# Graduate Students and Postdoctorates in Science and Engineering: Fall 2010

Detailed Statistical Tables | NSF 13-314 | April 2013

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## General Notes

Data presented here are derived from the annual National Science Foundation–National Institutes of Health Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Unless otherwise specified, data published here represent estimates of total graduate enrollment as of fall 2010 in science, engineering, and selected health fields in 13,711 graduate units (departments, research centers, degree-granting programs, and affiliate health facilities) at 574 academic institutions in the United States and outlying areas.

The survey was refined in 2007 to improve reporting: new fields were added, and some fields were reclassified. Because of these changes, the 2007 data are presented two ways in multiyear tables:

- "2007new" shows the data as they were collected using the new methodology.
- "2007old" shows the data as they would have been collected in prior years.

The 2010, 2009, and 2008 data are comparable with "2007new" data.

Beginning in 2008, the tables that provide data by institutions no longer list names of the nonresponding institutions, although their data are imputed and included in the totals for all institutions.

In 2010, two notable changes were introduced in the survey as part of the additional emphasis placed on postdoctoral appointees (postdocs) and other doctorate-holding nonfaculty researchers (NFRs). First, the GSS added several new items and expanded existing items for enumerating postdocs and NFRs. Second, the schools were requested to designate a postdoc coordinator (PC) to assist in reporting data about postdocs and NFRs separate from the school coordinator (SC) who was responsible for reporting data on graduate students.

Collection of these graduate enrollment and postdoc data began in 1966, and the survey has been modified periodically since then. Appendix A, "Technical Notes," provides more detailed information on the survey over the years. The latest data for prior years are published in this report; only these data should be used in historical analyses.

Data from the GSS fall 1972 through fall 2010 are also available in public-use files and from the WebCASPAR system at https://ncsesdata.nsf.gov/webcaspar/

## Data Tables


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3 engineering

4 female, in science, engineering, and health fields: 1977–2010

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6 female: 1977–2010

7 U.S. citizens and permanent residents: 1980–2010

8 with temporary visas: 1980–2010

**Graduate students in all institutions: 2004–10**

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10 female

11 full-time

12 first-time, full-time

by citizenship, ethnicity, and race of U.S. citizens and permanent residents

13 total

14 female

15 full-time

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16 total

17 at public institutions

full- and part-time enrolled

18 by citizenship, ethnicity, and race of U.S. citizens and permanent residents

full-time enrolled

19 by field and primary source of support

20 by field and primary mechanism of support

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49 degree type, by primary mechanism of support and field
50 origin of doctoral degree and citizenship, ethnicity, and race of U.S. citizens and permanent residents, by field

TABLE 1. Graduate students in science, engineering, and health in all institutions, by field: 1975–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1975 | 328,510 | 302,981 | 234,649 | 68,332 | 25,529 | 5,590 | 19,939 |
| 1976 | 333,716 | 305,398 | 238,675 | 66,723 | 28,318 | 6,055 | 22,263 |
| 1977 | 345,374 | 311,689 | 242,932 | 68,757 | 33,685 | 6,240 | 27,445 |
| 1978[b] | 339,912 | 304,252 | 236,465 | 67,787 | 35,660 | 7,194 | 28,466 |
| 1979 | 357,578 | 319,043 | 247,235 | 71,808 | 38,535 | 8,054 | 30,481 |
| 1980 | 367,078 | 325,600 | 251,265 | 74,335 | 41,478 | 8,751 | 32,727 |
| 1981 | 375,130 | 331,989 | 252,404 | 79,585 | 43,141 | 8,771 | 34,370 |
| 1982 | 382,291 | 338,866 | 255,146 | 83,720 | 43,425 | 8,561 | 34,864 |
| 1983 | 390,432 | 346,966 | 255,820 | 91,146 | 43,466 | 8,481 | 34,985 |
| 1984 | 394,670 | 349,642 | 256,903 | 92,739 | 45,028 | 8,630 | 36,398 |
| 1985 | 404,021 | 357,991 | 261,973 | 96,018 | 46,030 | 9,198 | 36,832 |
| 1986 | 415,520 | 367,982 | 266,077 | 101,905 | 47,538 | 9,227 | 38,311 |
| 1987 | 421,497 | 373,239 | 269,256 | 103,983 | 48,258 | 9,773 | 38,485 |
| 1988 | 424,523 | 375,163 | 272,309 | 102,854 | 49,360 | 10,071 | 39,289 |
| 1989 | 434,478 | 382,642 | 278,577 | 104,065 | 51,836 | 10,200 | 41,636 |
| 1990 | 452,113 | 397,041 | 289,383 | 107,658 | 55,072 | 10,943 | 44,129 |
| 1991 | 471,212 | 412,592 | 299,057 | 113,535 | 58,620 | 11,696 | 46,924 |
| 1992 | 493,522 | 430,517 | 312,478 | 118,039 | 63,005 | 12,597 | 50,408 |
| 1993 | 504,304 | 435,723 | 318,851 | 116,872 | 68,581 | 14,213 | 54,368 |
| 1994 | 504,399 | 431,142 | 318,118 | 113,024 | 73,257 | 15,037 | 58,220 |
| 1995 | 499,640 | 422,466 | 315,265 | 107,201 | 77,174 | 15,538 | 61,636 |
| 1996 | 494,079 | 415,181 | 311,957 | 103,224 | 78,898 | 15,363 | 63,535 |
| 1997 | 487,208 | 407,630 | 306,482 | 101,148 | 79,578 | 15,470 | 64,108 |
| 1998 | 485,627 | 404,856 | 304,818 | 100,038 | 80,771 | 16,643 | 64,128 |
| 1999 | 493,256 | 411,182 | 309,491 | 101,691 | 82,074 | 17,276 | 64,798 |
| 2000 | 493,311 | 413,536 | 309,424 | 104,112 | 79,775 | 16,407 | 63,368 |
| 2001 | 509,607 | 429,229 | 319,736 | 109,493 | 80,378 | 17,363 | 63,015 |
| 2002 | 540,404 | 454,834 | 335,166 | 119,668 | 85,570 | 19,166 | 66,404 |
| 2003 | 567,121 | 474,645 | 347,268 | 127,377 | 92,476 | 20,574 | 71,902 |
| 2004 | 574,463 | 475,873 | 352,307 | 123,566 | 98,590 | 20,866 | 77,724 |
| 2005 | 582,226 | 478,275 | 357,710 | 120,565 | 103,951 | 21,414 | 82,537 |
| 2006 | 597,643 | 486,287 | 363,246 | 123,041 | 111,356 | 23,441 | 87,915 |
| 2007old[c] | 607,823 | 502,375 | 372,120 | 130,255 | 105,448 | 24,616 | 80,832 |
| 2007new[c] | 619,499 | 516,199 | 384,523 | 131,676 | 103,300 | 22,751 | 80,549 |
| 2008 | 631,489 | 529,275 | 391,419 | 137,856 | 102,214 | 23,939 | 78,275 |
| 2009 | 631,645 | 545,685 | 401,008 | 144,677 | 85,960 | 24,125 | 61,835 |
| 2010 | 632,652 | 556,532 | 407,291 | 149,241 | 76,120 | 25,699 | 50,421 |

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 2. Graduate students in science in all institutions, by science field: 1975–2010

| Year | Total | Agricultural sciences | Biological sciences | Communication[a] | Computer sciences | Earth, atmospheric, and ocean sciences | Family and consumer sciences/ human sciences[a] | Mathematical sciences | Multidisciplinary/ interdisciplinary studies[a] | Neuroscience[a] | Physical sciences | Psychology[b] | Social sciences |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1975 | 234,649 | 10,804 | 46,185 | ne | 8,415 | 12,079 | ne | 16,892 | ne | na | 26,310 | 36,191 | 77,773 |
| 1976 | 238,675 | 11,427 | 47,453 | ne | 8,627 | 12,809 | ne | 17,071 | ne | na | 26,641 | 37,458 | 77,189 |
| 1977 | 242,932 | 11,812 | 48,975 | ne | 9,108 | 13,446 | ne | 16,052 | ne | na | 26,864 | 38,617 | 78,058 |
| 1978[c] | 236,465 | 11,981 | 47,665 | ne | 9,847 | 13,268 | ne | 14,812 | ne | na | 26,282 | 37,522 | 75,088 |
| 1979 | 247,235 | 12,365 | 47,932 | ne | 11,690 | 13,731 | ne | 15,031 | ne | na | 26,701 | 39,766 | 80,019 |
| 1980 | 251,265 | 12,689 | 47,261 | ne | 13,578 | 14,051 | ne | 15,311 | ne | na | 26,934 | 40,610 | 80,831 |
| 1981 | 252,404 | 12,585 | 46,302 | ne | 16,437 | 14,263 | ne | 15,881 | ne | na | 27,360 | 40,666 | 78,910 |
| 1982 | 255,146 | 12,826 | 45,627 | ne | 19,812 | 15,018 | ne | 17,157 | ne | na | 28,188 | 40,073 | 76,445 |
| 1983 | 255,820 | 12,728 | 45,253 | ne | 23,333 | 15,443 | ne | 17,358 | ne | na | 29,463 | 40,905 | 71,337 |
| 1984 | 256,903 | 12,528 | 45,353 | ne | 25,526 | 15,500 | ne | 17,443 | ne | na | 30,061 | 40,931 | 69,561 |
| 1985 | 261,973 | 11,846 | 45,709 | ne | 29,769 | 15,414 | ne | 17,563 | ne | na | 30,987 | 40,721 | 69,964 |
| 1986 | 266,077 | 11,771 | 46,302 | ne | 31,349 | 15,053 | ne | 17,949 | ne | na | 32,259 | 41,241 | 70,153 |
| 1987 | 269,256 | 11,405 | 46,317 | ne | 32,051 | 14,357 | ne | 18,508 | ne | na | 32,741 | 42,612 | 71,265 |
| 1988 | 272,309 | 11,438 | 47,126 | ne | 32,227 | 13,854 | ne | 19,077 | ne | na | 32,975 | 43,963 | 71,649 |
| 1989 | 278,577 | 11,461 | 48,449 | ne | 32,482 | 13,630 | ne | 19,247 | ne | na | 33,629 | 45,528 | 74,151 |
| 1990 | 289,383 | 11,563 | 49,602 | ne | 34,257 | 13,977 | ne | 19,774 | ne | na | 34,082 | 48,167 | 77,961 |
| 1991 | 299,057 | 11,766 | 51,365 | ne | 34,681 | 14,466 | ne | 19,952 | ne | na | 34,724 | 51,343 | 80,760 |
| 1992 | 312,478 | 12,153 | 53,693 | ne | 36,325 | 15,324 | ne | 20,355 | ne | na | 35,357 | 53,484 | 85,787 |
| 1993 | 318,851 | 12,305 | 55,950 | ne | 36,213 | 15,721 | ne | 20,000 | ne | na | 35,328 | 54,557 | 88,777 |
| 1994 | 318,118 | 12,611 | 57,676 | ne | 34,158 | 15,957 | ne | 19,573 | ne | na | 34,466 | 54,554 | 89,123 |
| 1995 | 315,265 | 12,768 | 58,344 | ne | 33,458 | 15,716 | ne | 18,504 | ne | na | 33,399 | 53,641 | 89,435 |
| 1996 | 311,957 | 12,301 | 57,749 | ne | 34,626 | 15,183 | ne | 18,008 | ne | na | 32,333 | 53,122 | 88,635 |
| 1997 | 306,482 | 12,203 | 56,705 | ne | 35,991 | 14,548 | ne | 16,719 | ne | na | 31,105 | 53,126 | 86,085 |
| 1998 | 304,818 | 12,168 | 56,695 | ne | 38,027 | 14,258 | ne | 16,485 | ne | na | 30,575 | 52,557 | 84,053 |
| 1999 | 309,491 | 12,312 | 56,959 | ne | 42,478 | 14,083 | ne | 16,257 | ne | na | 30,691 | 51,727 | 84,984 |
| 2000 | 309,424 | 12,023 | 56,282 | ne | 47,350 | 13,941 | ne | 15,650 | ne | na | 30,385 | 50,466 | 83,327 |
| 2001 | 319,736 | 12,235 | 57,639 | ne | 52,196 | 13,841 | ne | 16,651 | ne | na | 31,038 | 50,454 | 85,682 |
| 2002 | 335,166 | 12,698 | 61,088 | ne | 55,269 | 14,240 | ne | 18,163 | ne | na | 32,341 | 51,152 | 90,215 |
| 2003 | 347,268 | 13,197 | 64,701 | ne | 53,696 | 14,620 | ne | 19,465 | ne | na | 34,298 | 52,162 | 95,129 |
| 2004 | 352,307 | 13,445 | 66,565 | ne | 50,016 | 15,131 | ne | 19,931 | ne | na | 35,761 | 54,126 | 97,332 |
| 2005 | 357,710 | 13,123 | 68,479 | ne | 47,978 | 14,836 | ne | 20,210 | ne | na | 36,375 | 57,282 | 99,427 |
| 2006 | 363,246 | 13,016 | 69,941 | ne | 47,653 | 14,920 | ne | 20,815 | ne | na | 36,901 | 57,653 | 102,347 |
| 2007old[a] | 372,120 | 13,222 | 71,663 | ne | 48,959 | 14,675 | ne | 21,335 | ne | na | 37,111 | 60,284 | 104,871 |
| 2007new[a] | 384,523 | 13,528 | 71,932 | 7,303 | 48,246 | 14,100 | 2,780 | 20,975 | 4,484 | 1,584 | 36,824 | 59,617 | 103,150 |

TABLE 2. Graduate students in science in all institutions, by science field: 1975–2010

| Year | Total | Agricultural sciences | Biological sciences | Communication[a] | Computer sciences | Earth, atmospheric, and ocean sciences | Family and consumer sciences/ human sciences[a] | Mathematical sciences | Multidisciplinary/ interdisciplinary studies[a] | Neuroscience[a] | Physical sciences | Psychology[b] | Social sciences |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008 | 391,419 | 14,153 | 72,666 | 8,444 | 49,553 | 14,389 | 3,549 | 21,400 | 5,559 | 2,012 | 37,319 | 58,991 | 103,384 |
| 2009 | 401,008 | 15,200 | 73,304 | 9,418 | 51,161 | 14,839 | 3,794 | 22,226 | 6,557 | 2,356 | 38,149 | 56,184 | 107,820 |
| 2010 | 407,291 | 15,656 | 74,928 | 9,825 | 51,546 | 15,655 | 4,191 | 23,136 | 7,944 | 2,798 | 38,973 | 53,419 | 109,220 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[c] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 3. Graduate students in engineering in all institutions, by engineering field: 1975–2010

| Year | Total | Aerospace engineering | Agricultural engineering | Architecture[a] | Biomedical engineering | Chemical engineering | Civil engineering[a] | Electrical engineering | Engineering science | Industrial engineering | Mechanical engineering | Metal-lurgical/ materials engineering | Mining engineer-ing | Nuclear engineering | Petroleum engineering | Engineer-ing, nec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1975 | 68,332 | 1,670 | 631 | na | 883 | 5,095 | 12,560 | 16,320 | 1,746 | 11,663 | 8,601 | 2,376 | 412 | 1,636 | 302 | 4,437 |
| 1976 | 66,723 | 1,477 | 690 | na | 895 | 5,271 | 11,995 | 15,926 | 1,759 | 10,687 | 8,313 | 2,398 | 515 | 1,600 | 376 | 4,821 |
| 1977 | 68,757 | 1,518 | 754 | na | 855 | 5,273 | 12,335 | 17,406 | 1,737 | 10,438 | 8,722 | 2,585 | 452 | 1,491 | 379 | 4,812 |
| 1978[b] | 67,787 | 1,463 | 788 | na | 920 | 5,431 | 12,358 | 17,127 | 1,844 | 9,494 | 8,638 | 2,592 | 416 | 1,404 | 428 | 4,884 |
| 1979 | 71,808 | 1,481 | 787 | na | 1,004 | 5,685 | 12,822 | 17,715 | 1,681 | 10,729 | 9,251 | 2,778 | 389 | 1,318 | 424 | 5,744 |
| 1980 | 74,335 | 1,737 | 789 | na | 964 | 6,038 | 13,097 | 19,132 | 1,796 | 9,698 | 9,888 | 2,934 | 413 | 1,241 | 503 | 6,105 |
| 1981 | 79,585 | 1,883 | 842 | na | 1,017 | 6,526 | 14,089 | 20,113 | 1,965 | 9,737 | 10,618 | 3,152 | 462 | 1,283 | 521 | 7,377 |
| 1982 | 83,720 | 1,941 | 911 | na | 1,085 | 7,222 | 14,122 | 21,927 | 2,130 | 9,577 | 11,467 | 3,154 | 449 | 1,301 | 586 | 7,848 |
| 1983 | 91,146 | 2,305 | 1,001 | na | 1,220 | 7,590 | 14,910 | 25,295 | 2,261 | 9,247 | 12,911 | 3,477 | 524 | 1,203 | 737 | 8,465 |
| 1984 | 92,739 | 2,340 | 989 | na | 1,315 | 7,400 | 15,192 | 26,388 | 2,153 | 9,282 | 13,855 | 3,673 | 502 | 1,234 | 744 | 7,672 |
| 1985 | 96,018 | 2,538 | 983 | na | 1,335 | 7,177 | 14,902 | 28,203 | 2,098 | 10,525 | 14,157 | 3,959 | 489 | 1,220 | 782 | 7,650 |
| 1986 | 101,905 | 2,804 | 1,118 | na | 1,487 | 7,043 | 14,976 | 29,969 | 2,362 | 11,569 | 15,713 | 4,236 | 512 | 1,265 | 747 | 8,104 |
| 1987 | 103,983 | 3,015 | 1,126 | na | 1,628 | 7,141 | 14,682 | 31,399 | 2,343 | 12,353 | 16,366 | 4,397 | 513 | 1,279 | 818 | 6,923 |
| 1988 | 102,854 | 3,223 | 1,096 | na | 1,708 | 6,643 | 14,811 | 32,035 | 2,386 | 11,575 | 16,151 | 4,381 | 489 | 1,303 | 742 | 6,311 |
| 1989 | 104,065 | 3,524 | 1,092 | na | 1,867 | 6,482 | 14,909 | 33,257 | 2,077 | 11,333 | 16,265 | 4,635 | 418 | 1,323 | 665 | 6,218 |
| 1990 | 107,658 | 3,934 | 985 | na | 2,097 | 6,768 | 15,542 | 33,722 | 2,020 | 11,555 | 16,879 | 4,983 | 437 | 1,278 | 670 | 6,788 |
| 1991 | 113,535 | 4,120 | 1,023 | na | 2,199 | 7,157 | 17,398 | 35,111 | 2,154 | 12,996 | 17,730 | 5,203 | 489 | 1,282 | 705 | 5,968 |
| 1992 | 118,039 | 4,036 | 1,053 | na | 2,492 | 7,433 | 19,572 | 36,428 | 2,218 | 13,826 | 18,637 | 5,550 | 437 | 1,286 | 737 | 4,334 |
| 1993 | 116,872 | 3,940 | 1,053 | na | 2,640 | 7,554 | 19,583 | 35,290 | 2,180 | 13,905 | 18,477 | 5,410 | 427 | 1,306 | 725 | 4,382 |
| 1994 | 113,024 | 3,715 | 1,095 | na | 2,716 | 7,639 | 19,925 | 33,067 | 2,089 | 13,992 | 17,761 | 5,228 | 424 | 1,246 | 624 | 3,503 |
| 1995 | 107,201 | 3,343 | 1,076 | na | 2,693 | 7,452 | 19,218 | 30,861 | 1,955 | 13,475 | 16,363 | 4,956 | 373 | 1,154 | 610 | 3,672 |
| 1996 | 103,224 | 3,208 | 1,055 | na | 2,689 | 7,408 | 18,528 | 29,941 | 1,751 | 12,675 | 15,509 | 4,747 | 371 | 980 | 562 | 3,800 |
| 1997 | 101,148 | 3,083 | 991 | na | 2,797 | 7,288 | 17,193 | 30,787 | 1,647 | 11,957 | 15,045 | 4,688 | 348 | 868 | 561 | 3,895 |
| 1998 | 100,038 | 3,137 | 975 | na | 2,855 | 7,093 | 16,517 | 31,384 | 1,701 | 11,221 | 14,696 | 4,680 | 304 | 821 | 571 | 4,083 |
| 1999 | 101,691 | 3,349 | 986 | na | 3,069 | 6,883 | 16,226 | 31,822 | 1,627 | 11,803 | 14,956 | 4,481 | 328 | 830 | 642 | 4,689 |
| 2000 | 104,112 | 3,407 | 943 | na | 3,197 | 7,056 | 16,451 | 33,611 | 1,632 | 12,119 | 15,235 | 4,377 | 287 | 792 | 627 | 4,378 |
| 2001 | 109,493 | 3,451 | 947 | na | 3,599 | 6,913 | 16,665 | 36,100 | 1,798 | 12,940 | 15,852 | 4,721 | 240 | 801 | 656 | 4,810 |
| 2002 | 119,668 | 3,685 | 952 | na | 4,338 | 7,414 | 17,713 | 39,948 | 2,121 | 14,033 | 17,139 | 4,992 | 267 | 795 | 766 | 5,505 |
| 2003 | 127,377 | 4,048 | 1,058 | na | 5,301 | 7,516 | 18,890 | 41,763 | 2,240 | 14,313 | 18,393 | 5,131 | 278 | 885 | 849 | 6,712 |
| 2004 | 123,566 | 4,089 | 1,041 | na | 5,807 | 7,452 | 18,561 | 38,995 | 2,198 | 13,852 | 17,852 | 5,059 | 308 | 971 | 845 | 6,536 |
| 2005 | 120,565 | 4,170 | 1,059 | na | 6,067 | 7,173 | 18,114 | 37,450 | 1,951 | 13,650 | 17,373 | 5,160 | 279 | 1,013 | 808 | 6,298 |
| 2006 | 123,041 | 4,482 | 1,073 | na | 6,482 | 7,261 | 17,802 | 38,265 | 2,046 | 13,829 | 17,919 | 5,268 | 244 | 1,099 | 813 | 6,458 |
| 2007old[a] | 130,255 | 4,616 | 1,126 | na | 6,881 | 7,383 | 19,867 | 40,207 | 1,843 | 14,290 | 18,366 | 5,365 | 307 | 1,208 | 1,014 | 7,782 |
| 2007new[a] | 131,676 | 4,616 | 1,126 | 4,601 | 6,904 | 7,584 | 16,071 | 40,588 | 1,806 | 14,474 | 18,347 | 5,314 | 222 | 1,180 | 1,014 | 7,829 |

