| 10-19                                      | 25,700  | 5,000     | 10,200              | 5,400               | 1,400         | 3,700               |
| 20-29                                      | 11,900  | 6,400     | 2,900               | 600                 | 700           | 1,200               |
| 30 or more                                 | 4,300   | 2,900     | 400                 | 100                 | 300           | 600                 |
| Male                                       | 180,000 | 65,600    | 38,600              | 34,600              | 6,400         | 34,800              |
| Fewer than 10                              | 61,800  | 1,700     | 8,800               | 25,900              | 3,000         | 22,400              |
| 10-19                                      | 47,500  | 13,300    | 18,700              | 6,700               | 1,300         | 7,500               |
| 20-29                                      | 38,000  | 25,100    | 7,400               | 1,600               | 700           | 3,100               |
| 30 or more                                 | 32,600  | 25,400    | 3,700               | 400                 | 1,400         | 1,800               |
| 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              |
| Fewer than 10                              | 22,100  | 1,200     | 2,000               | 6,600               | 1,800         | 10,500              |
| 10-19                                      | 12,900  | 2,500     | 4,400               | 3,200               | 700           | 2,100               |
| 20-29                                      | 5,200   | 2,700     | 1,200               | 400                 | 300           | 700                 |
| 30 or more                                 | 1,800   | 1,200     | 200                 | S                   | S             | 300                 |
| Male                                       | 71,000  | 22,200    | 14,500              | 12,800              | 2,600         | 19,000              |
| Fewer than 10                              | 25,300  | 400       | 2,200               | 7,800               | 1,500         | 13,500              |
| 10-19                                      | 20,200  | 3,800     | 7,600               | 4,000               | 600           | 4,200               |
| 20-29                                      | 13,800  | 8,600     | 3,300               | 800                 | S             | 800                 |
| 30 or more                                 | 11,700  | 9,400     | 1,300               | S                   | 400           | 500                 |
| Computer and information scientist         | 14,800  | 3,500     | 3,400               | 3,600               | 600           | 3,600               |
| Female                                     | 2,400   | 300       | 500                 | 600                 | 300           | 700                 |
| Fewer than 10                              | 1,600   | S         | 200                 | 600                 | S             | 500                 |
| 10-19                                      | 400     | 100       | 300                 | S                   | S             | S                   |
| 20-29                                      | 300     | 100       | S                   | S                   | S             | S                   |
| 30 or more                                 | S       | S         | S                   | S                   | S             | S                   |
| Male                                       | 12,400  | 3,200     | 2,900               | 3,000               | 400           | 2,900               |
| Fewer than 10                              | 5,800   | S         | 1,000               | 2,700               | 200           | 1,800               |
| 10-19                                      | 3,100   | 1,000     | 1,100               | 200                 | S             | 700                 |
| 20-29                                      | 2,200   | 1,300     | 500                 | S                   | S             | 300                 |
| 30 or more                                 | 1,400   | 800       | 400                 | S                   | S             | S                   |

TABLE H-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

| Occupation, sex, and years since doctorate | Total  | Professor | Associate professor | Assistant professor | Other faculty | Rank not applicable |
|--|--------|-----------|---------------------|---------------------|---------------|---------------------|
| 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                 |
| Fewer than 10                              | 4,300  | S         | 2,400               | 1,400               | 300           | 200                 |
| 10-19                                      | 1,300  | 300       | 500                 | 200                 | S             | S                   |
| 20-29                                      | 700    | 500       | 100                 | S                   | S             | S                   |
| 30 or more                                 | 200    | S         | S                   | S                   | S             | S                   |
| Male                                       | 17,000 | 7,600     | 4,000               | 3,600               | 700           | 1,200               |
| Fewer than 10                              | 5,000  | 200       | 1,000               | 3,200               | 200           | 500                 |
| 10-19                                      | 5,300  | 2,600     | 1,900               | 300                 | S             | 300                 |
| 20-29                                      | 3,000  | 2,000     | 600                 | S                   | 200           | 200                 |
| 30 or more                                 | 3,700  | 2,800     | 500                 | S                   | 100           | 200                 |
| 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               |
| Fewer than 10                              | 3,100  | S         | 300                 | 1,300               | 500           | 1,000               |
| 10-19                                      | 2,200  | 500       | 900                 | 400                 | S             | 400                 |
| 20-29                                      | 700    | 200       | S                   | S                   | 100           | 200                 |
| 30 or more                                 | 600    | 300       | S                   | S                   | S             | S                   |
| Male                                       | 35,400 | 12,700    | 6,300               | 6,700               | 1,100         | 8,500               |
| Fewer than 10                              | 12,200 | 500       | 1,400               | 4,900               | 300           | 5,000               |
| 10-19                                      | 8,800  | 2,300     | 3,100               | 1,400               | 300           | 1,700               |
| 20-29                                      | 7,100  | 4,400     | 1,100               | 300                 | S             | 1,100               |
| 30 or more                                 | 7,300  | 5,500     | 700                 | S                   | 300           | 700                 |
| 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               |
| Fewer than 10                              | 6,900  | S         | 900                 | 3,200               | 800           | 1,800               |
| 10-19                                      | 3,900  | 700       | 1,600               | 800                 | 100           | 700                 |
| 20-29                                      | 1,900  | 900       | 500                 | S                   | S             | 200                 |
| 30 or more                                 | 800    | 600       | 200                 | S                   | S             | S                   |
| Male                                       | 13,400 | 6,200     | 2,600               | 2,500               | 500           | 1,600               |
| Fewer than 10                              | 3,500  | S         | 600                 | 1,800               | 300           | 800                 |
| 10-19                                      | 2,900  | 800       | 1,100               | 500                 | S             | 400                 |
| 20-29                                      | 4,000  | 2,800     | 700                 | 200                 | S             | 200                 |
| 30 or more                                 | 3,000  | 2,500     | 300                 | 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               |
| Fewer than 10                              | 7,300  | 200       | 1,700               | 3,900               | 700           | 1,000               |
| 10-19                                      | 4,900  | 900       | 2,600               | 800                 | 400           | 300                 |
| 20-29                                      | 3,100  | 1,900     | 900                 | S                   | 100           | S                   |
| 30 or more                                 | 800    | 800       | S                   | S                   | S             | S                   |
| Male                                       | 30,800 | 13,700    | 8,400               | 6,000               | 1,100         | 1,600               |
| Fewer than 10                              | 10,000 | 500       | 2,700               | 5,400               | 500           | 800                 |
| 10-19                                      | 7,300  | 2,700     | 3,800               | 300                 | 200           | 200                 |
| 20-29                                      | 7,900  | 5,900     | 1,300               | 200                 | S             | 400                 |
| 30 or more                                 | 5,600  | 4,500     | 500                 | S                   | 400           | 200                 |
| Engineer                                   | 27,800 | 10,900    | 5,600               | 5,600               | 600           | 5,000               |
| Female                                     | 3,300  | 500       | 500                 | 1,300               | 300           | 800                 |
| Fewer than 10                              | 2,400  | S         | 200                 | 1,200               | S             | 700                 |
| 10-19                                      | 700    | 400       | 300                 | S                   | S             | S                   |
| 20-29                                      | 100    | 100       | S                   | S                   | S             | S                   |
| 30 or more                                 | S      | S         | S                   | S                   | S             | S                   |
| Male                                       | 24,500 | 10,400    | 5,100               | 4,400               | 300           | 4,300               |
| Fewer than 10                              | 8,200  | 200       | 1,400               | 3,500               | S             | 3,100               |
| 10-19                                      | 6,500  | 3,000     | 2,300               | 700                 | S             | 400                 |
| 20-29                                      | 5,300  | 3,800     | 1,000               | S                   | S             | 400                 |
| 30 or more                                 | 4,400  | 3,400     | 400                 | S                   | S             | 400                 |