TABLE 3. Graduate students in engineering in all institutions, by engineering field: 1975–2010

| Year | Total | Aerospace engineering | Agricultural engineering | Architecture[a] | Biomedical engineering | Chemical engineering | Civil engineering[a] | Electrical engineering | Engineering science | Industrial engineering | Mechanical engineering | Metal-lurgical/ materials engineering | Mining engineer-ing | Nuclear engineering | Petroleum engineering | Engineer-ing, nec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008 | 137,856 | 4,902 | 1,233 | 5,905 | 7,339 | 7,892 | 16,931 | 41,164 | 2,099 | 15,692 | 19,585 | 5,539 | 290 | 1,201 | 1,009 | 7,075 |
| 2009 | 144,677 | 5,266 | 1,303 | 6,804 | 7,904 | 8,188 | 18,638 | 41,218 | 2,168 | 15,825 | 21,243 | 5,863 | 312 | 1,243 | 1,190 | 7,512 |
| 2010 | 149,241 | 5,540 | 1,457 | 6,795 | 8,497 | 8,668 | 19,559 | 41,336 | 2,071 | 15,205 | 22,509 | 6,274 | 419 | 1,459 | 1,295 | 8,157 |

na = not applicable; data were not collected at this level of detail.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 4. Female graduate students in science, engineering, and health in all institutions, by field: 1977–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1977 | 100,450 | 77,914 | 74,208 | 3,706 | 22,536 | 2,665 | 19,871 |
| 1978 | NA | NA | NA | NA | NA | NA | NA |
| 1979 | 116,739 | 89,277 | 83,390 | 5,887 | 27,462 | 4,019 | 23,443 |
| 1980 | 124,122 | 94,393 | 88,053 | 6,340 | 29,729 | 4,392 | 25,337 |
| 1981 | 131,572 | 99,845 | 92,098 | 7,747 | 31,727 | 4,474 | 27,253 |
| 1982 | 135,993 | 103,569 | 94,792 | 8,777 | 32,424 | 4,539 | 27,885 |
| 1983 | 139,504 | 106,503 | 96,694 | 9,809 | 33,001 | 4,632 | 28,369 |
| 1984 | 142,017 | 107,530 | 97,231 | 10,299 | 34,487 | 4,889 | 29,598 |
| 1985 | 145,805 | 110,621 | 99,538 | 11,083 | 35,184 | 5,285 | 29,899 |
| 1986 | 150,787 | 114,375 | 102,002 | 12,373 | 36,412 | 5,180 | 31,232 |
| 1987 | 153,556 | 117,167 | 104,196 | 12,971 | 36,389 | 5,253 | 31,136 |
| 1988 | 159,133 | 121,238 | 108,110 | 13,128 | 37,895 | 5,658 | 32,237 |
| 1989 | 165,753 | 125,872 | 112,264 | 13,608 | 39,881 | 5,945 | 33,936 |
| 1990 | 176,441 | 133,722 | 119,043 | 14,679 | 42,719 | 6,282 | 36,437 |
| 1991 | 186,315 | 140,830 | 125,132 | 15,698 | 45,485 | 6,716 | 38,769 |
| 1992 | 199,300 | 150,212 | 132,992 | 17,220 | 49,088 | 7,305 | 41,783 |
| 1993 | 209,828 | 156,538 | 138,850 | 17,688 | 53,290 | 8,180 | 45,110 |
| 1994 | 216,044 | 159,111 | 141,061 | 18,050 | 56,933 | 8,668 | 48,265 |
| 1995 | 220,335 | 160,210 | 142,197 | 18,013 | 60,125 | 9,095 | 51,030 |
| 1996 | 222,419 | 161,671 | 143,417 | 18,254 | 60,748 | 8,749 | 51,999 |
| 1997 | 222,711 | 162,011 | 143,291 | 18,720 | 60,700 | 8,807 | 51,893 |
| 1998 | 224,608 | 163,427 | 144,439 | 18,988 | 61,181 | 9,721 | 51,460 |
| 1999 | 230,581 | 168,396 | 148,509 | 19,887 | 62,185 | 10,201 | 51,984 |
| 2000 | 231,202 | 170,479 | 149,733 | 20,746 | 60,723 | 9,910 | 50,813 |
| 2001 | 238,452 | 177,419 | 155,162 | 22,257 | 61,033 | 10,588 | 50,445 |
| 2002 | 253,345 | 188,617 | 163,650 | 24,967 | 64,728 | 11,775 | 52,953 |
| 2003 | 268,439 | 198,397 | 170,810 | 27,587 | 70,042 | 12,823 | 57,219 |
| 2004 | 277,749 | 201,865 | 174,593 | 27,272 | 75,884 | 13,471 | 62,413 |
| 2005 | 286,935 | 206,308 | 179,413 | 26,895 | 80,627 | 14,075 | 66,552 |
| 2006 | 297,825 | 211,106 | 183,162 | 27,944 | 86,719 | 15,533 | 71,186 |
| 2007old[b] | 299,671 | 218,295 | 188,321 | 29,974 | 81,376 | 16,306 | 65,070 |
| 2007new[b] | 307,490 | 227,273 | 196,801 | 30,472 | 80,217 | 15,350 | 64,867 |
| 2008 | 311,179 | 231,997 | 200,460 | 31,537 | 79,182 | 16,347 | 62,835 |
| 2009 | 303,120 | 237,749 | 204,431 | 33,318 | 65,371 | 16,445 | 48,926 |
| 2010 | 297,171 | 240,481 | 206,028 | 34,453 | 56,690 | 17,857 | 38,833 |

NA = not available; master's-granting institutions were not surveyed in 1978, and survey of doctorate-granting institutions did not collect data by sex.

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 5. Full-time graduate students in science, engineering, and health in all institutions, by field: 1975–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1975 | 219,648 | 202,260 | 164,437 | 37,823 | 17,388 | 4,560 | 12,828 |
| 1976 | 223,412 | 204,815 | 167,867 | 36,948 | 18,597 | 4,573 | 14,024 |
| 1977 | 226,738 | 206,411 | 169,184 | 37,227 | 20,327 | 4,345 | 15,982 |
| 1978[b] | 223,030 | 201,737 | 164,151 | 37,586 | 21,293 | 5,029 | 16,264 |
| 1979 | 231,760 | 209,000 | 168,959 | 40,041 | 22,760 | 5,527 | 17,233 |
| 1980 | 238,416 | 214,417 | 171,767 | 42,650 | 23,999 | 5,774 | 18,225 |
| 1981 | 242,049 | 217,952 | 172,200 | 45,752 | 24,097 | 5,622 | 18,475 |
| 1982 | 244,757 | 221,874 | 172,090 | 49,784 | 22,883 | 5,283 | 17,600 |
| 1983 | 252,017 | 229,404 | 175,472 | 53,932 | 22,613 | 5,318 | 17,295 |
| 1984 | 253,922 | 230,957 | 175,766 | 55,191 | 22,965 | 5,263 | 17,702 |
| 1985 | 257,287 | 233,938 | 178,020 | 55,918 | 23,349 | 5,525 | 17,824 |
| 1986 | 266,168 | 242,729 | 182,532 | 60,197 | 23,439 | 5,554 | 17,885 |
| 1987 | 271,056 | 247,105 | 185,143 | 61,962 | 23,951 | 5,833 | 18,118 |
| 1988 | 275,127 | 250,557 | 187,525 | 63,032 | 24,570 | 6,198 | 18,372 |
| 1989 | 282,648 | 256,820 | 192,424 | 64,396 | 25,828 | 6,433 | 19,395 |
| 1990 | 292,782 | 265,323 | 199,313 | 66,010 | 27,459 | 6,901 | 20,558 |
| 1991 | 307,010 | 277,070 | 206,036 | 71,034 | 29,940 | 7,223 | 22,717 |
| 1992 | 322,555 | 290,408 | 215,965 | 74,443 | 32,147 | 7,953 | 24,194 |
| 1993 | 329,644 | 293,905 | 220,097 | 73,808 | 35,739 | 8,833 | 26,906 |
| 1994 | 332,088 | 292,979 | 221,409 | 71,570 | 39,109 | 9,226 | 29,883 |
| 1995 | 329,283 | 287,171 | 219,389 | 67,782 | 42,112 | 9,777 | 32,335 |
| 1996 | 328,536 | 284,039 | 218,180 | 65,859 | 44,497 | 9,803 | 34,694 |
| 1997 | 327,289 | 280,669 | 214,981 | 65,688 | 46,620 | 10,212 | 36,408 |
| 1998 | 327,389 | 278,943 | 213,508 | 65,435 | 48,446 | 10,944 | 37,502 |
| 1999 | 334,423 | 283,893 | 215,870 | 68,023 | 50,530 | 11,554 | 38,976 |
| 2000 | 341,283 | 291,355 | 219,079 | 72,276 | 49,928 | 11,029 | 38,899 |
| 2001 | 354,522 | 304,021 | 226,573 | 77,448 | 50,501 | 11,822 | 38,679 |
| 2002 | 378,991 | 325,472 | 240,020 | 85,452 | 53,519 | 13,334 | 40,185 |
| 2003 | 397,420 | 339,028 | 248,812 | 90,216 | 58,392 | 14,742 | 43,650 |
| 2004 | 402,573 | 340,529 | 253,574 | 86,955 | 62,044 | 14,999 | 47,045 |
| 2005 | 406,620 | 341,742 | 257,283 | 84,459 | 64,878 | 15,102 | 49,776 |
| 2006 | 419,015 | 349,802 | 261,984 | 87,818 | 69,213 | 16,567 | 52,646 |
| 2007old[c] | 430,860 | 362,976 | 269,821 | 93,155 | 67,884 | 17,451 | 50,433 |
| 2007new[c] | 437,365 | 371,542 | 277,229 | 94,313 | 65,823 | 15,478 | 50,345 |
| 2008 | 449,613 | 383,560 | 285,305 | 98,255 | 66,053 | 16,965 | 49,088 |
| 2009 | 456,115 | 398,498 | 293,561 | 104,937 | 57,617 | 16,725 | 40,892 |
| 2010 | 461,185 | 409,107 | 299,315 | 109,792 | 52,078 | 17,704 | 34,374 |

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 6. Female, full-time graduate students in science, engineering, and health in all institutions, by field: 1977–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1977 | 64,853 | 52,046 | 49,783 | 2,263 | 12,807 | 1,783 | 11,024 |
| 1978 | NA | NA | NA | NA | NA | NA | NA |
| 1979 | 72,185 | 57,055 | 53,614 | 3,441 | 15,130 | 2,656 | 12,474 |
| 1980 | 77,557 | 61,316 | 57,461 | 3,855 | 16,241 | 2,806 | 13,435 |
| 1981 | 80,573 | 63,918 | 59,304 | 4,614 | 16,655 | 2,772 | 13,883 |
| 1982 | 81,484 | 65,505 | 60,256 | 5,249 | 15,979 | 2,681 | 13,298 |
| 1983 | 83,802 | 67,898 | 62,277 | 5,621 | 15,904 | 2,716 | 13,188 |
| 1984 | 84,848 | 68,589 | 62,540 | 6,049 | 16,259 | 2,839 | 13,420 |
| 1985 | 86,342 | 69,776 | 63,492 | 6,284 | 16,566 | 3,031 | 13,535 |
| 1986 | 89,592 | 72,917 | 65,939 | 6,978 | 16,675 | 2,941 | 13,734 |
| 1987 | 91,626 | 75,028 | 67,737 | 7,291 | 16,598 | 2,928 | 13,670 |
| 1988 | 95,572 | 78,277 | 70,654 | 7,623 | 17,295 | 3,233 | 14,062 |
| 1989 | 99,863 | 81,773 | 73,629 | 8,144 | 18,090 | 3,475 | 14,615 |
| 1990 | 106,063 | 86,678 | 77,973 | 8,705 | 19,385 | 3,671 | 15,714 |
| 1991 | 113,471 | 92,050 | 82,372 | 9,678 | 21,421 | 3,884 | 17,537 |
| 1992 | 121,737 | 98,686 | 88,025 | 10,661 | 23,051 | 4,376 | 18,675 |
| 1993 | 128,866 | 103,120 | 91,923 | 11,197 | 25,746 | 4,857 | 20,889 |
| 1994 | 134,663 | 106,356 | 94,778 | 11,578 | 28,307 | 5,079 | 23,228 |
| 1995 | 138,083 | 107,401 | 95,899 | 11,502 | 30,682 | 5,546 | 25,136 |
| 1996 | 141,420 | 109,350 | 97,523 | 11,827 | 32,070 | 5,426 | 26,644 |
| 1997 | 143,897 | 110,501 | 97,993 | 12,508 | 33,396 | 5,624 | 27,772 |
| 1998 | 146,396 | 111,623 | 98,796 | 12,827 | 34,773 | 6,183 | 28,590 |
| 1999 | 151,483 | 114,838 | 101,315 | 13,523 | 36,645 | 6,719 | 29,926 |
| 2000 | 155,022 | 118,572 | 103,720 | 14,852 | 36,450 | 6,509 | 29,941 |
| 2001 | 161,057 | 124,158 | 107,965 | 16,193 | 36,899 | 7,038 | 29,861 |
| 2002 | 172,839 | 133,663 | 115,246 | 18,417 | 39,176 | 8,005 | 31,171 |
| 2003 | 183,379 | 140,543 | 120,467 | 20,076 | 42,836 | 9,020 | 33,816 |
| 2004 | 189,743 | 143,708 | 123,889 | 19,819 | 46,035 | 9,443 | 36,592 |
| 2005 | 194,775 | 146,078 | 126,606 | 19,472 | 48,697 | 9,724 | 38,973 |
| 2006 | 202,199 | 150,151 | 129,469 | 20,682 | 52,048 | 10,760 | 41,288 |
| 2007old[b] | 206,848 | 156,096 | 133,929 | 22,167 | 50,752 | 11,240 | 39,512 |
| 2007new[b] | 211,167 | 161,545 | 138,944 | 22,601 | 49,622 | 10,169 | 39,453 |
| 2008 | 217,162 | 167,106 | 143,480 | 23,626 | 50,056 | 11,500 | 38,556 |
| 2009 | 215,551 | 172,490 | 147,071 | 25,419 | 43,061 | 11,337 | 31,724 |
| 2010 | 213,874 | 175,481 | 148,831 | 26,650 | 38,393 | 12,211 | 26,182 |

NA = not available; master's-granting institutions were not surveyed in 1978, and survey of doctorate-granting institutions did not collect data by sex.

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 7. U.S. citizen and permanent resident, full-time graduate students in science, engineering, and health in all institutions, by field: 1980–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1980 | 188,114 | 166,158 | 141,405 | 24,753 | 21,956 | 5,075 | 16,881 |
| 1981 | 187,574 | 165,623 | 139,558 | 26,065 | 21,951 | 4,917 | 17,034 |
| 1982 | 187,290 | 166,705 | 138,209 | 28,496 | 20,585 | 4,437 | 16,148 |
| 1983 | 190,091 | 169,889 | 138,714 | 31,175 | 20,202 | 4,411 | 15,791 |
| 1984 | 190,477 | 169,870 | 137,903 | 31,967 | 20,607 | 4,456 | 16,151 |
| 1985 | 189,043 | 168,239 | 136,402 | 31,837 | 20,804 | 4,513 | 16,291 |
| 1986 | 191,099 | 170,382 | 137,132 | 33,250 | 20,717 | 4,500 | 16,217 |
| 1987 | 192,262 | 171,095 | 137,154 | 33,941 | 21,167 | 4,732 | 16,435 |
| 1988 | 191,656 | 170,144 | 136,619 | 33,525 | 21,512 | 5,008 | 16,504 |
| 1989 | 195,878 | 173,343 | 139,256 | 34,087 | 22,535 | 5,181 | 17,354 |
| 1990 | 201,632 | 177,747 | 143,255 | 34,492 | 23,885 | 5,477 | 18,408 |
| 1991 | 211,562 | 185,408 | 148,329 | 37,079 | 26,154 | 5,748 | 20,406 |
| 1992 | 225,836 | 197,399 | 157,510 | 39,889 | 28,437 | 6,541 | 21,896 |
| 1993 | 236,291 | 204,405 | 163,195 | 41,210 | 31,886 | 7,368 | 24,518 |
| 1994 | 242,265 | 206,809 | 165,657 | 41,152 | 35,456 | 7,901 | 27,555 |
| 1995 | 242,572 | 204,113 | 165,521 | 38,592 | 38,459 | 8,545 | 29,914 |
| 1996 | 241,160 | 200,674 | 164,198 | 36,476 | 40,486 | 8,476 | 32,010 |
| 1997 | 238,582 | 195,974 | 161,097 | 34,877 | 42,608 | 8,982 | 33,626 |
| 1998 | 236,368 | 191,945 | 158,559 | 33,386 | 44,423 | 9,661 | 34,762 |
| 1999 | 236,247 | 190,076 | 157,735 | 32,341 | 46,171 | 10,104 | 36,067 |
| 2000 | 231,010 | 185,613 | 154,545 | 31,068 | 45,397 | 9,696 | 35,701 |
| 2001 | 233,563 | 188,135 | 156,352 | 31,783 | 45,428 | 10,076 | 35,352 |
| 2002 | 247,608 | 200,097 | 164,856 | 35,241 | 47,511 | 11,031 | 36,480 |
| 2003 | 265,067 | 212,855 | 173,624 | 39,231 | 52,212 | 12,469 | 39,743 |
| 2004 | 273,236 | 217,345 | 178,463 | 38,882 | 55,891 | 12,822 | 43,069 |
| 2005 | 279,275 | 220,842 | 181,990 | 38,852 | 58,433 | 12,961 | 45,472 |
| 2006 | 287,684 | 225,338 | 185,004 | 40,334 | 62,346 | 14,222 | 48,124 |
| 2007old[b] | 294,556 | 233,343 | 191,167 | 42,176 | 61,213 | 14,936 | 46,277 |
| 2007new[b] | 299,716 | 240,319 | 197,473 | 42,846 | 59,397 | 13,290 | 46,107 |
| 2008 | 304,912 | 245,691 | 201,142 | 44,549 | 59,221 | 14,639 | 44,582 |
| 2009 | 307,192 | 256,503 | 207,858 | 48,645 | 50,689 | 14,349 | 36,340 |
| 2010 | 309,475 | 263,871 | 211,598 | 52,273 | 45,604 | 15,489 | 30,115 |

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 8. Full-time graduate students with temporary visas in science, engineering, and health in all institutions, by field: 1980–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine | Other health[a] |
| 1980 | 50,302 | 48,259 | 30,362 | 17,897 | 2,043 | 699 | 1,344 |
| 1981 | 54,475 | 52,329 | 32,642 | 19,687 | 2,146 | 705 | 1,441 |
| 1982 | 57,467 | 55,169 | 33,881 | 21,288 | 2,298 | 846 | 1,452 |
| 1983 | 61,926 | 59,515 | 36,758 | 22,757 | 2,411 | 907 | 1,504 |
| 1984 | 63,445 | 61,087 | 37,863 | 23,224 | 2,358 | 807 | 1,551 |
| 1985 | 68,244 | 65,699 | 41,618 | 24,081 | 2,545 | 1,012 | 1,533 |
| 1986 | 75,069 | 72,347 | 45,400 | 26,947 | 2,722 | 1,054 | 1,668 |
| 1987 | 78,794 | 76,010 | 47,989 | 28,021 | 2,784 | 1,101 | 1,683 |
| 1988 | 83,471 | 80,413 | 50,906 | 29,507 | 3,058 | 1,190 | 1,868 |
| 1989 | 86,770 | 83,477 | 53,168 | 30,309 | 3,293 | 1,252 | 2,041 |
| 1990 | 91,150 | 87,576 | 56,058 | 31,518 | 3,574 | 1,424 | 2,150 |
| 1991 | 95,448 | 91,662 | 57,707 | 33,955 | 3,786 | 1,475 | 2,311 |
| 1992 | 96,719 | 93,009 | 58,455 | 34,554 | 3,710 | 1,412 | 2,298 |
| 1993 | 93,353 | 89,500 | 56,902 | 32,598 | 3,853 | 1,465 | 2,388 |
| 1994 | 89,823 | 86,170 | 55,752 | 30,418 | 3,653 | 1,325 | 2,328 |
| 1995 | 86,711 | 83,058 | 53,868 | 29,190 | 3,653 | 1,232 | 2,421 |
| 1996 | 87,376 | 83,365 | 53,982 | 29,383 | 4,011 | 1,327 | 2,684 |
| 1997 | 88,707 | 84,695 | 53,884 | 30,811 | 4,012 | 1,230 | 2,782 |
| 1998 | 91,021 | 86,998 | 54,949 | 32,049 | 4,023 | 1,283 | 2,740 |
| 1999 | 98,176 | 93,817 | 58,135 | 35,682 | 4,359 | 1,450 | 2,909 |
| 2000 | 110,273 | 105,742 | 64,534 | 41,208 | 4,531 | 1,333 | 3,198 |
| 2001 | 120,959 | 115,886 | 70,221 | 45,665 | 5,073 | 1,746 | 3,327 |
| 2002 | 131,383 | 125,375 | 75,164 | 50,211 | 6,008 | 2,303 | 3,705 |
| 2003 | 132,353 | 126,173 | 75,188 | 50,985 | 6,180 | 2,273 | 3,907 |
| 2004 | 129,337 | 123,184 | 75,111 | 48,073 | 6,153 | 2,177 | 3,976 |
| 2005 | 127,345 | 120,900 | 75,293 | 45,607 | 6,445 | 2,141 | 4,304 |
| 2006 | 131,331 | 124,464 | 76,980 | 47,484 | 6,867 | 2,345 | 4,522 |
| 2007old[b] | 136,304 | 129,633 | 78,654 | 50,979 | 6,671 | 2,515 | 4,156 |
| 2007new[b] | 137,649 | 131,223 | 79,756 | 51,467 | 6,426 | 2,188 | 4,238 |
| 2008 | 144,701 | 137,869 | 84,163 | 53,706 | 6,832 | 2,326 | 4,506 |
| 2009 | 148,923 | 141,995 | 85,703 | 56,292 | 6,928 | 2,376 | 4,552 |
| 2010 | 151,710 | 145,236 | 87,717 | 57,519 | 6,474 | 2,215 | 4,259 |

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 574,463 | 582,226 | 597,643 | 607,823 | 619,499 | 631,489 | 631,645 | 632,652 |
| Science and engineering | 475,873 | 478,275 | 486,287 | 502,375 | 516,199 | 529,275 | 545,685 | 556,532 |
| Science | 352,307 | 357,710 | 363,246 | 372,120 | 384,523 | 391,419 | 401,008 | 407,291 |
| Agricultural sciences | 13,445 | 13,123 | 13,016 | 13,222 | 13,528 | 14,153 | 15,200 | 15,656 |
| Biological sciences | 66,565 | 68,479 | 69,941 | 71,663 | 71,932 | 72,666 | 73,304 | 74,928 |
| Anatomy | 897 | 938 | 961 | 979 | 867 | 764 | 833 | 849 |
| Biochemistry | 5,612 | 5,814 | 5,824 | 5,959 | 5,853 | 5,473 | 5,271 | 5,308 |
| Biology | 15,458 | 15,681 | 16,463 | 16,212 | 15,898 | 16,514 | 16,840 | 17,210 |
| Biometry/epidemiology | 4,674 | 4,805 | 4,789 | 5,483 | 5,694 | 5,971 | 5,739 | 6,398 |
| Biophysics | 1,180 | 1,183 | 1,203 | 1,214 | 1,193 | 1,084 | 1,042 | 1,072 |
| Botany | 1,831 | 1,860 | 1,850 | 1,891 | 1,821 | 1,803 | 1,831 | 1,863 |
| Cell biology | 5,830 | 6,177 | 6,553 | 6,696 | 6,839 | 7,096 | 7,153 | 7,047 |
| Ecology | 2,185 | 2,165 | 2,162 | 2,191 | 2,026 | 2,026 | 1,746 | 1,828 |
| Entomology/parasitology | 1,241 | 1,126 | 1,114 | 1,078 | 1,078 | 1,079 | 1,079 | 1,116 |
| Genetics | 2,129 | 2,155 | 2,154 | 2,152 | 2,120 | 2,120 | 2,242 | 2,333 |
| Microbiology/immunology/virology | 5,375 | 5,401 | 5,324 | 5,314 | 5,212 | 5,054 | 4,968 | 4,896 |
| Nutrition | 4,771 | 4,817 | 5,042 | 5,250 | 4,890 | 5,177 | 5,330 | 5,548 |
| Pathology | 1,557 | 1,593 | 1,612 | 1,633 | 1,580 | 1,618 | 1,450 | 1,376 |
| Pharmacology | 3,122 | 3,114 | 2,985 | 3,030 | 3,013 | 3,005 | 3,163 | 3,101 |
| Physiology | 2,409 | 2,399 | 2,416 | 2,406 | 2,738 | 2,863 | 2,866 | 2,879 |
| Zoology | 1,236 | 1,264 | 1,145 | 1,084 | 1,108 | 925 | 875 | 896 |
| Biological sciences, nec | 7,058 | 7,987 | 8,344 | 9,091 | 10,002 | 10,094 | 10,876 | 11,208 |
| Communication[a] | ne | ne | ne | ne | 7,303 | 8,444 | 9,418 | 9,825 |
| Computer sciences | 50,016 | 47,978 | 47,653 | 48,959 | 48,246 | 49,553 | 51,161 | 51,546 |
| Earth, atmospheric, and ocean sciences | 15,131 | 14,836 | 14,920 | 14,675 | 14,100 | 14,389 | 14,839 | 15,655 |
| Atmospheric sciences | 1,086 | 1,146 | 1,079 | 1,117 | 1,178 | 1,400 | 1,355 | 1,455 |
| Geosciences | 7,358 | 7,212 | 7,177 | 7,061 | 7,020 | 7,089 | 7,539 | 8,251 |
| Oceanography | 2,801 | 2,760 | 2,770 | 2,663 | 2,615 | 2,634 | 2,633 | 2,556 |
| Earth/atmospheric/ocean sciences, nec | 3,886 | 3,718 | 3,894 | 3,834 | 3,287 | 3,266 | 3,312 | 3,393 |
| Family and consumer sciences/ human sciences[a] | ne | ne | ne | ne | 2,780 | 3,549 | 3,794 | 4,191 |
| Mathematical sciences | 19,931 | 20,210 | 20,815 | 21,335 | 20,975 | 21,400 | 22,226 | 23,136 |
| Mathematics/applied mathematics | 15,964 | 16,106 | 16,649 | 16,894 | 16,528 | 16,449 | 17,204 | 17,589 |
| Statistics | 3,967 | 4,104 | 4,166 | 4,441 | 4,447 | 4,951 | 5,022 | 5,547 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 4,484 | 5,559 | 6,557 | 7,944 |
| Neuroscience[a] | na | na | na | na | 1,584 | 2,012 | 2,356 | 2,798 |
| Physical sciences | 35,761 | 36,375 | 36,901 | 37,111 | 36,824 | 37,319 | 38,149 | 38,973 |
| Astronomy | 1,119 | 1,191 | 1,211 | 1,233 | 1,232 | 1,275 | 1,409 | 1,331 |
| Chemistry | 20,776 | 21,101 | 21,351 | 21,424 | 21,298 | 21,574 | 22,094 | 22,436 |
| Physics | 13,298 | 13,472 | 13,722 | 13,845 | 13,816 | 13,862 | 14,060 | 14,507 |
| Physical sciences, nec | 568 | 611 | 617 | 609 | 478 | 608 | 586 | 699 |
| Psychology[b] | 54,126 | 57,282 | 57,653 | 60,284 | 59,617 | 58,991 | 56,184 | 53,419 |
| Clinical psychology | 13,771 | 14,283 | 13,947 | 14,517 | 14,495 | 13,691 | 13,113 | 12,155 |
| Psychology, general | 16,089 | 16,620 | 16,622 | 18,366 | 17,923 | 17,322 | 15,148 | 14,022 |
| Psychology, nec | 24,266 | 26,379 | 27,084 | 27,401 | 27,199 | 27,978 | 27,923 | 27,242 |
| Social sciences | 97,332 | 99,427 | 102,347 | 104,871 | 103,150 | 103,384 | 107,820 | 109,220 |
| Agricultural economics | 2,195 | 2,127 | 2,158 | 2,126 | 1,989 | 2,132 | 2,222 | 2,180 |
| Anthropology (cultural/social) | 7,826 | 7,750 | 8,150 | 8,099 | 8,129 | 8,333 | 8,359 | 8,528 |
| Economics (except agricultural) | 12,318 | 11,805 | 12,132 | 12,328 | 12,597 | 12,971 | 13,993 | 14,317 |
| Geography | 4,809 | 4,800 | 4,750 | 4,660 | 4,660 | 4,745 | 4,810 | 5,059 |
| History and philosophy of science | 994 | 965 | 968 | 1,119 | 1,054 | 1,177 | 1,006 | 705 |
| Linguistics | 2,941 | 3,187 | 3,074 | 3,076 | 2,879 | 3,095 | 3,170 | 3,132 |

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Political science | 39,023 | 40,780 | 41,784 | 41,854 | 41,349 | 40,871 | 43,919 | 45,045 |
| Sociology | 8,874 | 9,018 | 9,035 | 9,734 | 9,642 | 10,002 | 9,731 | 9,883 |
| Sociology/anthropology | 839 | 848 | 837 | 831 | 682 | 653 | 576 | 329 |
| Social sciences, nec | 17,513 | 18,147 | 19,459 | 21,044 | 20,169 | 19,405 | 20,034 | 20,042 |
| Engineering | 123,566 | 120,565 | 123,041 | 130,255 | 131,676 | 137,856 | 144,677 | 149,241 |
| Aerospace engineering | 4,089 | 4,170 | 4,482 | 4,616 | 4,616 | 4,902 | 5,266 | 5,540 |
| Agricultural engineering | 1,041 | 1,059 | 1,073 | 1,126 | 1,126 | 1,233 | 1,303 | 1,457 |
| Architecture[a] | na | na | na | na | 4,601 | 5,905 | 6,804 | 6,795 |
| Biomedical engineering | 5,807 | 6,067 | 6,482 | 6,881 | 6,904 | 7,339 | 7,904 | 8,497 |
| Chemical engineering | 7,452 | 7,173 | 7,261 | 7,383 | 7,584 | 7,892 | 8,188 | 8,668 |
| Civil engineering[a] | 18,561 | 18,114 | 17,802 | 19,867 | 16,071 | 16,931 | 18,638 | 19,559 |
| Electrical engineering | 38,995 | 37,450 | 38,265 | 40,207 | 40,588 | 41,164 | 41,218 | 41,336 |
| Engineering science | 2,198 | 1,951 | 2,046 | 1,843 | 1,806 | 2,099 | 2,168 | 2,071 |
| Industrial engineering | 13,852 | 13,650 | 13,829 | 14,290 | 14,474 | 15,692 | 15,825 | 15,205 |
| Mechanical engineering | 17,852 | 17,373 | 17,919 | 18,366 | 18,347 | 19,585 | 21,243 | 22,509 |
| Metallurgical/materials engineering | 5,059 | 5,160 | 5,268 | 5,365 | 5,314 | 5,539 | 5,863 | 6,274 |
| Mining engineering | 308 | 279 | 244 | 307 | 222 | 290 | 312 | 419 |
| Nuclear engineering | 971 | 1,013 | 1,099 | 1,208 | 1,180 | 1,201 | 1,243 | 1,459 |
| Petroleum engineering | 845 | 808 | 813 | 1,014 | 1,014 | 1,009 | 1,190 | 1,295 |
| Engineering, nec | 6,536 | 6,298 | 6,458 | 7,782 | 7,829 | 7,075 | 7,512 | 8,157 |
| Health[b] | 98,590 | 103,951 | 111,356 | 105,448 | 103,300 | 102,214 | 85,960 | 76,120 |
| Clinical medicine | 20,866 | 21,414 | 23,441 | 24,616 | 22,751 | 23,939 | 24,125 | 25,699 |
| Anesthesiology | 1,337 | 1,363 | 1,370 | 883 | 883 | 589 | 402 | 325 |
| Cardiology | 39 | 33 | 32 | 51 | 51 | 47 | 50 | 51 |
| Endocrinology | 63 | 56 | 42 | 40 | 40 | 64 | 50 | 53 |
| Gastroenterology | 16 | 7 | 18 | 28 | 28 | 15 | 15 | 7 |
| Hematology | 30 | 13 | 14 | 9 | 9 | 8 | 11 | 6 |
| Neurology[a] | 2,642 | 2,783 | 2,981 | 3,381 | 1,751 | 1,462 | 1,323 | 1,056 |
| Obstetrics/gynecology | 17 | 21 | 54 | 81 | 81 | 83 | 89 | 79 |
| Oncology/cancer research | 274 | 331 | 341 | 355 | 264 | 260 | 272 | 232 |
| Ophthalmology | 423 | 394 | 414 | 407 | 379 | 1 | 1 | 5 |
| Otorhinolaryngology | 12 | 12 | 14 | 15 | 15 | 14 | 4 | 4 |
| Pediatrics | 424 | 278 | 284 | 302 | 302 | 207 | 186 | 211 |
| Preventive medicine/community health | 12,335 | 12,605 | 14,320 | 15,561 | 16,209 | 17,901 | 18,797 | 20,445 |
| Psychiatry | 403 | 250 | 274 | 278 | 218 | 188 | 233 | 260 |
| Pulmonary disease | 7 | 27 | 10 | 24 | 24 | 13 | 13 | 12 |
| Radiology | 262 | 276 | 288 | 270 | 281 | 320 | 385 | 396 |
| Surgery | 75 | 88 | 105 | 47 | 31 | 31 | 40 | 59 |
| Clinical medicine, nec | 2,507 | 2,877 | 2,880 | 2,884 | 2,185 | 2,736 | 2,254 | 2,498 |
| Other health[b] | 77,724 | 82,537 | 87,915 | 80,832 | 80,549 | 78,275 | 61,835 | 50,421 |
| Dental sciences | 1,946 | 1,748 | 1,614 | 1,537 | 1,688 | 1,643 | 1,770 | 1,661 |
| Nursing | 29,781 | 31,670 | 35,846 | 31,747 | 31,803 | 30,471 | 21,355 | 12,107 |
| Pharmaceutical sciences | 5,218 | 6,091 | 6,315 | 4,964 | 5,066 | 4,251 | 4,443 | 4,291 |

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 14,045 | 14,821 | 14,847 | 16,237 | 16,229 | 15,968 | 14,641 | 14,645 |
| Veterinary sciences | 1,732 | 1,970 | 2,067 | 2,020 | 2,371 | 2,478 | 2,170 | 2,211 |
| Other health, nec | 25,002 | 26,237 | 27,226 | 24,327 | 23,392 | 23,464 | 17,456 | 15,506 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 277,749 | 286,935 | 297,825 | 299,671 | 307,490 | 311,179 | 303,120 | 297,171 |
| Science and engineering | 201,865 | 206,308 | 211,106 | 218,295 | 227,273 | 231,997 | 237,749 | 240,481 |
| Science | 174,593 | 179,413 | 183,162 | 188,321 | 196,801 | 200,460 | 204,431 | 206,028 |
| Agricultural sciences | 6,258 | 6,202 | 6,299 | 6,444 | 6,627 | 6,891 | 7,485 | 7,819 |
| Biological sciences | 37,289 | 38,521 | 39,369 | 40,651 | 40,754 | 41,334 | 41,818 | 42,571 |
| Anatomy | 467 | 466 | 487 | 505 | 428 | 383 | 428 | 432 |
| Biochemistry | 2,643 | 2,818 | 2,812 | 2,899 | 2,868 | 2,691 | 2,615 | 2,655 |
| Biology | 8,617 | 8,638 | 9,056 | 9,042 | 8,891 | 9,226 | 9,494 | 9,582 |
| Biometry/epidemiology | 2,867 | 3,009 | 2,985 | 3,330 | 3,412 | 3,560 | 3,395 | 3,747 |
| Biophysics | 434 | 408 | 405 | 418 | 417 | 383 | 377 | 376 |
| Botany | 974 | 985 | 962 | 977 | 940 | 945 | 971 | 979 |
| Cell biology | 3,095 | 3,290 | 3,530 | 3,653 | 3,742 | 3,903 | 3,950 | 3,823 |
| Ecology | 1,192 | 1,210 | 1,224 | 1,249 | 1,139 | 1,126 | 960 | 1,009 |
| Entomology/parasitology | 565 | 520 | 518 | 507 | 507 | 504 | 512 | 550 |
| Genetics | 1,283 | 1,309 | 1,317 | 1,284 | 1,274 | 1,277 | 1,351 | 1,373 |
| Microbiology/immunology/virology | 3,053 | 3,082 | 3,050 | 3,060 | 3,004 | 2,933 | 2,911 | 2,849 |
| Nutrition | 3,721 | 3,791 | 3,941 | 4,117 | 3,865 | 4,172 | 4,300 | 4,479 |
| Pathology | 922 | 958 | 981 | 999 | 964 | 1,011 | 910 | 835 |
| Pharmacology | 1,693 | 1,713 | 1,664 | 1,679 | 1,671 | 1,679 | 1,772 | 1,755 |
| Physiology | 1,229 | 1,255 | 1,275 | 1,277 | 1,460 | 1,505 | 1,425 | 1,466 |
| Zoology | 640 | 636 | 586 | 571 | 595 | 466 | 476 | 508 |
| Biological sciences, nec | 3,894 | 4,433 | 4,576 | 5,084 | 5,577 | 5,570 | 5,971 | 6,153 |
| Communication[a] | ne | ne | ne | ne | 4,647 | 5,381 | 6,029 | 6,353 |
| Computer sciences | 13,277 | 12,045 | 12,062 | 12,206 | 12,017 | 12,545 | 13,053 | 12,807 |
| Earth, atmospheric, and ocean sciences | 6,932 | 6,895 | 7,004 | 6,951 | 6,650 | 6,621 | 6,815 | 7,200 |
| Atmospheric sciences | 363 | 388 | 367 | 395 | 419 | 449 | 447 | 484 |
| Geosciences | 3,059 | 3,043 | 3,081 | 3,055 | 3,040 | 3,042 | 3,195 | 3,493 |
| Oceanography | 1,509 | 1,481 | 1,497 | 1,464 | 1,439 | 1,433 | 1,431 | 1,423 |
| Earth/atmospheric/ocean sciences, nec | 2,001 | 1,983 | 2,059 | 2,037 | 1,752 | 1,697 | 1,742 | 1,800 |
| Family and consumer sciences/ human sciences[a] | ne | ne | ne | ne | 2,327 | 2,958 | 3,203 | 3,461 |
| Mathematical sciences | 7,497 | 7,437 | 7,693 | 7,781 | 7,678 | 7,751 | 7,979 | 8,127 |
| Mathematics/applied mathematics | 5,613 | 5,560 | 5,772 | 5,751 | 5,648 | 5,540 | 5,787 | 5,768 |
| Statistics | 1,884 | 1,877 | 1,921 | 2,030 | 2,030 | 2,211 | 2,192 | 2,359 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,560 | 3,234 | 3,809 | 4,493 |
| Neuroscience[a] | na | na | na | na | 863 | 1,097 | 1,264 | 1,474 |
| Physical sciences | 11,300 | 11,726 | 12,005 | 12,253 | 12,109 | 12,333 | 12,691 | 12,826 |
| Astronomy | 355 | 394 | 407 | 414 | 414 | 410 | 431 | 423 |
| Chemistry | 8,232 | 8,423 | 8,644 | 8,821 | 8,770 | 8,983 | 9,222 | 9,261 |
| Physics | 2,501 | 2,669 | 2,710 | 2,776 | 2,768 | 2,758 | 2,846 | 2,899 |
| Physical sciences, nec | 212 | 240 | 244 | 242 | 157 | 182 | 192 | 243 |
| Psychology[b] | 40,156 | 43,319 | 43,703 | 45,594 | 45,116 | 44,615 | 42,536 | 40,238 |
| Clinical psychology | 10,623 | 11,012 | 10,843 | 11,294 | 11,269 | 10,589 | 10,205 | 9,455 |
| Psychology, general | 10,958 | 11,930 | 11,989 | 13,405 | 13,036 | 12,581 | 10,867 | 9,992 |
| Psychology, nec | 18,575 | 20,377 | 20,871 | 20,895 | 20,811 | 21,445 | 21,464 | 20,791 |
| Social sciences | 51,884 | 53,268 | 55,027 | 56,441 | 55,453 | 55,700 | 57,749 | 58,659 |
| Agricultural economics | 854 | 875 | 909 | 907 | 849 | 914 | 949 | 927 |
| Anthropology (cultural/social) | 4,973 | 4,940 | 5,215 | 5,151 | 5,169 | 5,314 | 5,337 | 5,490 |
| Economics (except agricultural) | 4,485 | 4,254 | 4,343 | 4,555 | 4,699 | 4,815 | 5,120 | 5,214 |
| Geography | 2,008 | 2,013 | 2,002 | 1,971 | 1,971 | 1,999 | 2,071 | 2,172 |
| History and philosophy of science | 414 | 440 | 428 | 482 | 449 | 496 | 409 | 316 |
| Linguistics | 1,927 | 2,055 | 1,986 | 1,993 | 1,876 | 2,002 | 1,940 | 1,888 |

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Political science | 20,820 | 21,882 | 22,239 | 22,146 | 21,820 | 21,696 | 23,379 | 23,970 |
| Sociology | 5,794 | 5,793 | 5,793 | 6,235 | 6,163 | 6,440 | 6,159 | 6,326 |
| Sociology/anthropology | 547 | 545 | 547 | 552 | 455 | 424 | 371 | 218 |
| Social sciences, nec | 10,062 | 10,471 | 11,565 | 12,449 | 12,002 | 11,600 | 12,014 | 12,138 |
| Engineering | 27,272 | 26,895 | 27,944 | 29,974 | 30,472 | 31,537 | 33,318 | 34,453 |
| Aerospace engineering | 600 | 607 | 709 | 700 | 700 | 722 | 734 | 784 |
| Agricultural engineering | 311 | 323 | 350 | 366 | 366 | 398 | 437 | 509 |
| Architecture[a] | na | na | na | na | 1,974 | 2,612 | 2,997 | 3,044 |
| Biomedical engineering | 2,183 | 2,297 | 2,486 | 2,610 | 2,621 | 2,761 | 2,979 | 3,133 |
| Chemical engineering | 2,106 | 2,079 | 2,159 | 2,235 | 2,266 | 2,409 | 2,616 | 2,722 |
| Civil engineering[a] | 5,441 | 5,405 | 5,423 | 6,348 | 4,736 | 4,765 | 5,301 | 5,571 |
| Electrical engineering | 7,201 | 6,788 | 7,026 | 7,367 | 7,439 | 7,340 | 7,174 | 7,193 |
| Engineering science | 465 | 419 | 451 | 412 | 409 | 471 | 478 | 438 |
| Industrial engineering | 3,230 | 3,296 | 3,466 | 3,520 | 3,544 | 3,714 | 3,800 | 3,684 |
| Mechanical engineering | 2,456 | 2,408 | 2,485 | 2,615 | 2,614 | 2,749 | 2,990 | 3,186 |
| Metallurgical/materials engineering | 1,321 | 1,348 | 1,390 | 1,460 | 1,473 | 1,533 | 1,589 | 1,754 |
| Mining engineering | 42 | 39 | 43 | 51 | 37 | 49 | 55 | 77 |
| Nuclear engineering | 196 | 211 | 214 | 226 | 221 | 214 | 198 | 228 |
| Petroleum engineering | 134 | 121 | 135 | 183 | 183 | 191 | 209 | 235 |
| Engineering, nec | 1,586 | 1,554 | 1,607 | 1,881 | 1,889 | 1,609 | 1,761 | 1,895 |
| Health[b] | 75,884 | 80,627 | 86,719 | 81,376 | 80,217 | 79,182 | 65,371 | 56,690 |
| Clinical medicine | 13,471 | 14,075 | 15,533 | 16,306 | 15,350 | 16,347 | 16,445 | 17,857 |
| Anesthesiology | 868 | 900 | 905 | 561 | 561 | 354 | 249 | 193 |
| Cardiology | 11 | 13 | 11 | 29 | 29 | 22 | 20 | 22 |
| Endocrinology | 39 | 31 | 21 | 24 | 24 | 47 | 33 | 31 |
| Gastroenterology | 9 | 5 | 10 | 14 | 14 | 7 | 8 | 3 |
| Hematology | 16 | 5 | 4 | 7 | 7 | 4 | 6 | 3 |
| Neurology[a] | 1,331 | 1,426 | 1,571 | 1,820 | 932 | 782 | 676 | 552 |
| Obstetrics/gynecology | 10 | 9 | 33 | 57 | 57 | 65 | 69 | 61 |
| Oncology/cancer research | 157 | 189 | 195 | 207 | 152 | 154 | 156 | 136 |
| Ophthalmology | 275 | 264 | 280 | 291 | 273 | 0 | 0 | 1 |
| Otorhinolaryngology | 1 | 5 | 7 | 9 | 9 | 9 | 2 | 2 |
| Pediatrics | 363 | 229 | 236 | 249 | 249 | 163 | 141 | 161 |
| Preventive medicine/community health | 8,510 | 8,929 | 10,113 | 11,011 | 11,468 | 12,818 | 13,452 | 14,865 |
| Psychiatry | 321 | 198 | 219 | 234 | 177 | 152 | 182 | 207 |
| Pulmonary disease | 6 | 13 | 4 | 9 | 9 | 6 | 9 | 8 |
| Radiology | 123 | 132 | 140 | 84 | 85 | 85 | 115 | 124 |
| Surgery | 30 | 27 | 41 | 21 | 11 | 11 | 18 | 29 |
| Clinical medicine, nec | 1,401 | 1,700 | 1,743 | 1,679 | 1,293 | 1,668 | 1,309 | 1,459 |
| Other health[b] | 62,413 | 66,552 | 71,186 | 65,070 | 64,867 | 62,835 | 48,926 | 38,833 |
| Dental sciences | 841 | 781 | 686 | 625 | 699 | 679 | 751 | 744 |
| Nursing | 26,981 | 28,731 | 32,539 | 28,842 | 28,910 | 27,746 | 19,462 | 10,932 |
| Pharmaceutical sciences | 2,904 | 3,446 | 3,532 | 2,670 | 2,722 | 2,211 | 2,298 | 2,227 |