TABLE H-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

| Occupation, sex, and years since doctorate | Total  | Professor | Associate professor | Assistant professor | Other faculty | Rank not applicable |
|--|--------|-----------|---------------------|---------------------|---------------|---------------------|
| 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               |
| Fewer than 10                              | 2,700  | S         | S                   | 400                 | 200           | 2,100               |
| 10-19                                      | 1,700  | 200       | 200                 | 400                 | S             | 800                 |
| 20-29                                      | 1,300  | 1,100     | S                   | S                   | S             | S                   |
| 30 or more                                 | S      | S         | S                   | S                   | S             | S                   |
| Male                                       | 8,600  | 1,700     | 1,000               | 1,100               | 600           | 4,100               |
| Fewer than 10                              | 3,500  | S         | S                   | 700                 | 300           | 2,300               |
| 10-19                                      | 1,900  | 300       | 700                 | 200                 | S             | 600                 |
| 20-29                                      | 1,700  | 700       | 200                 | S                   | S             | 700                 |
| 30 or more                                 | 1,400  | 700       | S                   | S                   | S             | 500                 |
| 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               |
| Fewer than 10                              | 11,600 | 400       | 1,400               | 5,200               | 1,900         | 2,700               |
| 10-19                                      | 7,400  | 3,100     | 2,300               | 600                 | S             | 1,300               |
| 20-29                                      | 5,300  | 3,100     | 900                 | S                   | S             | 400                 |
| 30 or more                                 | 1,700  | 800       | S                   | S                   | S             | 800                 |
| Male                                       | 49,900 | 19,800    | 8,900               | 7,600               | 2,700         | 10,900              |
| Fewer than 10                              | 18,900 | 1,800     | 3,600               | 6,200               | 1,400         | 6,000               |
| 10-19                                      | 9,500  | 4,700     | 2,900               | 1,200               | 200           | 600                 |
| 20-29                                      | 11,900 | 6,800     | 2,000               | 200                 | 700           | 2,100               |
| 30 or more                                 | 9,600  | 6,500     | 400                 | S                   | 400           | 2,200               |

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding.

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                | With   |
|                                |         |         |         |                |        |        |          | Indian/<br>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-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

| Occupation, sex, 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               |
| Female                                     | 122,200 | 40,600  | 23,400          | 20,400              | 37,800                |
| Fewer than 10                              | 61,900  | 6,700   | 19,200          | 10,600              | 25,400                |
| 10-19                                      | 35,500  | 18,500  | 3,800           | 5,200               | 8,000                 |
| 20-29                                      | 18,500  | 11,300  | 400             | 3,400               | 3,500                 |
| 30 or more                                 | 6,300   | 4,000   | S               | 1,300               | 900                   |
| Male                                       | 263,000 | 128,500 | 42,900          | 28,000              | 63,600                |
| Fewer than 10                              | 92,400  | 12,600  | 31,800          | 12,200              | 35,800                |
| 10-19                                      | 65,400  | 38,300  | 8,800           | 7,300               | 11,100                |
| 20-29                                      | 57,000  | 41,100  | 1,800           | 4,700               | 9,300                 |
| 30 or more                                 | 48,100  | 36,500  | 400             | 3,800               | 7,400                 |
| S&E occupations                            | 294,800 | 132,400 | 51,900          | 36,300              | 74,300                |