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 13,059 | 13,856 | 13,850 | 14,974 | 14,980 | 14,755 | 13,590 | 13,531 |
| Veterinary sciences | 1,040 | 1,241 | 1,309 | 1,293 | 1,510 | 1,597 | 1,362 | 1,415 |
| Other health, nec | 17,588 | 18,497 | 19,270 | 16,666 | 16,046 | 15,847 | 11,463 | 9,984 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 402,573 | 406,620 | 419,015 | 430,860 | 437,365 | 449,613 | 456,115 | 461,185 |
| Science and engineering | 340,529 | 341,742 | 349,802 | 362,976 | 371,542 | 383,560 | 398,498 | 409,107 |
| Science | 253,574 | 257,283 | 261,984 | 269,821 | 277,229 | 285,305 | 293,561 | 299,315 |
| Agricultural sciences | 10,040 | 9,710 | 9,478 | 9,634 | 9,822 | 10,132 | 10,823 | 11,087 |
| Biological sciences | 55,848 | 57,697 | 58,918 | 60,093 | 60,428 | 60,662 | 61,466 | 62,770 |
| Anatomy | 802 | 844 | 899 | 906 | 823 | 731 | 806 | 800 |
| Biochemistry | 5,333 | 5,486 | 5,433 | 5,581 | 5,498 | 5,085 | 4,886 | 4,909 |
| Biology | 11,554 | 11,926 | 12,413 | 12,330 | 12,062 | 12,486 | 12,811 | 13,084 |
| Biometry/epidemiology | 3,218 | 3,417 | 3,495 | 3,734 | 3,919 | 4,294 | 4,176 | 4,868 |
| Biophysics | 1,115 | 1,120 | 1,145 | 1,183 | 1,159 | 1,037 | 1,001 | 1,033 |
| Botany | 1,653 | 1,667 | 1,655 | 1,713 | 1,655 | 1,613 | 1,664 | 1,679 |
| Cell biology | 5,395 | 5,770 | 6,188 | 6,317 | 6,445 | 6,632 | 6,660 | 6,621 |
| Ecology | 1,531 | 1,600 | 1,602 | 1,744 | 1,617 | 1,620 | 1,417 | 1,471 |
| Entomology/parasitology | 1,046 | 943 | 947 | 926 | 926 | 910 | 892 | 933 |
| Genetics | 2,047 | 2,063 | 2,060 | 2,067 | 2,042 | 2,056 | 2,175 | 2,254 |
| Microbiology/immunology/virology | 5,083 | 5,074 | 5,015 | 4,992 | 4,898 | 4,745 | 4,660 | 4,569 |
| Nutrition | 3,385 | 3,424 | 3,441 | 3,621 | 3,365 | 3,526 | 3,631 | 3,776 |
| Pathology | 1,367 | 1,375 | 1,400 | 1,406 | 1,386 | 1,384 | 1,308 | 1,272 |
| Pharmacology | 2,974 | 2,905 | 2,818 | 2,808 | 2,789 | 2,743 | 2,884 | 2,756 |
| Physiology | 2,219 | 2,187 | 2,195 | 2,164 | 2,455 | 2,606 | 2,597 | 2,678 |
| Zoology | 1,072 | 1,094 | 994 | 964 | 976 | 726 | 661 | 589 |
| Biological sciences, nec | 6,054 | 6,802 | 7,218 | 7,637 | 8,413 | 8,468 | 9,237 | 9,478 |
| Communication[a] | ne | ne | ne | ne | 4,528 | 5,224 | 6,091 | 6,274 |
| Computer sciences | 29,162 | 28,317 | 28,760 | 30,511 | 30,082 | 31,338 | 32,198 | 32,782 |
| Earth, atmospheric, and ocean sciences | 11,685 | 11,370 | 11,431 | 11,376 | 10,892 | 11,171 | 11,589 | 12,318 |
| Atmospheric sciences | 963 | 1,002 | 930 | 959 | 1,011 | 1,169 | 1,132 | 1,193 |
| Geosciences | 5,712 | 5,537 | 5,497 | 5,473 | 5,423 | 5,409 | 5,825 | 6,352 |
| Oceanography | 2,284 | 2,198 | 2,231 | 2,177 | 2,144 | 2,120 | 2,197 | 2,130 |
| Earth/atmospheric/ocean sciences, nec | 2,726 | 2,633 | 2,773 | 2,767 | 2,314 | 2,473 | 2,435 | 2,643 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 1,594 | 1,936 | 2,168 | 2,377 |
| Mathematical sciences | 14,916 | 15,261 | 15,571 | 15,966 | 15,668 | 16,241 | 16,885 | 17,606 |
| Mathematics/applied mathematics | 11,915 | 12,051 | 12,348 | 12,587 | 12,279 | 12,530 | 12,950 | 13,427 |
| Statistics | 3,001 | 3,210 | 3,223 | 3,379 | 3,389 | 3,711 | 3,935 | 4,179 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,398 | 3,110 | 3,957 | 5,063 |
| Neuroscience[a] | na | na | na | na | 1,530 | 1,909 | 2,261 | 2,682 |
| Physical sciences | 31,675 | 32,400 | 32,841 | 33,091 | 32,857 | 33,254 | 34,181 | 34,856 |
| Astronomy | 1,078 | 1,129 | 1,158 | 1,186 | 1,185 | 1,233 | 1,348 | 1,292 |
| Chemistry | 18,311 | 18,760 | 18,942 | 19,001 | 18,887 | 19,073 | 19,682 | 20,011 |
| Physics | 12,017 | 12,224 | 12,439 | 12,596 | 12,570 | 12,626 | 12,771 | 13,085 |
| Physical sciences, nec | 269 | 287 | 302 | 308 | 215 | 322 | 380 | 468 |
| Psychology[b] | 37,872 | 38,919 | 38,994 | 41,166 | 40,678 | 42,103 | 40,373 | 38,571 |
| Clinical psychology | 10,238 | 10,531 | 10,168 | 10,687 | 10,691 | 10,349 | 10,144 | 9,378 |
| Psychology, general | 11,689 | 12,016 | 12,148 | 12,824 | 12,550 | 12,925 | 11,443 | 10,716 |
| Psychology, nec | 15,945 | 16,372 | 16,678 | 17,655 | 17,437 | 18,829 | 18,786 | 18,477 |
| Social sciences | 62,376 | 63,609 | 65,991 | 67,984 | 66,752 | 68,225 | 71,569 | 72,929 |
| Agricultural economics | 1,888 | 1,831 | 1,836 | 1,856 | 1,762 | 1,868 | 1,896 | 1,825 |
| Anthropology (cultural/social) | 5,832 | 5,877 | 6,219 | 6,303 | 6,315 | 6,459 | 6,462 | 6,596 |
| Economics (except agricultural) | 10,037 | 9,715 | 10,018 | 10,181 | 10,358 | 10,541 | 11,433 | 11,879 |
| Geography | 3,172 | 3,196 | 3,158 | 3,166 | 3,166 | 3,299 | 3,331 | 3,373 |
| History and philosophy of science | 533 | 582 | 602 | 726 | 661 | 798 | 653 | 476 |
| Linguistics | 2,364 | 2,519 | 2,488 | 2,453 | 2,275 | 2,328 | 2,386 | 2,419 |
| Political science | 21,101 | 22,222 | 23,109 | 23,473 | 23,209 | 23,640 | 25,970 | 26,850 |

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology | 6,428 | 6,614 | 6,682 | 6,819 | 6,750 | 7,110 | 7,006 | 7,222 |
| Sociology/anthropology | 598 | 601 | 579 | 559 | 428 | 393 | 301 | 171 |
| Social sciences, nec | 10,423 | 10,452 | 11,300 | 12,448 | 11,828 | 11,789 | 12,131 | 12,118 |
| Engineering | 86,955 | 84,459 | 87,818 | 93,155 | 94,313 | 98,255 | 104,937 | 109,792 |
| Aerospace engineering | 3,243 | 3,241 | 3,374 | 3,482 | 3,482 | 3,691 | 3,974 | 4,211 |
| Agricultural engineering | 842 | 855 | 893 | 917 | 917 | 1,022 | 1,084 | 1,198 |
| Architecture[a] | na | na | na | na | 4,097 | 5,211 | 6,112 | 6,079 |
| Biomedical engineering | 5,047 | 5,254 | 5,666 | 5,898 | 5,921 | 6,262 | 6,859 | 7,418 |
| Chemical engineering | 6,379 | 6,139 | 6,218 | 6,275 | 6,459 | 6,762 | 7,110 | 7,516 |
| Civil engineering[a] | 13,588 | 13,196 | 13,074 | 14,691 | 11,336 | 11,909 | 13,503 | 14,191 |
| Electrical engineering | 26,732 | 25,849 | 27,379 | 28,934 | 29,076 | 29,212 | 29,282 | 29,977 |
| Engineering science | 1,741 | 1,613 | 1,656 | 1,454 | 1,432 | 1,486 | 1,490 | 1,502 |
| Industrial engineering | 6,591 | 6,113 | 6,421 | 7,036 | 7,422 | 8,216 | 8,362 | 8,371 |
| Mechanical engineering | 12,718 | 12,178 | 12,666 | 13,170 | 13,160 | 13,763 | 15,609 | 16,625 |
| Metallurgical/materials engineering | 4,359 | 4,507 | 4,627 | 4,667 | 4,613 | 4,811 | 5,181 | 5,551 |
| Mining engineering | 238 | 212 | 181 | 209 | 142 | 207 | 212 | 361 |
| Nuclear engineering | 809 | 840 | 910 | 960 | 951 | 941 | 968 | 1,123 |
| Petroleum engineering | 660 | 631 | 647 | 792 | 792 | 828 | 993 | 1,063 |
| Engineering, nec | 4,008 | 3,831 | 4,106 | 4,670 | 4,513 | 3,934 | 4,198 | 4,606 |
| Health[b] | 62,044 | 64,878 | 69,213 | 67,884 | 65,823 | 66,053 | 57,617 | 52,078 |
| Clinical medicine | 14,999 | 15,102 | 16,567 | 17,451 | 15,478 | 16,965 | 16,725 | 17,704 |
| Anesthesiology | 1,098 | 1,120 | 1,189 | 826 | 826 | 562 | 400 | 321 |
| Cardiology | 39 | 33 | 32 | 51 | 51 | 38 | 38 | 48 |
| Endocrinology | 57 | 52 | 42 | 37 | 37 | 60 | 47 | 48 |
| Gastroenterology | 13 | 3 | 17 | 28 | 28 | 15 | 15 | 7 |
| Hematology | 24 | 9 | 14 | 9 | 9 | 8 | 9 | 4 |
| Neurology[a] | 2,561 | 2,684 | 2,885 | 3,283 | 1,707 | 1,416 | 1,284 | 1,039 |
| Obstetrics/gynecology | 13 | 16 | 47 | 71 | 71 | 65 | 69 | 55 |
| Oncology/cancer research | 270 | 329 | 340 | 355 | 264 | 260 | 258 | 229 |
| Ophthalmology | 406 | 380 | 389 | 385 | 378 | 1 | 1 | 5 |
| Otorhinolaryngology | 6 | 6 | 8 | 7 | 7 | 9 | 2 | 3 |
| Pediatrics | 327 | 225 | 245 | 267 | 267 | 169 | 162 | 183 |
| Preventive medicine/community health | 7,764 | 7,552 | 8,590 | 9,292 | 9,585 | 11,679 | 12,219 | 13,312 |
| Psychiatry | 200 | 117 | 126 | 153 | 93 | 95 | 114 | 122 |
| Pulmonary disease | 7 | 27 | 10 | 23 | 23 | 13 | 12 | 12 |
| Radiology | 171 | 189 | 184 | 213 | 224 | 225 | 271 | 284 |
| Surgery | 59 | 70 | 85 | 45 | 29 | 17 | 26 | 49 |
| Clinical medicine, nec | 1,984 | 2,290 | 2,364 | 2,406 | 1,879 | 2,333 | 1,798 | 1,983 |
| Other health[b] | 47,045 | 49,776 | 52,646 | 50,433 | 50,345 | 49,088 | 40,892 | 34,374 |
| Dental sciences | 1,763 | 1,494 | 1,340 | 1,265 | 1,406 | 1,372 | 1,564 | 1,494 |
| Nursing | 11,598 | 12,571 | 13,979 | 13,137 | 13,128 | 13,204 | 9,544 | 4,980 |
| Pharmaceutical sciences | 3,633 | 4,255 | 4,480 | 3,756 | 3,852 | 2,979 | 3,182 | 3,032 |

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 10,866 | 11,259 | 11,506 | 12,698 | 12,679 | 12,438 | 12,466 | 12,554 |
| Veterinary sciences | 1,364 | 1,532 | 1,663 | 1,634 | 1,891 | 1,860 | 1,637 | 1,651 |
| Other health, nec | 17,821 | 18,665 | 19,678 | 17,943 | 17,389 | 17,235 | 12,499 | 10,663 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 106,544 | 110,219 | 116,482 | 120,236 | 122,449 | 130,635 | 134,756 | 136,487 |
| Science and engineering | 86,565 | 89,038 | 94,413 | 98,205 | 100,990 | 108,819 | 115,755 | 118,492 |
| Science | 64,540 | 66,665 | 68,537 | 70,387 | 72,725 | 78,227 | 83,252 | 84,689 |
| Agricultural sciences | 2,316 | 2,260 | 2,206 | 2,313 | 2,356 | 2,597 | 2,994 | 3,121 |
| Biological sciences | 12,796 | 12,918 | 13,055 | 13,485 | 13,749 | 14,528 | 15,443 | 16,038 |
| Anatomy | 180 | 213 | 213 | 252 | 194 | 146 | 181 | 154 |
| Biochemistry | 907 | 930 | 992 | 945 | 945 | 966 | 949 | 880 |
| Biology | 2,740 | 2,826 | 2,994 | 3,083 | 3,005 | 3,221 | 3,421 | 3,494 |
| Biometry/epidemiology | 986 | 1,069 | 974 | 1,126 | 1,171 | 1,147 | 1,198 | 1,510 |
| Biophysics | 210 | 174 | 186 | 197 | 183 | 199 | 161 | 190 |
| Botany | 336 | 316 | 318 | 333 | 331 | 304 | 340 | 339 |
| Cell biology | 1,140 | 1,208 | 1,294 | 1,249 | 1,254 | 1,372 | 1,461 | 1,500 |
| Ecology | 302 | 314 | 294 | 361 | 337 | 355 | 285 | 335 |
| Entomology/parasitology | 211 | 153 | 169 | 161 | 161 | 167 | 193 | 193 |
| Genetics | 441 | 365 | 348 | 330 | 319 | 370 | 405 | 402 |
| Microbiology/immunology/virology | 889 | 868 | 853 | 741 | 724 | 772 | 799 | 789 |
| Nutrition | 843 | 863 | 905 | 1,121 | 1,035 | 1,110 | 1,121 | 1,275 |
| Pathology | 277 | 248 | 269 | 257 | 266 | 321 | 266 | 230 |
| Pharmacology | 510 | 466 | 469 | 437 | 437 | 487 | 577 | 549 |
| Physiology | 731 | 678 | 597 | 603 | 669 | 690 | 751 | 727 |
| Zoology | 212 | 199 | 179 | 165 | 215 | 145 | 133 | 119 |
| Biological sciences, nec | 1,881 | 2,028 | 2,001 | 2,124 | 2,503 | 2,756 | 3,202 | 3,352 |
| Communication[a] | ne | ne | ne | ne | 1,531 | 1,912 | 2,119 | 2,089 |
| Computer sciences | 7,783 | 8,258 | 8,983 | 9,352 | 9,256 | 10,434 | 10,557 | 10,583 |
| Earth, atmospheric, and ocean sciences | 2,926 | 2,758 | 2,795 | 2,861 | 2,749 | 2,904 | 3,153 | 3,445 |
| Atmospheric sciences | 228 | 228 | 207 | 233 | 243 | 263 | 250 | 279 |
| Geosciences | 1,336 | 1,308 | 1,348 | 1,410 | 1,405 | 1,429 | 1,682 | 1,887 |
| Oceanography | 534 | 463 | 457 | 412 | 402 | 466 | 517 | 502 |
| Earth/atmospheric/ocean sciences, nec | 828 | 759 | 783 | 806 | 699 | 746 | 704 | 777 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 492 | 579 | 633 | 741 |
| Mathematical sciences | 4,252 | 4,196 | 4,342 | 4,595 | 4,432 | 4,591 | 4,888 | 5,193 |
| Mathematics/applied mathematics | 3,365 | 3,263 | 3,398 | 3,518 | 3,352 | 3,409 | 3,611 | 3,801 |
| Statistics | 887 | 933 | 944 | 1,077 | 1,080 | 1,182 | 1,277 | 1,392 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 771 | 1,140 | 1,412 | 1,759 |
| Neuroscience[a] | na | na | na | na | 273 | 304 | 395 | 505 |
| Physical sciences | 6,603 | 6,657 | 6,626 | 6,787 | 6,711 | 6,892 | 7,276 | 7,577 |
| Astronomy | 210 | 190 | 204 | 207 | 207 | 225 | 250 | 234 |
| Chemistry | 3,862 | 3,904 | 3,900 | 3,972 | 3,938 | 4,161 | 4,331 | 4,557 |
| Physics | 2,442 | 2,458 | 2,409 | 2,534 | 2,523 | 2,406 | 2,571 | 2,663 |
| Physical sciences, nec | 89 | 105 | 113 | 74 | 43 | 100 | 124 | 123 |
| Psychology[b] | 9,478 | 10,358 | 10,224 | 10,624 | 10,476 | 11,082 | 10,980 | 10,231 |
| Clinical psychology | 2,251 | 2,318 | 2,201 | 2,232 | 2,227 | 2,064 | 2,136 | 2,025 |
| Psychology, general | 2,946 | 3,385 | 3,374 | 3,536 | 3,438 | 3,635 | 3,300 | 3,024 |
| Psychology, nec | 4,281 | 4,655 | 4,649 | 4,856 | 4,811 | 5,383 | 5,544 | 5,182 |
| Social sciences | 18,386 | 19,260 | 20,306 | 20,370 | 19,929 | 21,264 | 23,402 | 23,407 |
| Agricultural economics | 523 | 557 | 543 | 516 | 491 | 573 | 610 | 510 |
| Anthropology (cultural/social) | 1,187 | 1,243 | 1,314 | 1,305 | 1,310 | 1,444 | 1,452 | 1,454 |
| Economics (except agricultural) | 2,686 | 2,724 | 2,907 | 3,108 | 3,179 | 3,263 | 3,855 | 3,926 |
| Geography | 860 | 898 | 845 | 897 | 897 | 1,013 | 1,017 | 1,042 |
| History and philosophy of science | 107 | 138 | 121 | 163 | 151 | 205 | 119 | 94 |
| Linguistics | 570 | 633 | 577 | 580 | 535 | 557 | 632 | 645 |
| Political science | 7,333 | 7,807 | 8,319 | 7,749 | 7,627 | 8,152 | 9,736 | 9,637 |
| Sociology | 1,359 | 1,499 | 1,353 | 1,647 | 1,610 | 1,795 | 1,671 | 1,685 |

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology/anthropology | 178 | 173 | 151 | 136 | 120 | 93 | 90 | 44 |
| Social sciences, nec | 3,583 | 3,588 | 4,176 | 4,269 | 4,009 | 4,169 | 4,220 | 4,370 |
| Engineering | 22,025 | 22,373 | 25,876 | 27,818 | 28,265 | 30,592 | 32,503 | 33,803 |
| Aerospace engineering | 834 | 804 | 943 | 962 | 962 | 1,116 | 1,176 | 1,196 |
| Agricultural engineering | 177 | 190 | 222 | 224 | 224 | 256 | 296 | 346 |
| Architecture[a] | na | na | na | na | 1,533 | 1,979 | 2,273 | 2,263 |
| Biomedical engineering | 1,274 | 1,267 | 1,472 | 1,559 | 1,565 | 1,648 | 1,833 | 2,011 |
| Chemical engineering | 1,392 | 1,293 | 1,429 | 1,532 | 1,566 | 1,713 | 1,910 | 2,047 |
| Civil engineering[a] | 4,175 | 4,057 | 4,198 | 4,926 | 3,662 | 4,073 | 4,878 | 5,079 |
| Electrical engineering | 6,633 | 6,987 | 8,668 | 8,887 | 8,920 | 9,042 | 8,831 | 9,237 |
| Engineering science | 361 | 317 | 321 | 331 | 339 | 398 | 309 | 356 |
| Industrial engineering | 1,724 | 1,674 | 2,148 | 2,445 | 2,626 | 3,015 | 2,908 | 2,783 |
| Mechanical engineering | 3,129 | 3,225 | 3,734 | 3,941 | 3,937 | 4,297 | 4,814 | 5,055 |
| Metallurgical/materials engineering | 926 | 992 | 1,043 | 1,089 | 1,086 | 1,170 | 1,302 | 1,431 |
| Mining engineering | 64 | 58 | 50 | 58 | 33 | 48 | 45 | 54 |
| Nuclear engineering | 192 | 193 | 206 | 239 | 237 | 259 | 265 | 330 |
| Petroleum engineering | 151 | 161 | 174 | 220 | 220 | 261 | 306 | 265 |
| Engineering, nec | 993 | 1,155 | 1,268 | 1,405 | 1,355 | 1,317 | 1,357 | 1,350 |
| Health[b] | 19,979 | 21,181 | 22,069 | 22,031 | 21,459 | 21,816 | 19,001 | 17,995 |
| Clinical medicine | 4,728 | 4,626 | 5,280 | 5,701 | 5,225 | 6,213 | 6,141 | 6,545 |
| Anesthesiology | 186 | 251 | 358 | 189 | 189 | 209 | 124 | 106 |
| Cardiology | 9 | 4 | 3 | 22 | 22 | 2 | 9 | 10 |
| Endocrinology | 4 | 10 | 7 | 7 | 7 | 20 | 8 | 7 |
| Gastroenterology | 4 | 3 | 0 | 0 | 0 | 3 | 1 | 2 |
| Hematology | 3 | 0 | 1 | 3 | 3 | 5 | 1 | 0 |
| Neurology[a] | 426 | 425 | 454 | 567 | 283 | 216 | 244 | 157 |
| Obstetrics/gynecology | 3 | 4 | 9 | 30 | 30 | 28 | 29 | 27 |
| Oncology/cancer research | 52 | 43 | 45 | 42 | 34 | 34 | 47 | 39 |
| Ophthalmology | 76 | 80 | 92 | 83 | 80 | 0 | 0 | 1 |
| Otorhinolaryngology | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 2 |
| Pediatrics | 125 | 100 | 110 | 88 | 88 | 62 | 49 | 54 |
| Preventive medicine/community health | 3,132 | 2,894 | 3,355 | 3,784 | 3,839 | 4,771 | 4,898 | 5,311 |
| Psychiatry | 41 | 34 | 32 | 12 | 12 | 30 | 38 | 44 |
| Pulmonary disease | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 |
| Radiology | 36 | 48 | 60 | 70 | 74 | 74 | 87 | 99 |
| Surgery | 7 | 5 | 11 | 5 | 4 | 4 | 6 | 21 |
| Clinical medicine, nec | 623 | 725 | 743 | 796 | 557 | 752 | 600 | 665 |
| Other health[b] | 15,251 | 16,555 | 16,789 | 16,330 | 16,234 | 15,603 | 12,860 | 11,450 |
| Dental sciences | 449 | 429 | 402 | 364 | 389 | 410 | 475 | 421 |
| Nursing | 3,352 | 3,948 | 3,944 | 3,953 | 3,950 | 3,584 | 2,315 | 1,386 |
| Pharmaceutical sciences | 1,024 | 1,246 | 1,036 | 712 | 732 | 691 | 756 | 662 |
| Speech pathology/audiology | 4,303 | 4,496 | 4,491 | 4,626 | 4,620 | 4,691 | 4,683 | 4,729 |
| Veterinary sciences | 324 | 343 | 378 | 478 | 524 | 439 | 342 | 334 |
| Other health, nec | 5,799 | 6,093 | 6,538 | 6,197 | 6,019 | 5,788 | 4,289 | 3,918 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 574,463 | 582,226 | 597,643 | 607,823 | 619,499 | 631,489 | 631,645 | 632,652 |
| U.S. citizens and permanent residents | 423,218 | 434,730 | 446,625 | 450,251 | 460,294 | 463,450 | 459,648 | 458,492 |
| Hispanic or Latino | 28,031 | 29,309 | 30,510 | 31,110 | 31,700 | 31,648 | 32,336 | 33,375 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 2,354 | 2,485 | 2,689 | 2,777 | 2,862 | 3,286 | 3,042 | 2,884 |
| Asian[b] | 36,084 | 36,432 | 36,635 | 36,924 | 37,297 | 36,579 | 37,310 | 37,228 |
| Black or African American | 32,496 | 33,547 | 34,866 | 34,934 | 35,923 | 37,047 | 37,349 | 38,199 |
| Native Hawaiian or Other Pacific Islander[b] | 1,651 | 1,332 | 1,228 | 1,472 | 1,485 | 1,426 | 1,350 | 1,354 |
| White | 288,574 | 292,276 | 299,275 | 298,917 | 306,001 | 306,989 | 302,677 | 299,993 |
| More than one race[b] | 569 | 629 | 608 | 662 | 667 | 1,556 | 2,645 | 5,816 |
| Unknown ethnicity/race | 33,459 | 38,720 | 40,814 | 43,455 | 44,359 | 44,919 | 42,939 | 39,643 |
| Temporary visa holders | 151,245 | 147,496 | 151,018 | 157,572 | 159,205 | 168,039 | 171,997 | 174,160 |
| Science and engineering | 475,873 | 478,275 | 486,287 | 502,375 | 516,199 | 529,275 | 545,685 | 556,532 |
| U.S. citizens and permanent residents | 332,022 | 338,513 | 343,603 | 353,142 | 365,091 | 369,781 | 382,342 | 390,403 |
| Hispanic or Latino | 22,212 | 23,387 | 24,140 | 25,032 | 25,739 | 26,098 | 27,265 | 28,609 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,848 | 1,958 | 2,112 | 2,168 | 2,262 | 2,618 | 2,549 | 2,500 |
| Asian[b] | 29,570 | 29,547 | 29,232 | 30,134 | 30,697 | 30,356 | 31,754 | 32,185 |
| Black or African American | 24,624 | 25,248 | 25,664 | 26,565 | 27,637 | 28,680 | 29,973 | 31,094 |
| Native Hawaiian or Other Pacific Islander[b] | 1,075 | 1,027 | 947 | 1,145 | 1,200 | 1,121 | 1,125 | 1,088 |
| White | 224,850 | 225,776 | 227,993 | 232,043 | 240,204 | 242,623 | 250,443 | 255,256 |
| More than one race[b] | 493 | 528 | 501 | 543 | 551 | 1,319 | 2,300 | 4,989 |
| Unknown ethnicity/race | 27,350 | 31,042 | 33,014 | 35,512 | 36,801 | 36,966 | 36,933 | 34,682 |
| Temporary visa holders | 143,851 | 139,762 | 142,684 | 149,233 | 151,108 | 159,494 | 163,343 | 166,129 |
| Science | 352,307 | 357,710 | 363,246 | 372,120 | 384,523 | 391,419 | 401,008 | 407,291 |
| U.S. citizens and permanent residents | 265,643 | 271,962 | 275,905 | 282,785 | 293,792 | 295,530 | 303,700 | 308,108 |
| Hispanic or Latino | 18,048 | 19,297 | 19,759 | 20,515 | 21,176 | 21,382 | 22,047 | 22,969 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,575 | 1,685 | 1,822 | 1,882 | 1,972 | 2,272 | 2,205 | 2,171 |
| Asian[b] | 20,007 | 19,952 | 20,182 | 20,818 | 21,261 | 20,808 | 21,976 | 21,915 |
| Black or African American | 21,225 | 21,778 | 22,092 | 22,881 | 23,862 | 24,694 | 25,801 | 26,914 |
| Native Hawaiian or Other Pacific Islander[b] | 926 | 892 | 818 | 946 | 998 | 965 | 976 | 914 |
| White | 181,615 | 182,908 | 184,700 | 187,292 | 194,875 | 195,037 | 200,047 | 202,386 |
| More than one race[b] | 437 | 454 | 448 | 457 | 464 | 1,147 | 1,950 | 3,987 |
| Unknown ethnicity/race | 21,810 | 24,996 | 26,084 | 27,994 | 29,184 | 29,225 | 28,698 | 26,852 |
| Temporary visa holders | 86,664 | 85,748 | 87,341 | 89,335 | 90,731 | 95,889 | 97,308 | 99,183 |
| Agricultural sciences | 13,445 | 13,123 | 13,016 | 13,222 | 13,528 | 14,153 | 15,200 | 15,656 |
| U.S. citizens and permanent residents | 10,750 | 10,464 | 10,341 | 10,487 | 10,631 | 11,047 | 11,938 | 12,416 |
| Hispanic or Latino | 524 | 506 | 535 | 576 | 604 | 611 | 749 | 770 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 82 | 76 | 85 | 87 | 88 | 130 | 134 | 146 |
| Asian[b] | 305 | 264 | 311 | 311 | 320 | 352 | 366 | 340 |
| Black or African American | 394 | 417 | 453 | 431 | 434 | 470 | 406 | 482 |
| Native Hawaiian or Other Pacific Islander[b] | 24 | 26 | 27 | 22 | 20 | 32 | 33 | 37 |
| White | 8,936 | 8,662 | 8,384 | 8,452 | 8,572 | 8,725 | 9,421 | 9,867 |
| More than one race[b] | 7 | 19 | 21 | 15 | 15 | 53 | 66 | 109 |
| Unknown ethnicity/race | 478 | 494 | 525 | 593 | 578 | 674 | 763 | 665 |
| Temporary visa holders | 2,695 | 2,659 | 2,675 | 2,735 | 2,897 | 3,106 | 3,262 | 3,240 |
| Biological sciences | 66,565 | 68,479 | 69,941 | 71,663 | 71,932 | 72,666 | 73,304 | 74,928 |
| U.S. citizens and permanent residents | 50,734 | 52,012 | 53,034 | 54,784 | 55,305 | 55,112 | 55,955 | 57,497 |
| Hispanic or Latino | 2,993 | 3,146 | 3,289 | 3,470 | 3,474 | 3,498 | 3,719 | 3,970 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 248 | 277 | 310 | 300 | 302 | 335 | 330 | 361 |
| Asian[b] | 4,985 | 5,157 | 5,467 | 5,738 | 5,802 | 5,513 | 5,878 | 6,105 |
| Black or African American | 2,902 | 2,991 | 3,071 | 3,303 | 3,320 | 3,394 | 3,575 | 3,653 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 292 | 263 | 242 | 278 | 311 | 286 | 286 | 242 |
| White | 36,053 | 36,627 | 37,163 | 37,605 | 37,682 | 37,585 | 37,464 | 38,386 |
| More than one race[b] | 97 | 113 | 86 | 78 | 81 | 192 | 265 | 635 |
| Unknown ethnicity/race | 3,164 | 3,438 | 3,406 | 4,012 | 4,333 | 4,309 | 4,438 | 4,145 |
| Temporary visa holders | 15,831 | 16,467 | 16,907 | 16,879 | 16,627 | 17,554 | 17,349 | 17,431 |
| Communication[a] | ne | ne | ne | ne | 7,303 | 8,444 | 9,418 | 9,825 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 6,150 | 7,049 | 7,806 | 8,301 |
| Hispanic or Latino | ne | ne | ne | ne | 386 | 437 | 443 | 563 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 32 | 50 | 52 | 63 |
| Asian[b] | ne | ne | ne | ne | 239 | 289 | 323 | 309 |
| Black or African American | ne | ne | ne | ne | 516 | 644 | 688 | 785 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 4 | 16 | 25 | 18 |
| White | ne | ne | ne | ne | 4,400 | 4,880 | 5,506 | 5,848 |
| More than one race[b] | ne | ne | ne | ne | 1 | 23 | 86 | 119 |
| Unknown ethnicity/race | ne | ne | ne | ne | 572 | 710 | 683 | 596 |
| Temporary visa holders | ne | ne | ne | ne | 1,153 | 1,395 | 1,612 | 1,524 |
| Computer sciences | 50,016 | 47,978 | 47,653 | 48,959 | 48,246 | 49,553 | 51,161 | 51,546 |
| U.S. citizens and permanent residents | 28,261 | 27,409 | 26,675 | 25,957 | 25,441 | 25,316 | 26,325 | 26,170 |
| Hispanic or Latino | 1,142 | 1,199 | 1,207 | 1,191 | 1,170 | 1,227 | 1,371 | 1,455 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 91 | 100 | 105 | 96 | 94 | 130 | 128 | 125 |
| Asian[b] | 5,024 | 4,501 | 4,149 | 3,790 | 3,685 | 3,578 | 3,854 | 3,543 |
| Black or African American | 1,799 | 1,761 | 1,774 | 1,865 | 1,834 | 1,889 | 2,088 | 2,228 |
| Native Hawaiian or Other Pacific Islander[b] | 78 | 72 | 73 | 48 | 47 | 40 | 62 | 59 |
| White | 16,938 | 16,555 | 15,943 | 15,089 | 14,811 | 14,930 | 15,533 | 15,604 |
| More than one race[b] | 26 | 22 | 18 | 14 | 14 | 48 | 121 | 298 |
| Unknown ethnicity/race | 3,163 | 3,199 | 3,406 | 3,864 | 3,786 | 3,474 | 3,168 | 2,858 |
| Temporary visa holders | 21,755 | 20,569 | 20,978 | 23,002 | 22,805 | 24,237 | 24,836 | 25,376 |
| Earth, atmospheric, and ocean sciences | 15,131 | 14,836 | 14,920 | 14,675 | 14,100 | 14,389 | 14,839 | 15,655 |
| U.S. citizens and permanent residents | 12,337 | 12,058 | 12,153 | 11,952 | 11,488 | 11,612 | 12,082 | 12,729 |
| Hispanic or Latino | 538 | 508 | 540 | 555 | 522 | 525 | 585 | 669 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 67 | 61 | 69 | 88 | 80 | 74 | 75 | 102 |
| Asian[b] | 402 | 364 | 363 | 403 | 372 | 372 | 389 | 402 |
| Black or African American | 261 | 262 | 263 | 279 | 272 | 301 | 311 | 328 |
| Native Hawaiian or Other Pacific Islander[b] | 26 | 36 | 26 | 18 | 16 | 15 | 26 | 19 |
| White | 10,342 | 10,126 | 10,116 | 9,783 | 9,443 | 9,354 | 9,651 | 10,141 |
| More than one race[b] | 25 | 16 | 14 | 13 | 13 | 37 | 55 | 146 |
| Unknown ethnicity/race | 676 | 685 | 762 | 813 | 770 | 934 | 990 | 922 |
| Temporary visa holders | 2,794 | 2,778 | 2,767 | 2,723 | 2,612 | 2,777 | 2,757 | 2,926 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 2,780 | 3,549 | 3,794 | 4,191 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 2,534 | 3,214 | 3,452 | 3,804 |
| Hispanic or Latino | ne | ne | ne | ne | 87 | 135 | 158 | 205 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 23 | 22 | 23 | 26 |
| Asian[b] | ne | ne | ne | ne | 90 | 145 | 136 | 147 |
| Black or African American | ne | ne | ne | ne | 322 | 397 | 538 | 595 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 0 | 0 | 1 | 2 |
| White | ne | ne | ne | ne | 1,870 | 2,247 | 2,390 | 2,548 |
| More than one race[b] | ne | ne | ne | ne | 3 | 9 | 5 | 37 |
| Unknown ethnicity/race | ne | ne | ne | ne | 139 | 259 | 201 | 244 |
| Temporary visa holders | ne | ne | ne | ne | 246 | 335 | 342 | 387 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mathematical sciences | 19,931 | 20,210 | 20,815 | 21,335 | 20,975 | 21,400 | 22,226 | 23,136 |
| U.S. citizens and permanent residents | 12,524 | 12,768 | 13,219 | 13,608 | 13,432 | 13,235 | 13,911 | 14,521 |
| Hispanic or Latino | 625 | 633 | 695 | 764 | 758 | 710 | 788 | 794 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 39 | 38 | 59 | 47 | 45 | 58 | 47 | 51 |
| Asian[b] | 1,267 | 1,335 | 1,378 | 1,379 | 1,348 | 1,304 | 1,389 | 1,501 |
| Black or African American | 696 | 720 | 711 | 711 | 708 | 681 | 730 | 740 |
| Native Hawaiian or Other Pacific Islander[b] | 31 | 37 | 35 | 39 | 39 | 56 | 68 | 34 |
| White | 8,859 | 8,916 | 9,201 | 9,329 | 9,219 | 9,154 | 9,527 | 9,722 |
| More than one race[b] | 21 | 17 | 18 | 15 | 15 | 25 | 147 | 248 |
| Unknown ethnicity/race | 986 | 1,072 | 1,122 | 1,324 | 1,300 | 1,247 | 1,215 | 1,431 |
| Temporary visa holders | 7,407 | 7,442 | 7,596 | 7,727 | 7,543 | 8,165 | 8,315 | 8,615 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 4,484 | 5,559 | 6,557 | 7,944 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 3,788 | 4,653 | 5,528 | 6,707 |
| Hispanic or Latino | ne | ne | ne | ne | 253 | 360 | 401 | 617 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 52 | 55 | 54 | 50 |
| Asian[b] | ne | ne | ne | ne | 209 | 243 | 288 | 343 |
| Black or African American | ne | ne | ne | ne | 320 | 388 | 480 | 561 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 15 | 13 | 14 | 8 |
| White | ne | ne | ne | ne | 2,457 | 2,959 | 3,422 | 4,199 |
| More than one race[b] | ne | ne | ne | ne | 1 | 7 | 32 | 72 |
| Unknown ethnicity/race | ne | ne | ne | ne | 481 | 628 | 837 | 857 |
| Temporary visa holders | ne | ne | ne | ne | 696 | 906 | 1,029 | 1,237 |
| Neuroscience[a] | na | na | na | na | 1,584 | 2,012 | 2,356 | 2,798 |
| U.S. citizens and permanent residents | na | na | na | na | 1,253 | 1,634 | 1,949 | 2,332 |
| Hispanic or Latino | na | na | na | na | 81 | 100 | 118 | 166 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 7 | 11 | 12 | 10 |
| Asian[b] | na | na | na | na | 137 | 180 | 218 | 244 |
| Black or African American | na | na | na | na | 61 | 67 | 88 | 86 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 4 | 6 | 4 | 5 |
| White | na | na | na | na | 893 | 1,153 | 1,326 | 1,650 |
| More than one race[b] | na | na | na | na | 0 | 2 | 7 | 13 |
| Unknown ethnicity/race | na | na | na | na | 70 | 115 | 176 | 158 |
| Temporary visa holders | na | na | na | na | 331 | 378 | 407 | 466 |
| Physical sciences | 35,761 | 36,375 | 36,901 | 37,111 | 36,824 | 37,319 | 38,149 | 38,973 |
| U.S. citizens and permanent residents | 21,148 | 21,675 | 22,144 | 22,636 | 22,417 | 22,556 | 23,071 | 23,652 |
| Hispanic or Latino | 1,233 | 1,242 | 1,256 | 1,270 | 1,264 | 1,268 | 1,282 | 1,364 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 78 | 82 | 118 | 105 | 103 | 111 | 119 | 102 |
| Asian[b] | 1,620 | 1,590 | 1,713 | 1,847 | 1,833 | 1,735 | 1,818 | 1,785 |
| Black or African American | 993 | 1,006 | 1,009 | 984 | 980 | 1,009 | 979 | 1,008 |
| Native Hawaiian or Other Pacific Islander[b] | 58 | 41 | 40 | 45 | 44 | 36 | 53 | 38 |
| White | 15,726 | 16,299 | 16,325 | 16,628 | 16,451 | 16,520 | 16,933 | 17,319 |
| More than one race[b] | 22 | 35 | 25 | 28 | 28 | 85 | 90 | 268 |
| Unknown ethnicity/race | 1,418 | 1,380 | 1,658 | 1,729 | 1,714 | 1,792 | 1,797 | 1,768 |
| Temporary visa holders | 14,613 | 14,700 | 14,757 | 14,475 | 14,407 | 14,763 | 15,078 | 15,321 |
| Psychology[b] | 54,126 | 57,282 | 57,653 | 60,284 | 59,617 | 58,991 | 56,184 | 53,419 |
| U.S. citizens and permanent residents | 50,932 | 54,228 | 54,802 | 57,171 | 56,574 | 55,912 | 53,246 | 50,332 |
| Hispanic or Latino | 4,791 | 5,101 | 5,222 | 5,526 | 5,506 | 5,543 | 5,003 | 4,859 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 323 | 332 | 344 | 404 | 402 | 398 | 384 | 353 |