| Female                                     | 90,400  | 30,000  | 18,200          | 14,500              | 27,700                |
| Fewer than 10                              | 47,600  | 5,700   | 14,500          | 7,700               | 19,800                |
| 10-19                                      | 26,500  | 13,200  | 3,300           | 4,600               | 5,300                 |
| 20-29                                      | 12,000  | 8,100   | 400             | 1,600               | 1,900                 |
| 30 or more                                 | 4,300   | 3,100   | S               | 600                 | 600                   |
| Male                                       | 204,400 | 102,400 | 33,700          | 21,800              | 46,600                |
| Fewer than 10                              | 70,000  | 9,300   | 24,500          | 10,100              | 26,100                |
| 10-19                                      | 54,000  | 31,400  | 7,400           | 6,000               | 9,200                 |
| 20-29                                      | 43,400  | 32,800  | 1,300           | 2,900               | 6,300                 |
| 30 or more                                 | 37,000  | 29,000  | 400             | 2,800               | 4,900                 |
| Scientist                                  | 267,100 | 117,900 | 46,400          | 34,300              | 68,600                |
| Female                                     | 87,100  | 29,200  | 17,000          | 14,300              | 26,700                |
| Fewer than 10                              | 45,200  | 5,500   | 13,400          | 7,500               | 18,900                |
| 10-19                                      | 25,700  | 12,600  | 3,300           | 4,600               | 5,300                 |
| 20-29                                      | 11,900  | 8,000   | 400             | 1,600               | 1,900                 |
| 30 or more                                 | 4,300   | 3,100   | S               | 600                 | 600                   |
| Male                                       | 180,000 | 88,700  | 29,400          | 20,000              | 41,900                |
| Fewer than 10                              | 61,800  | 8,000   | 21,400          | 9,000               | 23,400                |
| 10-19                                      | 47,500  | 26,700  | 6,500           | 5,700               | 8,600                 |
| 20-29                                      | 38,000  | 28,400  | 1,200           | 2,900               | 5,600                 |
| 30 or more                                 | 32,600  | 25,600  | 300             | 2,500               | 4,300                 |
| Biological/life scientist                  | 112,900 | 40,600  | 18,500          | 18,800              | 35,100                |
| Female                                     | 41,900  | 12,100  | 7,300           | 8,300               | 14,300                |
| Fewer than 10                              | 22,100  | 2,600   | 4,900           | 4,000               | 10,600                |
| 10-19                                      | 12,900  | 5,100   | 2,200           | 3,300               | 2,400                 |
| 20-29                                      | 5,200   | 3,200   | 200             | 800                 | 1,000                 |
| 30 or more                                 | 1,800   | 1,200   | S               | 300                 | 300                   |
| Male                                       | 71,000  | 28,500  | 11,200          | 10,500              | 20,800                |
| Fewer than 10                              | 25,300  | 1,800   | 6,200           | 4,100               | 13,300                |
| 10-19                                      | 20,200  | 8,000   | 4,300           | 3,600               | 4,300                 |
| 20-29                                      | 13,800  | 9,900   | 600             | 1,500               | 1,700                 |
| 30 or more                                 | 11,700  | 8,800   | S               | 1,200               | 1,500                 |
| Computer and information scientist         | 14,800  | 5,800   | 3,300           | 1,400               | 4,200                 |
| Female                                     | 2,400   | 600     | 700             | 300                 | 800                   |
| Fewer than 10                              | 1,600   | 100     | 700             | 100                 | 700                   |
| 10-19                                      | 400     | 300     | S               | S                   | S                     |
| 20-29                                      | 300     | 200     | S               | S                   | S                     |
| 30 or more                                 | S       | S       | S               | S                   | S                     |