| Asian[b] | 2,355 | 2,417 | 2,500 | 2,771 | 2,741 | 2,687 | 2,562 | 2,429 |
| Black or African American | 4,990 | 5,238 | 5,089 | 5,140 | 5,100 | 5,358 | 5,393 | 5,442 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 88 | 134 | 112 | 125 | 128 | 123 | 97 | 122 |
| White | 33,580 | 34,359 | 35,045 | 36,976 | 36,519 | 35,530 | 34,342 | 32,043 |
| More than one race[b] | 67 | 70 | 75 | 73 | 73 | 173 | 387 | 658 |
| Unknown ethnicity/race | 4,738 | 6,577 | 6,415 | 6,156 | 6,105 | 6,100 | 5,078 | 4,426 |
| Temporary visa holders | 3,194 | 3,054 | 2,851 | 3,113 | 3,043 | 3,079 | 2,938 | 3,087 |
| Social sciences | 97,332 | 99,427 | 102,347 | 104,871 | 103,150 | 103,384 | 107,820 | 109,220 |
| U.S. citizens and permanent residents | 78,957 | 81,348 | 83,537 | 86,190 | 84,779 | 84,190 | 88,437 | 89,647 |
| Hispanic or Latino | 6,202 | 6,962 | 7,015 | 7,163 | 7,071 | 6,968 | 7,430 | 7,537 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 647 | 719 | 732 | 755 | 744 | 898 | 847 | 782 |
| Asian[b] | 4,049 | 4,324 | 4,301 | 4,579 | 4,485 | 4,410 | 4,755 | 4,767 |
| Black or African American | 9,190 | 9,383 | 9,722 | 10,168 | 9,995 | 10,096 | 10,525 | 11,006 |
| Native Hawaiian or Other Pacific Islander[b] | 329 | 283 | 263 | 371 | 370 | 342 | 307 | 330 |
| White | 51,181 | 51,364 | 52,523 | 53,430 | 52,558 | 52,000 | 54,532 | 55,059 |
| More than one race[b] | 172 | 162 | 191 | 221 | 220 | 493 | 689 | 1,384 |
| Unknown ethnicity/race | 7,187 | 8,151 | 8,790 | 9,503 | 9,336 | 8,983 | 9,352 | 8,782 |
| Temporary visa holders | 18,375 | 18,079 | 18,810 | 18,681 | 18,371 | 19,194 | 19,383 | 19,573 |
| Engineering | 123,566 | 120,565 | 123,041 | 130,255 | 131,676 | 137,856 | 144,677 | 149,241 |
| U.S. citizens and permanent residents | 66,379 | 66,551 | 67,698 | 70,357 | 71,299 | 74,251 | 78,642 | 82,295 |
| Hispanic or Latino | 4,164 | 4,090 | 4,381 | 4,517 | 4,563 | 4,716 | 5,218 | 5,640 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 273 | 273 | 290 | 286 | 290 | 346 | 344 | 329 |
| Asian[b] | 9,563 | 9,595 | 9,050 | 9,316 | 9,436 | 9,548 | 9,778 | 10,270 |
| Black or African American | 3,399 | 3,470 | 3,572 | 3,684 | 3,775 | 3,986 | 4,172 | 4,180 |
| Native Hawaiian or Other Pacific Islander[b] | 149 | 135 | 129 | 199 | 202 | 156 | 149 | 174 |
| White | 43,235 | 42,868 | 43,293 | 44,751 | 45,329 | 47,586 | 50,396 | 52,870 |
| More than one race[b] | 56 | 74 | 53 | 86 | 87 | 172 | 350 | 1,002 |
| Unknown ethnicity/race | 5,540 | 6,046 | 6,930 | 7,518 | 7,617 | 7,741 | 8,235 | 7,830 |
| Temporary visa holders | 57,187 | 54,014 | 55,343 | 59,898 | 60,377 | 63,605 | 66,035 | 66,946 |
| Aerospace engineering | 4,089 | 4,170 | 4,482 | 4,616 | 4,616 | 4,902 | 5,266 | 5,540 |
| U.S. citizens and permanent residents | 2,401 | 2,528 | 2,998 | 3,090 | 3,090 | 3,311 | 3,605 | 3,893 |
| Hispanic or Latino | 118 | 116 | 136 | 145 | 145 | 159 | 195 | 240 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 16 | 13 | 10 | 13 | 13 | 18 | 16 | 11 |
| Asian[b] | 210 | 250 | 311 | 346 | 346 | 363 | 370 | 416 |
| Black or African American | 68 | 73 | 79 | 81 | 81 | 103 | 108 | 92 |
| Native Hawaiian or Other Pacific Islander[b] | 2 | 1 | 1 | 0 | 0 | 3 | 7 | 3 |
| White | 1,791 | 1,844 | 1,969 | 2,152 | 2,152 | 2,244 | 2,485 | 2,702 |
| More than one race[b] | 1 | 1 | 0 | 3 | 3 | 3 | 23 | 49 |
| Unknown ethnicity/race | 195 | 230 | 492 | 350 | 350 | 418 | 401 | 380 |
| Temporary visa holders | 1,688 | 1,642 | 1,484 | 1,526 | 1,526 | 1,591 | 1,661 | 1,647 |
| Agricultural engineering | 1,041 | 1,059 | 1,073 | 1,126 | 1,126 | 1,233 | 1,303 | 1,457 |
| U.S. citizens and permanent residents | 556 | 538 | 524 | 542 | 542 | 566 | 630 | 681 |
| Hispanic or Latino | 8 | 13 | 16 | 14 | 14 | 21 | 27 | 30 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1 | 3 | 5 | 2 | 2 | 2 | 1 | 4 |
| Asian[b] | 46 | 36 | 33 | 32 | 32 | 27 | 23 | 38 |
| Black or African American | 23 | 25 | 27 | 22 | 22 | 20 | 30 | 33 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 |
| White | 463 | 441 | 425 | 439 | 439 | 473 | 513 | 528 |
| More than one race[b] | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 6 |
| Unknown ethnicity/race | 14 | 19 | 16 | 29 | 29 | 23 | 34 | 42 |
| Temporary visa holders | 485 | 521 | 549 | 584 | 584 | 667 | 673 | 776 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Architecture[a] | na | na | na | na | 4,601 | 5,905 | 6,804 | 6,795 |
| U.S. citizens and permanent residents | na | na | na | na | 3,707 | 4,840 | 5,611 | 5,548 |
| Hispanic or Latino | na | na | na | na | 208 | 385 | 454 | 420 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 15 | 42 | 32 | 36 |
| Asian[b] | na | na | na | na | 223 | 291 | 320 | 361 |
| Black or African American | na | na | na | na | 219 | 282 | 300 | 277 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 5 | 8 | 5 | 8 |
| White | na | na | na | na | 2,730 | 3,417 | 3,968 | 3,928 |
| More than one race[b] | na | na | na | na | 1 | 12 | 32 | 95 |
| Unknown ethnicity/race | na | na | na | na | 306 | 403 | 500 | 423 |
| Temporary visa holders | na | na | na | na | 894 | 1,065 | 1,193 | 1,247 |
| Biomedical engineering | 5,807 | 6,067 | 6,482 | 6,881 | 6,904 | 7,339 | 7,904 | 8,497 |
| U.S. citizens and permanent residents | 3,675 | 3,921 | 4,298 | 4,524 | 4,541 | 4,772 | 5,237 | 5,803 |
| Hispanic or Latino | 180 | 192 | 237 | 242 | 242 | 226 | 301 | 325 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 15 | 13 | 18 | 19 | 19 | 21 | 20 | 19 |
| Asian[b] | 725 | 781 | 863 | 939 | 940 | 919 | 1,101 | 1,185 |
| Black or African American | 191 | 192 | 204 | 206 | 206 | 224 | 245 | 240 |
| Native Hawaiian or Other Pacific Islander[b] | 17 | 14 | 14 | 12 | 12 | 20 | 15 | 17 |
| White | 2,314 | 2,424 | 2,626 | 2,646 | 2,662 | 2,932 | 3,142 | 3,526 |
| More than one race[b] | 0 | 5 | 9 | 8 | 8 | 14 | 43 | 77 |
| Unknown ethnicity/race | 233 | 300 | 327 | 452 | 452 | 416 | 370 | 414 |
| Temporary visa holders | 2,132 | 2,146 | 2,184 | 2,357 | 2,363 | 2,567 | 2,667 | 2,694 |
| Chemical engineering | 7,452 | 7,173 | 7,261 | 7,383 | 7,584 | 7,892 | 8,188 | 8,668 |
| U.S. citizens and permanent residents | 3,753 | 3,675 | 3,685 | 3,647 | 3,744 | 3,821 | 4,022 | 4,272 |
| Hispanic or Latino | 249 | 240 | 277 | 261 | 261 | 238 | 225 | 279 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 27 | 24 | 20 | 16 | 16 | 15 | 14 | 18 |
| Asian[b] | 443 | 480 | 485 | 455 | 465 | 492 | 533 | 588 |
| Black or African American | 169 | 146 | 149 | 149 | 155 | 150 | 172 | 164 |
| Native Hawaiian or Other Pacific Islander[b] | 10 | 13 | 11 | 20 | 20 | 2 | 3 | 16 |
| White | 2,666 | 2,561 | 2,556 | 2,520 | 2,601 | 2,672 | 2,809 | 2,872 |
| More than one race[b] | 8 | 12 | 3 | 1 | 1 | 9 | 12 | 40 |
| Unknown ethnicity/race | 181 | 199 | 184 | 225 | 225 | 243 | 254 | 295 |
| Temporary visa holders | 3,699 | 3,498 | 3,576 | 3,736 | 3,840 | 4,071 | 4,166 | 4,396 |
| Civil engineering[a] | 18,561 | 18,114 | 17,802 | 19,867 | 16,071 | 16,931 | 18,638 | 19,559 |
| U.S. citizens and permanent residents | 11,436 | 11,415 | 11,421 | 13,051 | 9,972 | 10,477 | 11,750 | 12,482 |
| Hispanic or Latino | 898 | 896 | 967 | 1,068 | 892 | 796 | 915 | 1,091 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 51 | 52 | 62 | 70 | 58 | 50 | 59 | 55 |
| Asian[b] | 977 | 982 | 936 | 1,029 | 851 | 921 | 1,109 | 1,244 |
| Black or African American | 453 | 456 | 508 | 603 | 461 | 475 | 528 | 594 |
| Native Hawaiian or Other Pacific Islander[b] | 20 | 24 | 21 | 25 | 23 | 28 | 27 | 42 |
| White | 8,270 | 8,139 | 7,971 | 9,115 | 6,807 | 7,265 | 7,884 | 8,245 |
| More than one race[b] | 2 | 6 | 7 | 6 | 6 | 24 | 51 | 270 |
| Unknown ethnicity/race | 765 | 860 | 949 | 1,135 | 874 | 918 | 1,177 | 941 |
| Temporary visa holders | 7,125 | 6,699 | 6,381 | 6,816 | 6,099 | 6,454 | 6,888 | 7,077 |
| Electrical engineering | 38,995 | 37,450 | 38,265 | 40,207 | 40,588 | 41,164 | 41,218 | 41,336 |
| U.S. citizens and permanent residents | 16,878 | 16,662 | 16,166 | 15,759 | 16,024 | 16,042 | 15,936 | 16,109 |
| Hispanic or Latino | 1,097 | 1,090 | 1,044 | 979 | 996 | 1,007 | 1,072 | 1,157 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 54 | 54 | 46 | 47 | 48 | 61 | 54 | 48 |
| Asian[b] | 3,781 | 3,729 | 3,388 | 3,035 | 3,100 | 3,086 | 3,015 | 2,956 |
| Black or African American | 850 | 843 | 828 | 842 | 861 | 864 | 900 | 937 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 42 | 33 | 26 | 64 | 64 | 41 | 26 | 29 |
| White | 9,444 | 9,150 | 8,875 | 8,789 | 8,933 | 8,734 | 8,908 | 9,035 |
| More than one race[b] | 25 | 33 | 19 | 16 | 16 | 30 | 63 | 157 |
| Unknown ethnicity/race | 1,585 | 1,730 | 1,940 | 1,987 | 2,006 | 2,219 | 1,898 | 1,790 |
| Temporary visa holders | 22,117 | 20,788 | 22,099 | 24,448 | 24,564 | 25,122 | 25,282 | 25,227 |
| Engineering science | 2,198 | 1,951 | 2,046 | 1,843 | 1,806 | 2,099 | 2,168 | 2,071 |
| U.S. citizens and permanent residents | 1,187 | 1,096 | 1,170 | 1,024 | 989 | 1,216 | 1,229 | 1,185 |
| Hispanic or Latino | 45 | 43 | 46 | 35 | 32 | 63 | 69 | 65 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 11 | 9 | 9 | 8 | 7 | 7 | 6 | 3 |
| Asian[b] | 162 | 143 | 156 | 153 | 141 | 142 | 134 | 146 |
| Black or African American | 38 | 36 | 44 | 28 | 28 | 42 | 51 | 44 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 0 | 3 | 2 | 2 | 3 | 0 | 0 |
| White | 865 | 793 | 830 | 719 | 709 | 827 | 821 | 784 |
| More than one race[b] | 1 | 3 | 3 | 1 | 1 | 3 | 5 | 24 |
| Unknown ethnicity/race | 64 | 69 | 79 | 78 | 69 | 129 | 143 | 119 |
| Temporary visa holders | 1,011 | 855 | 876 | 819 | 817 | 883 | 939 | 886 |
| Industrial engineering | 13,852 | 13,650 | 13,829 | 14,290 | 14,474 | 15,692 | 15,825 | 15,205 |
| U.S. citizens and permanent residents | 8,763 | 9,071 | 9,249 | 9,020 | 9,090 | 9,464 | 9,511 | 9,028 |
| Hispanic or Latino | 629 | 579 | 664 | 661 | 664 | 703 | 717 | 677 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 48 | 51 | 55 | 46 | 47 | 51 | 61 | 43 |
| Asian[b] | 916 | 1,019 | 995 | 1,022 | 1,057 | 1,066 | 959 | 914 |
| Black or African American | 714 | 764 | 763 | 741 | 734 | 849 | 826 | 708 |
| Native Hawaiian or Other Pacific Islander[b] | 13 | 7 | 15 | 10 | 11 | 3 | 18 | 14 |
| White | 5,484 | 5,658 | 5,586 | 5,300 | 5,293 | 5,543 | 5,305 | 5,011 |
| More than one race[b] | 9 | 4 | 0 | 2 | 2 | 47 | 41 | 63 |
| Unknown ethnicity/race | 950 | 989 | 1,171 | 1,238 | 1,282 | 1,202 | 1,584 | 1,598 |
| Temporary visa holders | 5,089 | 4,579 | 4,580 | 5,270 | 5,384 | 6,228 | 6,314 | 6,177 |
| Mechanical engineering | 17,852 | 17,373 | 17,919 | 18,366 | 18,347 | 19,585 | 21,243 | 22,509 |
| U.S. citizens and permanent residents | 9,724 | 9,719 | 10,205 | 10,495 | 10,481 | 11,075 | 11,893 | 12,986 |
| Hispanic or Latino | 566 | 575 | 621 | 653 | 656 | 685 | 749 | 827 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 24 | 28 | 32 | 33 | 33 | 37 | 43 | 46 |
| Asian[b] | 947 | 945 | 914 | 1,224 | 1,225 | 1,258 | 1,197 | 1,328 |
| Black or African American | 369 | 411 | 419 | 409 | 408 | 425 | 431 | 456 |
| Native Hawaiian or Other Pacific Islander[b] | 26 | 17 | 26 | 18 | 18 | 22 | 28 | 24 |
| White | 6,998 | 6,898 | 7,337 | 7,232 | 7,213 | 7,591 | 8,334 | 9,135 |
| More than one race[b] | 6 | 5 | 4 | 41 | 41 | 12 | 48 | 129 |
| Unknown ethnicity/race | 788 | 840 | 852 | 885 | 887 | 1,045 | 1,063 | 1,041 |
| Temporary visa holders | 8,128 | 7,654 | 7,714 | 7,871 | 7,866 | 8,510 | 9,350 | 9,523 |
| Metallurgical/materials engineering | 5,059 | 5,160 | 5,268 | 5,365 | 5,314 | 5,539 | 5,863 | 6,274 |
| U.S. citizens and permanent residents | 2,501 | 2,518 | 2,690 | 2,739 | 2,719 | 2,796 | 2,949 | 3,197 |
| Hispanic or Latino | 99 | 106 | 98 | 116 | 117 | 118 | 145 | 170 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 6 | 5 | 8 | 9 | 9 | 13 | 11 | 12 |
| Asian[b] | 337 | 307 | 335 | 331 | 328 | 350 | 361 | 416 |
| Black or African American | 105 | 102 | 129 | 131 | 127 | 126 | 112 | 130 |
| Native Hawaiian or Other Pacific Islander[b] | 9 | 8 | 2 | 10 | 10 | 9 | 1 | 2 |
| White | 1,815 | 1,859 | 1,926 | 1,924 | 1,900 | 1,988 | 2,119 | 2,252 |
| More than one race[b] | 2 | 2 | 3 | 3 | 3 | 8 | 15 | 31 |
| Unknown ethnicity/race | 128 | 129 | 189 | 215 | 225 | 184 | 185 | 184 |
| Temporary visa holders | 2,558 | 2,642 | 2,578 | 2,626 | 2,595 | 2,743 | 2,914 | 3,077 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 308 | 279 | 244 | 307 | 222 | 290 | 312 | 419 |
| U.S. citizens and permanent residents | 189 | 161 | 129 | 183 | 130 | 165 | 197 | 197 |
| Hispanic or Latino | 10 | 9 | 5 | 5 | 4 | 9 | 10 | 5 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1 | 0 | 1 | 0 | 0 | 3 | 1 | 2 |
| Asian[b] | 5 | 6 | 1 | 10 | 8 | 7 | 9 | 4 |
| Black or African American | 5 | 3 | 3 | 7 | 0 | 4 | 8 | 12 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| White | 157 | 121 | 108 | 151 | 111 | 133 | 156 | 160 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Unknown ethnicity/race | 10 | 22 | 11 | 10 | 7 | 9 | 10 | 12 |
| Temporary visa holders | 119 | 118 | 115 | 124 | 92 | 125 | 115 | 222 |
| Nuclear engineering | 971 | 1,013 | 1,099 | 1,208 | 1,180 | 1,201 | 1,243 | 1,459 |
| U.S. citizens and permanent residents | 616 | 674 | 780 | 924 | 904 | 933 | 958 | 1,163 |
| Hispanic or Latino | 28 | 38 | 60 | 49 | 48 | 47 | 42 | 53 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 3 | 3 | 2 | 2 | 2 | 4 | 4 | 4 |
| Asian[b] | 42 | 45 | 45 | 47 | 47 | 54 | 57 | 68 |
| Black or African American | 20 | 21 | 18 | 22 | 22 | 26 | 22 | 23 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 2 | 0 | 1 | 1 | 6 | 1 | 2 |
| White | 492 | 534 | 603 | 699 | 681 | 734 | 763 | 912 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 13 |
| Unknown ethnicity/race | 31 | 31 | 52 | 104 | 103 | 61 | 69 | 88 |
| Temporary visa holders | 355 | 339 | 319 | 284 | 276 | 268 | 285 | 296 |
| Petroleum engineering | 845 | 808 | 813 | 1,014 | 1,014 | 1,009 | 1,190 | 1,295 |
| U.S. citizens and permanent residents | 194 | 192 | 195 | 258 | 258 | 217 | 252 | 293 |
| Hispanic or Latino | 15 | 17 | 22 | 32 | 32 | 18 | 20 | 23 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Asian[b] | 24 | 21 | 15 | 17 | 17 | 20 | 25 | 42 |
| Black or African American | 21 | 31 | 24 | 43 | 43 | 29 | 23 | 29 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White | 123 | 114 | 117 | 150 | 150 | 138 | 176 | 184 |
| More than one race[b] | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Unknown ethnicity/race | 10 | 9 | 17 | 16 | 16 | 11 | 7 | 13 |
| Temporary visa holders | 651 | 616 | 618 | 756 | 756 | 792 | 938 | 1,002 |
| Engineering, nec | 6,536 | 6,298 | 6,458 | 7,782 | 7,829 | 7,075 | 7,512 | 8,157 |
| U.S. citizens and permanent residents | 4,506 | 4,381 | 4,188 | 5,101 | 5,108 | 4,556 | 4,862 | 5,458 |
| Hispanic or Latino | 222 | 176 | 188 | 257 | 252 | 241 | 277 | 278 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 16 | 18 | 22 | 21 | 21 | 21 | 21 | 28 |
| Asian[b] | 948 | 851 | 573 | 676 | 656 | 552 | 565 | 564 |
| Black or African American | 373 | 367 | 377 | 400 | 408 | 367 | 416 | 441 |
| Native Hawaiian or Other Pacific Islander[b] | 7 | 15 | 9 | 35 | 34 | 11 | 16 | 17 |
| White | 2,353 | 2,332 | 2,364 | 2,915 | 2,948 | 2,895 | 3,013 | 3,596 |
| More than one race[b] | 1 | 3 | 4 | 3 | 3 | 9 | 14 | 44 |
| Unknown ethnicity/race | 586 | 619 | 651 | 794 | 786 | 460 | 540 | 490 |
| Temporary visa holders | 2,030 | 1,917 | 2,270 | 2,681 | 2,721 | 2,519 | 2,650 | 2,699 |
| Health[a,c] | 98,590 | 103,951 | 111,356 | 105,448 | 103,300 | 102,214 | 85,960 | 76,120 |
| U.S. citizens and permanent residents | 91,196 | 96,217 | 103,022 | 97,109 | 95,203 | 93,669 | 77,306 | 68,089 |
| Hispanic or Latino | 5,819 | 5,922 | 6,370 | 6,078 | 5,961 | 5,550 | 5,071 | 4,766 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 506 | 527 | 577 | 609 | 600 | 668 | 493 | 384 |
| Asian[b] | 6,514 | 6,885 | 7,403 | 6,790 | 6,600 | 6,223 | 5,556 | 5,043 |
| Black or African American | 7,872 | 8,299 | 9,202 | 8,369 | 8,286 | 8,367 | 7,376 | 7,105 |

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 576 | 305 | 281 | 327 | 285 | 305 | 225 | 266 |
| White | 63,724 | 66,500 | 71,282 | 66,874 | 65,797 | 64,366 | 52,234 | 44,737 |
| More than one race[b] | 76 | 101 | 107 | 119 | 116 | 237 | 345 | 827 |
| Unknown ethnicity/race | 6,109 | 7,678 | 7,800 | 7,943 | 7,558 | 7,953 | 6,006 | 4,961 |
| Temporary visa holders | 7,394 | 7,734 | 8,334 | 8,339 | 8,097 | 8,545 | 8,654 | 8,031 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."
[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 277,749 | 286,935 | 297,825 | 299,671 | 307,490 | 311,179 | 303,120 | 297,171 |
| U.S. citizens and permanent residents | 227,554 | 237,029 | 246,041 | 245,526 | 252,309 | 252,329 | 242,387 | 235,235 |
| Hispanic or Latino | 16,067 | 17,035 | 17,829 | 18,106 | 18,527 | 18,379 | 18,140 | 18,364 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,396 | 1,488 | 1,593 | 1,651 | 1,713 | 1,946 | 1,749 | 1,647 |
| Asian[b] | 17,849 | 18,346 | 18,663 | 18,631 | 18,885 | 18,536 | 18,518 | 18,014 |
| Black or African American | 21,339 | 22,429 | 23,416 | 23,274 | 24,013 | 24,595 | 24,539 | 24,844 |
| Native Hawaiian or Other Pacific Islander[b] | 1,021 | 766 | 697 | 856 | 863 | 799 | 752 | 754 |
| White | 152,593 | 156,051 | 162,059 | 160,001 | 164,684 | 163,522 | 155,553 | 149,137 |
| More than one race[b] | 325 | 351 | 370 | 372 | 375 | 900 | 1,535 | 3,197 |
| Unknown ethnicity/race | 16,964 | 20,563 | 21,414 | 22,635 | 23,249 | 23,652 | 21,601 | 19,278 |
| Temporary visa holders | 50,195 | 49,906 | 51,784 | 54,145 | 55,181 | 58,850 | 60,733 | 61,936 |
| Science and engineering | 201,865 | 206,308 | 211,106 | 218,295 | 227,273 | 231,997 | 237,749 | 240,481 |
| U.S. citizens and permanent residents | 155,725 | 160,613 | 163,820 | 168,644 | 176,449 | 177,792 | 181,700 | 182,995 |
| Hispanic or Latino | 11,621 | 12,468 | 12,839 | 13,361 | 13,848 | 14,025 | 14,235 | 14,813 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,001 | 1,050 | 1,133 | 1,167 | 1,235 | 1,431 | 1,370 | 1,351 |
| Asian[b] | 13,176 | 13,344 | 13,289 | 13,754 | 14,118 | 13,954 | 14,504 | 14,386 |
| Black or African American | 14,847 | 15,623 | 15,884 | 16,371 | 17,162 | 17,706 | 18,519 | 19,160 |
| Native Hawaiian or Other Pacific Islander[b] | 529 | 541 | 477 | 622 | 644 | 573 | 578 | 554 |
| White | 101,912 | 102,589 | 104,515 | 106,672 | 111,932 | 112,046 | 114,287 | 114,557 |
| More than one race[b] | 266 | 280 | 290 | 275 | 281 | 709 | 1,267 | 2,578 |
| Unknown ethnicity/race | 12,373 | 14,718 | 15,393 | 16,422 | 17,229 | 17,348 | 16,940 | 15,596 |
| Temporary visa holders | 46,140 | 45,695 | 47,286 | 49,651 | 50,824 | 54,205 | 56,049 | 57,486 |
| Science | 174,593 | 179,413 | 183,162 | 188,321 | 196,801 | 200,460 | 204,431 | 206,028 |
| U.S. citizens and permanent residents | 140,480 | 145,333 | 148,354 | 152,294 | 159,749 | 160,796 | 163,806 | 164,531 |
| Hispanic or Latino | 10,522 | 11,371 | 11,644 | 12,119 | 12,592 | 12,775 | 12,884 | 13,352 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 926 | 983 | 1,061 | 1,105 | 1,170 | 1,334 | 1,292 | 1,266 |
| Asian[b] | 10,260 | 10,389 | 10,736 | 11,164 | 11,484 | 11,379 | 11,863 | 11,648 |
| Black or African American | 13,718 | 14,523 | 14,755 | 15,160 | 15,908 | 16,423 | 17,204 | 17,860 |
| Native Hawaiian or Other Pacific Islander[b] | 485 | 495 | 434 | 546 | 568 | 525 | 536 | 507 |
| White | 93,054 | 93,902 | 95,514 | 97,161 | 102,213 | 101,981 | 103,682 | 103,553 |
| More than one race[b] | 253 | 266 | 270 | 261 | 266 | 663 | 1,169 | 2,332 |
| Unknown ethnicity/race | 11,262 | 13,404 | 13,940 | 14,778 | 15,548 | 15,716 | 15,176 | 14,013 |
| Temporary visa holders | 34,113 | 34,080 | 34,808 | 36,027 | 37,052 | 39,664 | 40,625 | 41,497 |
| Agricultural sciences | 6,258 | 6,202 | 6,299 | 6,444 | 6,627 | 6,891 | 7,485 | 7,819 |
| U.S. citizens and permanent residents | 5,167 | 5,112 | 5,157 | 5,258 | 5,357 | 5,488 | 5,965 | 6,253 |
| Hispanic or Latino | 257 | 263 | 277 | 301 | 316 | 322 | 373 | 412 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 47 | 45 | 46 | 48 | 48 | 77 | 77 | 87 |
| Asian[b] | 179 | 144 | 168 | 171 | 176 | 214 | 204 | 199 |
| Black or African American | 241 | 245 | 301 | 283 | 282 | 289 | 244 | 277 |
| Native Hawaiian or Other Pacific Islander[b] | 14 | 14 | 5 | 7 | 7 | 15 | 19 | 20 |
| White | 4,191 | 4,146 | 4,070 | 4,136 | 4,220 | 4,184 | 4,602 | 4,835 |
| More than one race[b] | 4 | 9 | 14 | 7 | 7 | 34 | 46 | 71 |
| Unknown ethnicity/race | 234 | 246 | 276 | 305 | 301 | 353 | 400 | 352 |
| Temporary visa holders | 1,091 | 1,090 | 1,142 | 1,186 | 1,270 | 1,403 | 1,520 | 1,566 |
| Biological sciences | 37,289 | 38,521 | 39,369 | 40,651 | 40,754 | 41,334 | 41,818 | 42,571 |
| U.S. citizens and permanent residents | 28,741 | 29,603 | 30,304 | 31,494 | 31,725 | 31,762 | 32,283 | 33,041 |
| Hispanic or Latino | 1,741 | 1,826 | 1,926 | 2,074 | 2,070 | 2,093 | 2,254 | 2,447 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 157 | 164 | 182 | 166 | 167 | 187 | 194 | 213 |
| Asian[b] | 2,873 | 2,978 | 3,216 | 3,350 | 3,387 | 3,264 | 3,438 | 3,546 |
| Black or African American | 2,033 | 2,063 | 2,123 | 2,261 | 2,271 | 2,301 | 2,456 | 2,474 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 152 | 148 | 139 | 157 | 166 | 162 | 170 | 129 |
| White | 20,022 | 20,415 | 20,772 | 21,115 | 21,136 | 21,173 | 21,086 | 21,473 |
| More than one race[b] | 51 | 60 | 44 | 39 | 42 | 103 | 155 | 395 |
| Unknown ethnicity/race | 1,712 | 1,949 | 1,902 | 2,332 | 2,486 | 2,479 | 2,530 | 2,364 |
| Temporary visa holders | 8,548 | 8,918 | 9,065 | 9,157 | 9,029 | 9,572 | 9,535 | 9,530 |
| Communication[a] | ne | ne | ne | ne | 4,647 | 5,381 | 6,029 | 6,353 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 3,927 | 4,517 | 4,991 | 5,307 |
| Hispanic or Latino | ne | ne | ne | ne | 270 | 302 | 295 | 367 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 19 | 35 | 36 | 45 |
| Asian[b] | ne | ne | ne | ne | 162 | 191 | 217 | 221 |
| Black or African American | ne | ne | ne | ne | 375 | 436 | 459 | 541 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 3 | 4 | 20 | 12 |
| White | ne | ne | ne | ne | 2,733 | 3,060 | 3,490 | 3,662 |
| More than one race[b] | ne | ne | ne | ne | 1 | 10 | 57 | 81 |
| Unknown ethnicity/race | ne | ne | ne | ne | 364 | 479 | 417 | 378 |
| Temporary visa holders | ne | ne | ne | ne | 720 | 864 | 1,038 | 1,046 |
| Computer sciences | 13,277 | 12,045 | 12,062 | 12,206 | 12,017 | 12,545 | 13,053 | 12,807 |
| U.S. citizens and permanent residents | 7,362 | 6,776 | 6,741 | 6,169 | 6,020 | 6,015 | 6,300 | 6,048 |
| Hispanic or Latino | 283 | 272 | 271 | 286 | 282 | 287 | 293 | 334 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 30 | 33 | 27 | 16 | 15 | 34 | 28 | 31 |
| Asian[b] | 1,624 | 1,386 | 1,283 | 1,145 | 1,109 | 1,087 | 1,170 | 980 |
| Black or African American | 708 | 714 | 722 | 704 | 695 | 708 | 799 | 822 |
| Native Hawaiian or Other Pacific Islander[b] | 27 | 17 | 17 | 9 | 8 | 16 | 16 | 13 |
| White | 3,849 | 3,621 | 3,581 | 3,091 | 3,012 | 3,064 | 3,192 | 3,133 |
| More than one race[b] | 6 | 6 | 4 | 1 | 1 | 9 | 34 | 81 |
| Unknown ethnicity/race | 835 | 727 | 836 | 917 | 898 | 810 | 768 | 654 |
| Temporary visa holders | 5,915 | 5,269 | 5,321 | 6,037 | 5,997 | 6,530 | 6,753 | 6,759 |
| Earth, atmospheric, and ocean sciences | 6,932 | 6,895 | 7,004 | 6,951 | 6,650 | 6,621 | 6,815 | 7,200 |
| U.S. citizens and permanent residents | 5,854 | 5,796 | 5,898 | 5,853 | 5,593 | 5,477 | 5,717 | 6,015 |
| Hispanic or Latino | 302 | 281 | 311 | 303 | 283 | 280 | 308 | 336 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 27 | 31 | 26 | 35 | 31 | 35 | 29 | 46 |
| Asian[b] | 213 | 191 | 200 | 210 | 187 | 192 | 212 | 215 |
| Black or African American | 141 | 152 | 145 | 155 | 151 | 161 | 158 | 158 |
| Native Hawaiian or Other Pacific Islander[b] | 14 | 22 | 16 | 10 | 9 | 8 | 16 | 13 |
| White | 4,821 | 4,798 | 4,830 | 4,748 | 4,564 | 4,383 | 4,491 | 4,731 |
| More than one race[b] | 12 | 10 | 12 | 8 | 8 | 20 | 32 | 83 |
| Unknown ethnicity/race | 324 | 311 | 358 | 384 | 360 | 398 | 471 | 433 |
| Temporary visa holders | 1,078 | 1,099 | 1,106 | 1,098 | 1,057 | 1,144 | 1,098 | 1,185 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 2,327 | 2,958 | 3,203 | 3,461 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 2,127 | 2,687 | 2,925 | 3,157 |
| Hispanic or Latino | ne | ne | ne | ne | 71 | 112 | 129 | 166 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 17 | 14 | 18 | 20 |
| Asian[b] | ne | ne | ne | ne | 79 | 124 | 120 | 123 |
| Black or African American | ne | ne | ne | ne | 272 | 345 | 461 | 511 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 0 | 0 | 0 | 1 |
| White | ne | ne | ne | ne | 1,573 | 1,866 | 2,024 | 2,099 |
| More than one race[b] | ne | ne | ne | ne | 2 | 5 | 3 | 29 |
| Unknown ethnicity/race | ne | ne | ne | ne | 113 | 221 | 170 | 208 |
| Temporary visa holders | ne | ne | ne | ne | 200 | 271 | 278 | 304 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mathematical sciences | 7,497 | 7,437 | 7,693 | 7,781 | 7,678 | 7,751 | 7,979 | 8,127 |
| U.S. citizens and permanent residents | 4,792 | 4,740 | 4,857 | 4,969 | 4,930 | 4,723 | 4,860 | 4,937 |
| Hispanic or Latino | 230 | 215 | 246 | 269 | 268 | 243 | 265 | 277 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 13 | 15 | 22 | 14 | 14 | 18 | 16 | 19 |
| Asian[b] | 571 | 597 | 611 | 613 | 605 | 571 | 613 | 617 |
| Black or African American | 332 | 351 | 347 | 331 | 329 | 311 | 321 | 319 |
| Native Hawaiian or Other Pacific Islander[b] | 13 | 14 | 18 | 18 | 18 | 28 | 32 | 16 |
| White | 3,293 | 3,178 | 3,260 | 3,276 | 3,252 | 3,129 | 3,149 | 3,125 |
| More than one race[b] | 7 | 9 | 6 | 4 | 4 | 8 | 57 | 97 |
| Unknown ethnicity/race | 333 | 361 | 347 | 444 | 440 | 415 | 407 | 467 |
| Temporary visa holders | 2,705 | 2,697 | 2,836 | 2,812 | 2,748 | 3,028 | 3,119 | 3,190 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,560 | 3,234 | 3,809 | 4,493 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 2,211 | 2,781 | 3,283 | 3,877 |
| Hispanic or Latino | ne | ne | ne | ne | 169 | 230 | 253 | 390 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 39 | 41 | 38 | 29 |
| Asian[b] | ne | ne | ne | ne | 115 | 144 | 169 | 200 |
| Black or African American | ne | ne | ne | ne | 219 | 264 | 326 | 381 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 8 | 8 | 10 | 8 |
| White | ne | ne | ne | ne | 1,378 | 1,711 | 1,954 | 2,329 |
| More than one race[b] | ne | ne | ne | ne | 0 | 3 | 25 | 51 |
| Unknown ethnicity/race | ne | ne | ne | ne | 283 | 380 | 508 | 489 |
| Temporary visa holders | ne | ne | ne | ne | 349 | 453 | 526 | 616 |
| Neuroscience[a] | na | na | na | na | 863 | 1,097 | 1,264 | 1,474 |
| U.S. citizens and permanent residents | na | na | na | na | 687 | 897 | 1,038 | 1,225 |
| Hispanic or Latino | na | na | na | na | 49 | 62 | 64 | 97 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 4 | 4 | 3 | 4 |
| Asian[b] | na | na | na | na | 78 | 106 | 112 | 128 |
| Black or African American | na | na | na | na | 35 | 36 | 52 | 51 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 2 | 3 | 1 | 2 |
| White | na | na | na | na | 482 | 625 | 714 | 857 |
| More than one race[b] | na | na | na | na | 0 | 2 | 1 | 7 |
| Unknown ethnicity/race | na | na | na | na | 37 | 59 | 91 | 79 |
| Temporary visa holders | na | na | na | na | 176 | 200 | 226 | 249 |
| Physical sciences | 11,300 | 11,726 | 12,005 | 12,253 | 12,109 | 12,333 | 12,691 | 12,826 |
| U.S. citizens and permanent residents | 6,757 | 7,098 | 7,370 | 7,605 | 7,489 | 7,448 | 7,671 | 7,721 |
| Hispanic or Latino | 489 | 490 | 490 | 509 | 503 | 494 | 495 | 506 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 28 | 34 | 49 | 49 | 48 | 50 | 48 | 37 |
| Asian[b] | 637 | 652 | 711 | 803 | 792 | 726 | 768 | 738 |
| Black or African American | 453 | 482 | 506 | 501 | 498 | 491 | 493 | 514 |
| Native Hawaiian or Other Pacific Islander[b] | 22 | 18 | 20 | 21 | 21 | 18 | 23 | 16 |
| White | 4,718 | 5,002 | 5,092 | 5,175 | 5,085 | 5,102 | 5,252 | 5,267 |
| More than one race[b] | 10 | 16 | 10 | 13 | 13 | 25 | 32 | 98 |
| Unknown ethnicity/race | 400 | 404 | 492 | 534 | 529 | 542 | 560 | 545 |
| Temporary visa holders | 4,543 | 4,628 | 4,635 | 4,648 | 4,620 | 4,885 | 5,020 | 5,105 |
| Psychology[c] | 40,156 | 43,319 | 43,703 | 45,594 | 45,116 | 44,615 | 42,536 | 40,238 |
| U.S. citizens and permanent residents | 38,210 | 41,172 | 41,648 | 43,328 | 42,890 | 42,389 | 40,409 | 37,958 |
| Hispanic or Latino | 3,659 | 3,927 | 4,030 | 4,216 | 4,204 | 4,271 | 3,852 | 3,720 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 235 | 241 | 261 | 309 | 309 | 298 | 287 | 266 |
| Asian[b] | 1,818 | 1,888 | 1,949 | 2,147 | 2,128 | 2,100 | 2,000 | 1,868 |
| Black or African American | 3,752 | 4,291 | 4,164 | 4,198 | 4,165 | 4,341 | 4,440 | 4,478 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 62 | 102 | 88 | 95 | 98 | 79 | 66 | 92 |
| White | 25,020 | 25,614 | 26,132 | 27,588 | 27,237 | 26,497 | 25,646 | 23,716 |
| More than one race[b] | 52 | 56 | 52 | 55 | 55 | 137 | 303 | 506 |
| Unknown ethnicity/race | 3,612 | 5,053 | 4,972 | 4,720 | 4,694 | 4,666 | 3,815 | 3,312 |
| Temporary visa holders | 1,946 | 2,147 | 2,055 | 2,266 | 2,226 | 2,226 | 2,127 | 2,280 |
| Social sciences | 51,884 | 53,268 | 55,027 | 56,441 | 55,453 | 55,700 | 57,749 | 58,659 |
| U.S. citizens and permanent residents | 43,597 | 45,036 | 46,379 | 47,618 | 46,793 | 46,612 | 48,364 | 48,992 |
| Hispanic or Latino | 3,561 | 4,097 | 4,093 | 4,161 | 4,107 | 4,079 | 4,303 | 4,300 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 389 | 420 | 448 | 468 | 459 | 541 | 518 | 469 |
| Asian[b] | 2,345 | 2,553 | 2,598 | 2,725 | 2,666 | 2,660 | 2,840 | 2,813 |
| Black or African American | 6,058 | 6,225 | 6,447 | 6,727 | 6,616 | 6,740 | 6,995 | 7,334 |
| Native Hawaiian or Other Pacific Islander[b] | 181 | 160 | 131 | 229 | 228 | 184 | 163 | 185 |
| White | 27,140 | 27,128 | 27,777 | 28,032 | 27,541 | 27,187 | 28,082 | 28,326 |
| More than one race[b] | 111 | 100 | 128 | 134 | 133 | 307 | 424 | 833 |
| Unknown ethnicity/race | 3,812 | 4,353 | 4,757 | 5,142 | 5,043 | 4,914 | 5,039 | 4,732 |
| Temporary visa holders | 8,287 | 8,232 | 8,648 | 8,823 | 8,660 | 9,088 | 9,385 | 9,667 |
| Engineering | 27,272 | 26,895 | 27,944 | 29,974 | 30,472 | 31,537 | 33,318 | 34,453 |
| U.S. citizens and permanent residents | 15,245 | 15,280 | 15,466 | 16,350 | 16,700 | 16,996 | 17,894 | 18,464 |
| Hispanic or Latino | 1,099 | 1,097 | 1,195 | 1,242 | 1,256 | 1,250 | 1,351 | 1,461 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 75 | 67 | 72 | 62 | 65 | 97 | 78 | 85 |
| Asian[b] | 2,916 | 2,955 | 2,553 | 2,590 | 2,634 | 2,575 | 2,641 | 2,738 |
| Black or African American | 1,129 | 1,100 | 1,129 | 1,211 | 1,254 | 1,283 | 1,315 | 1,300 |
| Native Hawaiian or Other Pacific Islander[b] | 44 | 46 | 43 | 76 | 76 | 48 | 42 | 47 |
| White | 8,858 | 8,687 | 9,001 | 9,511 | 9,719 | 10,065 | 10,605 | 11,004 |
| More than one race[b] | 13 | 14 | 20 | 14 | 15 | 46 | 98 | 246 |
| Unknown ethnicity/race | 1,111 | 1,314 | 1,453 | 1,644 | 1,681 | 1,632 | 1,764 | 1,583 |
| Temporary visa holders | 12,027 | 11,615 | 12,478 | 13,624 | 13,772 | 14,541 | 15,424 | 15,989 |
| Aerospace engineering | 600 | 607 | 709 | 700 | 700 | 722 | 734 | 784 |
| U.S. citizens and permanent residents | 377 | 400 | 493 | 486 | 486 | 487 | 497 | 551 |
| Hispanic or Latino | 22 | 16 | 24 | 22 | 22 | 25 | 25 | 36 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 3 | 2 | 1 | 4 | 4 | 7 | 5 | 4 |
| Asian[b] | 50 | 62 | 61 | 62 | 62 | 66 | 57 | 56 |
| Black or African American | 14 | 15 | 18 | 21 | 21 | 24 | 20 | 17 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| White | 256 | 272 | 326 | 338 | 338 | 296 | 332 | 375 |
| More than one race[b] | 0 | 0 | 0 | 1 | 1 | 1 | 5 | 12 |
| Unknown ethnicity/race | 31 | 33 | 62 | 38 | 38 | 68 | 52 | 49 |
| Temporary visa holders | 223 | 207 | 216 | 214 | 214 | 235 | 237 | 233 |
| Agricultural engineering | 311 | 323 | 350 | 366 | 366 | 398 | 437 | 509 |
| U.S. citizens and permanent residents | 183 | 177 | 183 | 172 | 172 | 166 | 198 | 206 |
| Hispanic or Latino | 4 | 10 | 12 | 5 | 5 | 6 | 9 | 10 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 1 | 3 | 1 | 1 | 1 | 1 | 3 |
| Asian[b] | 16 | 13 | 10 | 12 | 12 | 10 | 11 | 16 |
| Black or African American | 14 | 12 | 13 | 10 | 10 | 9 | 12 | 16 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| White | 143 | 136 | 140 | 130 | 130 | 132 | 152 | 145 |
| More than one race[b] | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 4 |
| Unknown ethnicity/race | 6 | 4 | 3 | 10 | 10 | 8 | 12 | 12 |
| Temporary visa holders | 128 | 146 | 167 | 194 | 194 | 232 | 239 | 303 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Architecture[a] | na | na | na | na | 1,974 | 2,612 | 2,997 | 3,044 |
| U.S. citizens and permanent residents | na | na | na | na | 1,567 | 2,085 | 2,368 | 2,396 |
| Hispanic or Latino | na | na | na | na | 86 | 170 | 191 | 182 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 3 | 26 | 13 | 15 |
| Asian[b] | na | na | na | na | 118 | 157 | 176 | 206 |
| Black or African American | na | na | na | na | 94 | 126 | 123 | 121 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 2 | 4 | 1 | 3 |
| White | na | na | na | na | 1,117 | 1,403 | 1,625 | 1,641 |
| More than one race[b] | na | na | na | na | 1 | 7 | 11 | 43 |
| Unknown ethnicity/race | na | na | na | na | 146 | 192 | 228 | 185 |
| Temporary visa holders | na | na | na | na | 407 | 527 | 629 | 648 |
| Biomedical engineering | 2,183 | 2,297 | 2,486 | 2,610 | 2,621 | 2,761 | 2,979 | 3,133 |
| U.S. citizens and permanent residents | 1,435 | 1,556 | 1,702 | 1,775 | 1,784 | 1,805 | 1,983 | 2,102 |
| Hispanic or Latino | 64 | 75 | 97 | 86 | 86 | 91 | 110 | 120 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 5 | 6 | 5 | 5 | 5 | 7 | 7 | 7 |
| Asian[b] | 301 | 337 | 366 | 394 | 394 | 371 | 422 | 437 |
| Black or African American | 113 | 103 | 107 | 117 | 117 | 118 | 139 | 129 |
| Native Hawaiian or Other Pacific Islander[b] | 10 | 7 | 7 | 7 | 7 | 10 | 6 | 5 |
| White | 868 | 911 | 991 | 991 | 1,000 | 1,058 | 1,141 | 1,227 |
| More than one race[b] | 0 | 0 | 5 | 3 | 3 | 5 | 19 | 28 |
| Unknown ethnicity/race | 74 | 117 | 124 | 172 | 172 | 145 | 139 | 149 |
| Temporary visa holders | 748 | 741 | 784 | 835 | 837 | 956 | 996 | 1,031 |
| Chemical engineering | 2,106 | 2,079 | 2,159 | 2,235 | 2,266 | 2,409 | 2,616 | 2,722 |
| U.S. citizens and permanent residents | 1,122 | 1,109 | 1,117 | 1,105 | 1,129 | 1,143 | 1,206 | 1,230 |
| Hispanic or Latino | 117 | 110 | 123 | 107 | 106 | 90 | 86 | 104 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 13 | 7 | 5 | 2 | 2 | 3 | 2 | 2 |
| Asian[b] | 172 | 201 | 198 | 190 | 195 | 203 | 215 | 219 |
| Black or African American | 74 | 60 | 56 | 50 | 52 | 51 | 66 | 65 |
| Native Hawaiian or Other Pacific Islander[b] | 5 | 5 | 8 | 9 | 9 | 2 | 1 | 4 |
| White | 676 | 664 | 671 | 675 | 692 | 716 | 760 | 753 |
| More than one race[b] | 4 | 1 | 2 | 1 | 1 | 8 | 7 | 10 |
| Unknown ethnicity/race | 61 | 61 | 54 | 71 | 72 | 70 | 69 | 73 |
| Temporary visa holders | 984 | 970 | 1,042 | 1,130 | 1,137 | 1,266 | 1,410 | 1,492 |
| Civil engineering[a] | 5,441 | 5,405 | 5,423 | 6,348 | 4,736 | 4,765 | 5,301 | 5,571 |
| U.S. citizens and permanent residents | 3,562 | 3,598 | 3,659 | 4,402 | 3,117 | 3,069 | 3,423 | 3,554 |
| Hispanic or Latino | 282 | 293 | 331 | 404 | 327 | 263 | 302 | 370 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 16 | 14 | 19 | 16 | 15 | 16 | 18 | 22 |
| Asian[b] | 371 | 391 | 361 | 395 | 303 | 325 | 382 | 404 |
| Black or African American | 162 | 161 | 181 | 231 | 178 | 168 | 205 | 206 |
| Native Hawaiian or Other Pacific Islander[b] | 4 | 9 | 8 | 11 | 9 | 11 | 8 | 14 |
| White | 2,498 | 2,467 | 2,460 | 2,961 | 2,021 | 2,019 | 2,155 | 2,235 |
| More than one race[b] | 1 | 3 | 3 | 2 | 2 | 4 | 15 | 59 |
| Unknown ethnicity/race | 228 | 260 | 296 | 382 | 262 | 263 | 338 | 244 |
| Temporary visa holders | 1,879 | 1,807 | 1,764 | 1,946 | 1,619 | 1,696 | 1,878 | 2,017 |
| Electrical engineering | 7,201 | 6,788 | 7,026 | 7,367 | 7,439 | 7,340 | 7,174 | 7,193 |
| U.S. citizens and permanent residents | 2,588 | 2,546 | 2,315 | 2,182 | 2,241 | 2,119 | 2,014 | 2,007 |
| Hispanic or Latino | 184 | 208 | 179 | 161 | 164 | 159 | 153 | 151 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 11 | 7 | 4 | 2 | 3 | 4 | 6 | 4 |
| Asian[b] | 972 | 925 | 709 | 597 | 615 | 568 | 548 | 548 |
| Black or African American | 194 | 189 | 180 | 180 | 183 | 172 | 172 | 174 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 8 | 5 | 5 | 9 | 9 | 3 | 8 | 6 |
| White | 968 | 907 | 906 | 910 | 939 | 872 | 850 | 851 |
| More than one race[b] | 3 | 6 | 4 | 2 | 2 | 6 | 8 | 21 |
| Unknown ethnicity/race | 248 | 299 | 328 | 321 | 326 | 335 | 269 | 252 |
| Temporary visa holders | 4,613 | 4,242 | 4,711 | 5,185 | 5,198 | 5,221 | 5,160 | 5,186 |
| Engineering science | 465 | 419 | 451 | 412 | 409 | 471 | 478 | 438 |
| U.S. citizens and permanent residents | 254 | 235 | 250 | 211 | 208 | 244 | 237 | 209 |
| Hispanic or Latino | 6 | 7 | 3 | 5 | 6 | 12 | 16 | 12 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 5 | 4 | 3 | 3 | 3 | 3 | 1 | 0 |
| Asian[b] | 43 | 41 | 45 | 41 | 37 | 31 | 27 | 31 |
| Black or African American | 12 | 10 | 11 | 7 | 7 | 12 | 12 | 9 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 |
| White | 173 | 152 | 168 | 134 | 135 | 163 | 148 | 132 |
| More than one race[b] | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 |
| Unknown ethnicity/race | 15 | 20 | 19 | 19 | 18 | 21 | 33 | 23 |
| Temporary visa holders | 211 | 184 | 201 | 201 | 201 | 227 | 241 | 229 |
| Industrial engineering | 3,230 | 3,296 | 3,466 | 3,520 | 3,544 | 3,714 | 3,800 | 3,684 |
| U.S. citizens and permanent residents | 2,233 | 2,228 | 2,326 | 2,288 | 2,291 | 2,253 | 2,182 | 2,029 |
| Hispanic or Latino | 211 | 187 | 214 | 210 | 212 | 201 | 221 | 190 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 11 | 16 | 17 | 14 | 15 | 18 | 14 | 8 |
| Asian[b] | 272 | 289 | 292 | 305 | 311 | 287 | 254 | 253 |
| Black or African American | 273 | 282 | 296 | 290 | 291 | 304 | 283 | 231 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 2 | 3 | 2 | 2 | 2 | 5 | 3 |
| White | 1,261 | 1,218 | 1,248 | 1,180 | 1,171 | 1,183 | 1,087 | 1,033 |
| More than one race[b] | 3 | 1 | 0 | 1 | 1 | 8 | 11 | 16 |
| Unknown ethnicity/race | 201 | 233 | 256 | 286 | 288 | 250 | 307 | 295 |
| Temporary visa holders | 997 | 1,068 | 1,140 | 1,232 | 1,253 | 1,461 | 1,618 | 1,655 |
| Mechanical engineering | 2,456 | 2,408 | 2,485 | 2,615 | 2,614 | 2,749 | 2,990 | 3,186 |
| U.S. citizens and permanent residents | 1,435 | 1,406 | 1,498 | 1,597 | 1,596 | 1,647 | 1,709 | 1,833 |
| Hispanic or Latino | 114 | 108 | 117 | 129 | 129 | 118 | 121 | 132 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 6 | 7 | 4 | 6 | 6 | 6 | 5 | 7 |
| Asian[b] | 188 | 202 | 191 | 256 | 256 | 257 | 237 | 251 |
| Black or African American | 91 | 90 | 75 | 93 | 93 | 99 | 94 | 109 |
| Native Hawaiian or Other Pacific Islander[b] | 7 | 8 | 5 | 6 | 6 | 4 | 7 | 5 |
| White | 924 | 862 | 970 | 967 | 966 | 1,010 | 1,086 | 1,160 |
| More than one race[b] | 1 | 0 | 1 | 0 | 0 | 0 | 11 | 25 |
| Unknown ethnicity/race | 104 | 129 | 135 | 140 | 140 | 153 | 148 | 144 |
| Temporary visa holders | 1,021 | 1,002 | 987 | 1,018 | 1,018 | 1,102 | 1,281 | 1,353 |
| Metallurgical/materials engineering | 1,321 | 1,348 | 1,390 | 1,460 | 1,473 | 1,533 | 1,589 | 1,754 |
| U.S. citizens and permanent residents | 690 | 688 | 731 | 766 | 769 | 775 | 783 | 880 |
| Hispanic or Latino | 31 | 32 | 34 | 38 | 40 | 44 | 42 | 55 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 4 | 3 | 3 | 3 | 3 | 5 |
| Asian[b] | 90 | 91 | 97 | 120 | 119 | 137 | 136 | 143 |
| Black or African American | 48 | 49 | 61 | 59 | 58 | 59 | 48 | 57 |
| Native Hawaiian or Other Pacific Islander[b] | 6 | 5 | 2 | 6 | 6 | 5 | 0 | 0 |
| White | 489 | 482 | 483 | 493 | 495 | 497 | 500 | 570 |
| More than one race[b] | 1 | 1 | 1 | 1 | 1 | 4 | 8 | 11 |
| Unknown ethnicity/race | 25 | 28 | 49 | 46 | 47 | 26 | 46 | 39 |
| Temporary visa holders | 631 | 660 | 659 | 694 | 704 | 758 | 806 | 874 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 42 | 39 | 43 | 51 | 37 | 49 | 55 | 77 |
| U.S. citizens and permanent residents | 33 | 30 | 27 | 29 | 22 | 24 | 31 | 39 |
| Hispanic or Latino | 5 | 4 | 0 | 1 | 0 | 0 | 2 | 2 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian[b] | 1 | 2 | 0 | 0 | 0 | 3 | 2 | 0 |
| Black or African American | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 4 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White | 25 | 22 | 26 | 26 | 22 | 19 | 23 | 30 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Unknown ethnicity/race | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 2 |
| Temporary visa holders | 9 | 9 | 16 | 22 | 15 | 25 | 24 | 38 |
| Nuclear engineering | 196 | 211 | 214 | 226 | 221 | 214 | 198 | 228 |
| U.S. citizens and permanent residents | 123 | 143 | 146 | 157 | 153 | 165 | 148 | 181 |
| Hispanic or Latino | 7 | 10 | 7 | 9 | 9 | 10 | 5 | 13 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian[b] | 14 | 15 | 12 | 7 | 7 | 11 | 14 | 16 |
| Black or African American | 12 | 13 | 8 | 11 | 11 | 12 | 10 | 9 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 |
| White | 84 | 96 | 110 | 113 | 109 | 120 | 108 | 126 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Unknown ethnicity/race | 6 | 8 | 9 | 17 | 17 | 10 | 11 | 13 |
| Temporary visa holders | 73 | 68 | 68 | 69 | 68 | 49 | 50 | 47 |
| Petroleum engineering | 134 | 121 | 135 | 183 | 183 | 191 | 209 | 235 |
| U.S. citizens and permanent residents | 33 | 28 | 34 | 37 | 37 | 40 | 45 | 50 |
| Hispanic or Latino | 6 | 6 | 7 | 8 | 8 | 4 | 5 | 7 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian[b] | 7 | 2 | 2 | 2 | 2 | 4 | 3 | 4 |
| Black or African American | 4 | 4 | 3 | 7 | 7 | 6 | 6 | 6 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White | 14 | 14 | 19 | 18 | 18 | 25 | 30 | 31 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Unknown ethnicity/race | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 1 |
| Temporary visa holders | 101 | 93 | 101 | 146 | 146 | 151 | 164 | 185 |
| Engineering, nec | 1,586 | 1,554 | 1,607 | 1,881 | 1,889 | 1,609 | 1,761 | 1,895 |
| U.S. citizens and permanent residents | 1,177 | 1,136 | 985 | 1,143 | 1,128 | 974 | 1,070 | 1,197 |
| Hispanic or Latino | 46 | 31 | 47 | 57 | 56 | 57 | 63 | 77 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 5 | 3 | 7 | 6 | 5 | 3 | 3 | 8 |
| Asian[b] | 419 | 384 | 209 | 209 | 203 | 145 | 157 | 154 |
| Black or African American | 118 | 112 | 120 | 134 | 132 | 121 | 122 | 147 |
| Native Hawaiian or Other Pacific Islander[b] | 2 | 3 | 3 | 22 | 22 | 4 | 5 | 4 |
| White | 479 | 484 | 483 | 575 | 566 | 552 | 608 | 695 |
| More than one race[b] | 0 | 1 | 2 | 1 | 1 | 2 | 2 | 10 |
| Unknown ethnicity/race | 108 | 118 | 114 | 139 | 143 | 90 | 110 | 102 |
| Temporary visa holders | 409 | 418 | 622 | 738 | 761 | 635 | 691 | 698 |
| Health[a,c] | 75,884 | 80,627 | 86,719 | 81,376 | 80,217 | 79,182 | 65,371 | 56,690 |
| U.S. citizens and permanent residents | 71,829 | 76,416 | 82,221 | 76,882 | 75,860 | 74,537 | 60,687 | 52,240 |
| Hispanic or Latino | 4,446 | 4,567 | 4,990 | 4,745 | 4,679 | 4,354 | 3,905 | 3,551 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 395 | 438 | 460 | 484 | 478 | 515 | 379 | 296 |
| Asian[b] | 4,673 | 5,002 | 5,374 | 4,877 | 4,767 | 4,582 | 4,014 | 3,628 |
| Black or African American | 6,492 | 6,806 | 7,532 | 6,903 | 6,851 | 6,889 | 6,020 | 5,684 |