TABLE H-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

| Occupation, sex, and years since doctorate | Total  | Tenured | Not tenured     |                     | Tenure not applicable |
|--|--------|---------|-----------------|---------------------|-----------------------|
|  |        |         | On tenure track | Not on tenure track |                       |
| Male                                       | 12,400 | 5,200   | 2,600           | 1,200               | 3,400                 |
| Fewer than 10                              | 5,800  | 800     | 2,200           | 700                 | 2,100                 |
| 10-19                                      | 3,100  | 1,700   | 300             | 300                 | 800                   |
| 20-29                                      | 2,200  | 1,600   | S               | S                   | 300                   |
| 30 or more                                 | 1,400  | 1,000   | S               | 100                 | S                     |
| Mathematical scientist                     | 23,500 | 12,600  | 3,900           | 2,000               | 5,000                 |
| Female                                     | 6,600  | 1,800   | 1,200           | 800                 | 2,900                 |
| Fewer than 10                              | 4,300  | 500     | 1,100           | 400                 | 2,400                 |
| 10-19                                      | 1,300  | 700     | S               | 200                 | 300                   |
| 20-29                                      | 700    | 500     | S               | S                   | S                     |
| 30 or more                                 | 200    | S       | S               | S                   | S                     |
| Male                                       | 17,000 | 10,800  | 2,700           | 1,300               | 2,200                 |
| Fewer than 10                              | 5,000  | 1,000   | 2,400           | 600                 | 1,000                 |
| 10-19                                      | 5,300  | 4,300   | 200             | 400                 | 400                   |
| 20-29                                      | 3,000  | 2,500   | S               | S                   | 400                   |
| 30 or more                                 | 3,700  | 3,000   | S               | S                   | 500                   |
| Physical scientist                         | 41,900 | 18,500  | 6,700           | 4,900               | 11,800                |
| Female                                     | 6,500  | 2,100   | 1,400           | 1,000               | 2,000                 |
| Fewer than 10                              | 3,100  | 200     | 1,000           | 600                 | 1,200                 |
| 10-19                                      | 2,200  | 1,200   | 400             | S                   | 500                   |
| 20-29                                      | 700    | 400     | S               | 100                 | 200                   |
| 30 or more                                 | 600    | 200     | S               | S                   | S                     |
| Male                                       | 35,400 | 16,400  | 5,300           | 3,900               | 9,800                 |
| Fewer than 10                              | 12,200 | 1,300   | 3,900           | 1,900               | 5,000                 |
| 10-19                                      | 8,800  | 5,000   | 1,300           | 600                 | 2,000                 |
| 20-29                                      | 7,100  | 4,800   | S               | 700                 | 1,500                 |
| 30 or more                                 | 7,300  | 5,300   | S               | 600                 | 1,300                 |
| Psychologist                               | 26,900 | 11,800  | 4,300           | 3,200               | 7,600                 |
| Female                                     | 13,500 | 4,500   | 2,500           | 2,000               | 4,500                 |
| Fewer than 10                              | 6,900  | 800     | 1,900           | 1,400               | 2,700                 |
| 10-19                                      | 3,900  | 1,700   | 500             | 400                 | 1,300                 |
| 20-29                                      | 1,900  | 1,200   | S               | 200                 | 300                   |
| 30 or more                                 | 800    | 700     | S               | S                   | S                     |
| Male                                       | 13,400 | 7,300   | 1,800           | 1,200               | 3,100                 |
| Fewer than 10                              | 3,500  | 500     | 1,600           | 400                 | 1,000                 |
| 10-19                                      | 2,900  | 1,700   | 100             | 400                 | 700                   |
| 20-29                                      | 4,000  | 2,600   | S               | 200                 | 1,100                 |
| 30 or more                                 | 3,000  | 2,600   | S               | S                   | 300                   |
| Social scientist                           | 47,000 | 28,500  | 9,600           | 3,900               | 4,900                 |
| Female                                     | 16,200 | 8,100   | 3,900           | 1,900               | 2,200                 |
| Fewer than 10                              | 7,300  | 1,200   | 3,700           | 1,000               | 1,300                 |
| 10-19                                      | 4,900  | 3,500   | 200             | 600                 | 600                   |
| 20-29                                      | 3,100  | 2,600   | S               | 300                 | 200                   |
| 30 or more                                 | 800    | 700     | S               | S                   | S                     |
| Male                                       | 30,800 | 20,400  | 5,700           | 2,000               | 2,700                 |
| Fewer than 10                              | 10,000 | 2,600   | 5,100           | 1,200               | 1,100                 |
| 10-19                                      | 7,300  | 6,000   | 400             | 300                 | 500                   |
| 20-29                                      | 7,900  | 7,000   | S               | 200                 | 500                   |
| 30 or more                                 | 5,600  | 4,700   | S               | 300                 | 600                   |
| Engineer                                   | 27,800 | 14,600  | 5,500           | 2,000               | 5,700                 |
| Female                                     | 3,300  | 900     | 1,200           | 200                 | 1,000                 |
| Fewer than 10                              | 2,400  | 200     | 1,100           | 200                 | 1,000                 |
| 10-19                                      | 700    | 600     | S               | S                   | S                     |

TABLE H-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

| Occupation, sex, and years since doctorate | Total  | Tenured | Not tenured     |                     | Tenure not applicable |
|--|--------|---------|-----------------|---------------------|-----------------------|
|  |        |         | On tenure track | Not on tenure track |                       |
| 20-29                                      | 100    | 100     | S               | S                   | S                     |
| 30 or more                                 | S      | S       | S               | S                   | S                     |
| Male                                       | 24,500 | 13,700  | 4,300           | 1,800               | 4,700                 |
| Fewer than 10                              | 8,200  | 1,300   | 3,200           | 1,100               | 2,700                 |
| 10-19                                      | 6,500  | 4,700   | 900             | 300                 | 600                   |
| 20-29                                      | 5,300  | 4,300   | 200             | S                   | 800                   |
| 30 or more                                 | 4,400  | 3,400   | S               | 300                 | 600                   |
| S&E related occupations                    | 14,500 | 2,300   | 1,000           | 3,200               | 8,100                 |
| Female                                     | 5,900  | 600     | 400             | 1,600               | 3,400                 |
| Fewer than 10                              | 2,700  | S       | 200             | 400                 | 2,000                 |
| 10-19                                      | 1,700  | 200     | S               | 300                 | 1,000                 |
| 20-29                                      | 1,300  | 200     | S               | S                   | 300                   |
| 30 or more                                 | S      | S       | S               | S                   | S                     |
| Male                                       | 8,600  | 1,700   | 600             | 1,600               | 4,700                 |
| Fewer than 10                              | 3,500  | S       | 300             | 700                 | 2,400                 |
| 10-19                                      | 1,900  | 300     | 300             | 200                 | 1,100                 |
| 20-29                                      | 1,700  | 600     | S               | 400                 | 700                   |
| 30 or more                                 | 1,400  | 700     | S               | 200                 | 500                   |
| Non-S&E occupations                        | 75,800 | 34,400  | 13,400          | 9,000               | 19,000                |
| Female                                     | 25,900 | 10,000  | 4,900           | 4,300               | 6,700                 |
| Fewer than 10                              | 11,600 | 1,000   | 4,500           | 2,500               | 3,500                 |
| 10-19                                      | 7,400  | 5,100   | 400             | 200                 | 1,700                 |
| 20-29                                      | 5,300  | 3,000   | S               | 900                 | 1,300                 |
| 30 or more                                 | 1,700  | 800     | S               | S                   | 200                   |
| Male                                       | 49,900 | 24,500  | 8,600           | 4,600               | 12,300                |
| Fewer than 10                              | 18,900 | 3,300   | 7,000           | 1,400               | 7,300                 |
| 10-19                                      | 9,500  | 6,600   | 1,000           | 1,100               | 800                   |
| 20-29                                      | 11,900 | 7,700   | 500             | 1,400               | 2,300                 |
| 30 or more                                 | 9,700  | 6,900   | S               | 800                 | 1,900                 |

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding.

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/<br>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<br>and age (years) | Race/ethnicity |         |           |                |         |         |          |                                      |                   |                    |
|---|----------------|---------|-----------|----------------|---------|---------|----------|--------------------------------------|-------------------|--------------------|
|   | Sex            |         |           | Race/ethnicity |         |         |          |                                      | Disability status |                    |
|   | Total          | Female  | Male      | White          | Asian   | Black   | Hispanic | American<br>Indian/<br>Alaska Native | No<br>disability  | With<br>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/<br>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/<br>Alaska Native | No disability | With disability   |  |
| Publications since 1998                           |                |           |           |                |           |         |          |                                   |               |                   |  |
| 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             |  |
| Patents since 1998                                |                |           |           |                |           |         |          |                                   |               |                   |  |
| 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-36. Demographic characteristics of employed scientists and engineers, by sex: 2003  
(Percent distribution)

| Demographic characteristic   | Both sexes | Female    | Male       |
|--|------------|-----------|------------|
| Employed scientists and engineers (number)   | 18,019,400 | 7,582,000 | 10,437,200 |
| Age in 2003 (years)  | 100.0      | 100.0     | 100.0      |
| 29 and younger   | 11.3       | 14.6      | 8.9        |
| 30-39  | 27.6       | 28.4      | 26.9       |
| 40-49  | 29.6       | 30.1      | 29.2       |
| 50 and older   | 31.6       | 26.9      | 35.0       |
| Race/ethnicity   |            |           |            |
| White  | 77.4       | 75.1      | 79.1       |
| Asian  | 9.6        | 9.3       | 9.7        |
| Black  | 5.8        | 7.7       | 4.3        |
| Hispanic   | 5.2        | 5.6       | 4.9        |
| American Indian/Alaska Native  | 0.4        | 0.5       | 0.4        |
| Other race/ethnicity <sup>a</sup>  | 1.6        | 1.8       | 1.5        |
| Disability status  |            |           |            |
| No disability  | 94.5       | 94.9      | 94.1       |
| With disability  | 5.5        | 5.1       | 5.9        |
| Marital status   |            |           |            |
| Married  | 75.2       | 68.8      | 79.9       |
| Widowed  | 1.0        | 1.6       | 0.6        |
| Separated  | 1.0        | 1.2       | 0.9        |
| Divorced   | 6.9        | 9.6       | 5.0        |
| Never married  | 15.8       | 18.8      | 13.5       |
| If married, spouse's employment status   |            |           |            |
| Employed   | 56.2       | 60.9      | 52.8       |
| Full time  | 46.3       | 57.0      | 38.5       |
| Part time  | 9.9        | 3.8       | 14.3       |
| Not employed   | 19.0       | 7.9       | 27.1       |
| If spouse is employed, field in which spouse's job required bachelor's in <sup>b</sup> |            |           |            |
| Engineering, computer sciences, or natural sciences                                    | 12.4       | 18.1      | 8.3        |
| Social sciences  | 6.4        | 5.7       | 6.8        |
| Other  | 22.7       | 21.0      | 24.0       |
| Children living in household   |            |           |            |
| No   | 48.4       | 50.4      | 46.9       |
| Yes  | 51.6       | 49.6      | 53.1       |
| Citizenship  |            |           |            |
| U.S. citizen   | 94.2       | 95.3      | 93.4       |
| Native   | 84.3       | 85.6      | 83.4       |
| Naturalized  | 9.9        | 9.7       | 10.0       |
| Non-U.S. citizen   | 5.8        | 4.7       | 6.6        |
| Permanent resident   | 4.1        | 3.6       | 4.4        |
| Temporary resident   | 1.7        | 1.1       | 2.2        |

<sup>a</sup> Includes Native Hawaiian/other Pacific Islander and multiple race.

<sup>b</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).

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/<br>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<br>required bachelor's in <sup>a</sup> |                       |         |         |         |         |         |         |        |         |        |        |        |          |        |        |                                   |        |       |
| Engineering, computer sciences, or<br>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/<br>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).

TABLE H-38. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2003

(Percent distribution)

| Demographic characteristic   | Total      |           |            | No disability |           |           | With disability |         |         |
|--|------------|-----------|------------|---------------|-----------|-----------|-----------------|---------|---------|
|  | Both sexes | Female    | Male       | Both sexes    | Female    | Male      | Both sexes      | Female  | Male    |
| Employed scientists and engineers (number)   | 18,019,400 | 7,582,200 | 10,437,200 | 17,022,100    | 7,195,800 | 9,826,200 | 997,300         | 386,400 | 610,900 |
| Age in 2003 (years)  | 100.0      | 100.0     | 100.0      | 100.0         | 100.0     | 100.0     | 100.0           | 100.0   | 100.0   |
| 29 and younger   | 11.3       | 14.6      | 8.9        | 11.7          | 15.0      | 9.3       | 5.0             | 7.5     | 3.4     |
| 30-39  | 27.6       | 28.4      | 26.9       | 28.4          | 29.2      | 27.8      | 12.9            | 13.8    | 12.3    |
| 40-49  | 29.6       | 30.1      | 29.2       | 29.7          | 29.8      | 29.5      | 27.7            | 34.5    | 23.4    |
| 50 and older   | 31.6       | 26.9      | 35.0       | 30.2          | 26.0      | 33.4      | 54.4            | 44.3    | 60.9    |
| Disability status  |            |           |            |               |           |           |                 |         |         |
| No disability  | 94.5       | 94.9      | 94.1       | 100.0         | 100.0     | 100.0     | S               | S       | S       |
| With disability  | 5.5        | 5.1       | 5.9        | S             | S         | S         | 100.0           | 100.0   | 100.0   |
| Race/ethnicity   |            |           |            |               |           |           |                 |         |         |
| White  | 77.4       | 75.1      | 79.1       | 77.5          | 75.4      | 79.0      | 76.2            | 69.1    | 80.8    |
| Asian  | 9.6        | 9.3       | 9.7        | 9.6           | 9.3       | 9.9       | 8.0             | 8.9     | 7.5     |
| Black  | 5.8        | 7.7       | 4.3        | 5.7           | 7.6       | 4.4       | 5.8             | 9.5     | 3.5     |
| Hispanic   | 5.2        | 5.6       | 4.9        | 5.2           | 5.6       | 4.9       | 5.7             | 7.0     | 4.9     |
| American Indian/Alaska Native  | 0.4        | 0.5       | 0.4        | 0.4           | 0.4       | 0.3       | 1.2             | 1.6     | 1.0     |
| Other race/ethnicity <sup>a</sup>  | 1.6        | 1.8       | 1.5        | 1.6           | 1.6       | 1.5       | 3.0             | 4.0     | 2.4     |
| Marital status   |            |           |            |               |           |           |                 |         |         |
| Married  | 75.2       | 68.8      | 79.9       | 75.3          | 69.1      | 79.9      | 73.9            | 62.3    | 81.1    |
| Widowed  | 1.0        | 1.6       | 0.6        | 1.0           | 1.6       | 0.6       | 1.5             | 2.9     | 0.6     |
| Separated  | 1.0        | 1.2       | 0.9        | 1.0           | 1.2       | 0.9       | 1.0             | 1.2     | 0.9     |
| Divorced   | 6.9        | 9.6       | 5.0        | 6.8           | 9.3       | 4.9       | 10.1            | 14.9    | 7.1     |
| Never married  | 15.8       | 18.8      | 13.5       | 15.9          | 18.8      | 13.7      | 13.5            | 18.7    | 10.3    |
| If married, spouse's employment status   |            |           |            |               |           |           |                 |         |         |
| Employed   | 56.2       | 60.9      | 52.8       | 56.3          | 61.3      | 52.6      | 54.4            | 52.2    | 55.8    |
| Full time  | 46.3       | 57.0      | 38.5       | 46.5          | 57.5      | 38.4      | 43.9            | 48.4    | 41.0    |
| Part time  | 9.9        | 3.8       | 14.3       | 9.8           | 3.8       | 14.2      | 10.5            | 3.8     | 14.8    |
| Not employed   | 19.0       | 7.9       | 27.1       | 19.0          | 7.8       | 27.3      | 19.5            | 10.2    | 25.4    |
| If spouse is employed, field in which spouse's job required bachelor's in <sup>b</sup> |            |           |            |               |           |           |                 |         |         |
| Engineering, computer sciences, or natural sciences                                    | 12.4       | 18.1      | 8.3        | 12.5          | 18.2      | 8.4       | 10.5            | 16.6    | 6.7     |
| Social sciences  | 6.4        | 5.7       | 6.8        | 6.3           | 5.7       | 6.8       | 6.6             | 5.7     | 7.1     |
| Other  | 22.7       | 21.0      | 24.0       | 22.7          | 21.0      | 23.9      | 23.7            | 20.5    | 25.7    |
| Children living in household   |            |           |            |               |           |           |                 |         |         |
| No   | 48.4       | 50.4      | 46.9       | 48.0          | 50.1      | 46.5      | 54.4            | 57.2    | 52.6    |
| Yes  | 51.6       | 49.6      | 53.1       | 52.0          | 49.9      | 53.5      | 45.6            | 42.8    | 47.4    |
| Citizenship  |            |           |            |               |           |           |                 |         |         |
| U.S. citizen   | 94.2       | 95.3      | 93.4       | 94.1          | 95.3      | 93.2      | 96.3            | 96.7    | 96.1    |
| Native   | 84.3       | 85.6      | 83.4       | 84.2          | 85.6      | 83.2      | 86.8            | 85.9    | 87.3    |
| Naturalized  | 9.9        | 9.7       | 10.0       | 9.9           | 9.7       | 10.1      | 9.6             | 10.9    | 8.7     |

TABLE H-38. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2003

(Percent distribution)

| Demographic characteristic | Total      |        |      | No disability |        |      | With disability |        |      |
|----------------------------|------------|--------|------|---------------|--------|------|-----------------|--------|------|
|                            | Both sexes | Female | Male | Both sexes    | Female | Male | Both sexes      | Female | Male |
| Non-U.S. citizen           | 5.8        | 4.7    | 6.6  | 5.9           | 4.7    | 6.8  | 3.7             | 3.3    | 3.9  |
| Permanent resident         | 4.1        | 3.6    | 4.4  | 4.1           | 3.6    | 4.5  | 2.7             | 2.8    | 2.7  |
| Temporary resident         | 1.7        | 1.1    | 2.2  | 1.8           | 1.1    | 2.2  | 1.0             | 0.5    | 1.3  |

S = suppressed because percent based on fewer than 50 weighted cases.

<sup>a</sup> Includes Native Hawaiian/other Pacific Islander and multiple race.

<sup>b</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).