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 492 | 225 | 220 | 234 | 219 | 226 | 174 | 200 |
| White | 50,681 | 53,462 | 57,544 | 53,329 | 52,752 | 51,476 | 41,266 | 34,580 |
| More than one race[b] | 59 | 71 | 80 | 97 | 94 | 191 | 268 | 619 |
| Unknown ethnicity/race | 4,591 | 5,845 | 6,021 | 6,213 | 6,020 | 6,304 | 4,661 | 3,682 |
| Temporary visa holders | 4,055 | 4,211 | 4,498 | 4,494 | 4,357 | 4,645 | 4,684 | 4,450 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 402,573 | 406,620 | 419,015 | 430,860 | 437,365 | 449,613 | 456,115 | 461,185 |
| U.S. citizens and permanent residents | 273,236 | 279,275 | 287,684 | 294,556 | 299,716 | 304,912 | 307,192 | 309,475 |
| Hispanic or Latino | 18,009 | 18,707 | 19,441 | 19,991 | 20,264 | 20,310 | 21,195 | 22,068 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,560 | 1,600 | 1,778 | 1,834 | 1,874 | 2,140 | 2,028 | 1,933 |
| Asian[b] | 23,520 | 23,679 | 24,426 | 25,192 | 25,395 | 24,570 | 25,492 | 25,954 |
| Black or African American | 18,500 | 18,740 | 19,936 | 19,625 | 20,078 | 21,903 | 22,362 | 22,611 |
| Native Hawaiian or Other Pacific Islander[b] | 921 | 891 | 815 | 988 | 996 | 955 | 896 | 859 |
| White | 190,541 | 192,546 | 197,195 | 200,044 | 203,760 | 206,023 | 206,533 | 207,055 |
| More than one race[b] | 422 | 495 | 507 | 467 | 470 | 975 | 1,799 | 4,239 |
| Unknown ethnicity/race | 19,763 | 22,617 | 23,586 | 26,415 | 26,879 | 28,036 | 26,887 | 24,756 |
| Temporary visa holders | 129,337 | 127,345 | 131,331 | 136,304 | 137,649 | 144,701 | 148,923 | 151,710 |
| Science and engineering | 340,529 | 341,742 | 349,802 | 362,976 | 371,542 | 383,560 | 398,498 | 409,107 |
| U.S. citizens and permanent residents | 217,345 | 220,842 | 225,338 | 233,343 | 240,319 | 245,691 | 256,503 | 263,871 |
| Hispanic or Latino | 14,231 | 14,916 | 15,381 | 15,994 | 16,378 | 16,622 | 17,755 | 18,870 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,252 | 1,293 | 1,443 | 1,445 | 1,492 | 1,733 | 1,716 | 1,690 |
| Asian[b] | 19,072 | 18,952 | 19,360 | 20,481 | 20,851 | 20,383 | 21,714 | 22,436 |
| Black or African American | 14,022 | 14,186 | 14,858 | 15,003 | 15,528 | 16,839 | 17,779 | 18,194 |
| Native Hawaiian or Other Pacific Islander[b] | 717 | 734 | 639 | 772 | 813 | 764 | 765 | 696 |
| White | 151,506 | 152,110 | 153,827 | 157,463 | 162,261 | 165,333 | 172,067 | 176,626 |
| More than one race[b] | 374 | 412 | 417 | 398 | 403 | 816 | 1,557 | 3,639 |
| Unknown ethnicity/race | 16,171 | 18,239 | 19,413 | 21,787 | 22,593 | 23,201 | 23,150 | 21,720 |
| Temporary visa holders | 123,184 | 120,900 | 124,464 | 129,633 | 131,223 | 137,869 | 141,995 | 145,236 |
| Science | 253,574 | 257,283 | 261,984 | 269,821 | 277,229 | 285,305 | 293,561 | 299,315 |
| U.S. citizens and permanent residents | 178,463 | 181,990 | 185,004 | 191,167 | 197,473 | 201,142 | 207,858 | 211,598 |
| Hispanic or Latino | 11,825 | 12,512 | 12,855 | 13,352 | 13,705 | 13,930 | 14,653 | 15,344 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,097 | 1,134 | 1,257 | 1,267 | 1,310 | 1,520 | 1,507 | 1,483 |
| Asian[b] | 13,636 | 13,663 | 14,023 | 14,780 | 15,092 | 14,561 | 15,565 | 15,681 |
| Black or African American | 12,062 | 12,217 | 12,718 | 12,834 | 13,308 | 14,556 | 15,407 | 15,725 |
| Native Hawaiian or Other Pacific Islander[b] | 633 | 653 | 567 | 649 | 687 | 665 | 675 | 594 |
| White | 125,402 | 126,329 | 127,836 | 130,378 | 134,711 | 136,236 | 140,148 | 142,596 |
| More than one race[b] | 350 | 367 | 374 | 360 | 364 | 730 | 1,294 | 2,866 |
| Unknown ethnicity/race | 13,458 | 15,115 | 15,374 | 17,547 | 18,296 | 18,944 | 18,609 | 17,309 |
| Temporary visa holders | 75,111 | 75,293 | 76,980 | 78,654 | 79,756 | 84,163 | 85,703 | 87,717 |
| Agricultural sciences | 10,040 | 9,710 | 9,478 | 9,634 | 9,822 | 10,132 | 10,823 | 11,087 |
| U.S. citizens and permanent residents | 7,613 | 7,304 | 7,097 | 7,188 | 7,230 | 7,413 | 8,032 | 8,260 |
| Hispanic or Latino | 408 | 374 | 397 | 426 | 443 | 435 | 535 | 522 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 59 | 50 | 59 | 60 | 61 | 82 | 84 | 90 |
| Asian[b] | 231 | 198 | 217 | 231 | 225 | 231 | 260 | 248 |
| Black or African American | 298 | 310 | 307 | 283 | 285 | 311 | 274 | 332 |
| Native Hawaiian or Other Pacific Islander[b] | 22 | 22 | 12 | 13 | 11 | 17 | 23 | 20 |
| White | 6,261 | 5,995 | 5,717 | 5,726 | 5,775 | 5,798 | 6,282 | 6,510 |
| More than one race[b] | 6 | 14 | 19 | 13 | 13 | 49 | 59 | 73 |
| Unknown ethnicity/race | 328 | 341 | 369 | 436 | 417 | 490 | 515 | 465 |
| Temporary visa holders | 2,427 | 2,406 | 2,381 | 2,446 | 2,592 | 2,719 | 2,791 | 2,827 |
| Biological sciences | 55,848 | 57,697 | 58,918 | 60,093 | 60,428 | 60,662 | 61,466 | 62,770 |
| U.S. citizens and permanent residents | 41,202 | 42,385 | 43,257 | 44,525 | 45,085 | 44,606 | 45,548 | 46,587 |
| Hispanic or Latino | 2,485 | 2,617 | 2,725 | 2,879 | 2,890 | 2,921 | 3,116 | 3,292 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 204 | 223 | 266 | 248 | 250 | 271 | 275 | 312 |
| Asian[b] | 4,270 | 4,383 | 4,631 | 4,867 | 4,921 | 4,581 | 4,955 | 5,136 |
| Black or African American | 2,241 | 2,318 | 2,418 | 2,486 | 2,509 | 2,645 | 2,831 | 2,858 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 267 | 226 | 218 | 219 | 246 | 243 | 226 | 194 |
| White | 29,270 | 29,917 | 30,331 | 30,750 | 30,900 | 30,493 | 30,541 | 31,225 |
| More than one race[b] | 86 | 104 | 84 | 73 | 75 | 152 | 219 | 542 |
| Unknown ethnicity/race | 2,379 | 2,597 | 2,584 | 3,003 | 3,294 | 3,300 | 3,385 | 3,028 |
| Temporary visa holders | 14,646 | 15,312 | 15,661 | 15,568 | 15,343 | 16,056 | 15,918 | 16,183 |
| Communication[a] | ne | ne | ne | ne | 4,528 | 5,224 | 6,091 | 6,274 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 3,549 | 4,058 | 4,757 | 5,001 |
| Hispanic or Latino | ne | ne | ne | ne | 196 | 253 | 264 | 326 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 21 | 31 | 35 | 42 |
| Asian[b] | ne | ne | ne | ne | 149 | 185 | 210 | 207 |
| Black or African American | ne | ne | ne | ne | 279 | 335 | 366 | 401 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 3 | 11 | 22 | 10 |
| White | ne | ne | ne | ne | 2,608 | 2,909 | 3,390 | 3,601 |
| More than one race[b] | ne | ne | ne | ne | 0 | 7 | 63 | 90 |
| Unknown ethnicity/race | ne | ne | ne | ne | 293 | 327 | 407 | 324 |
| Temporary visa holders | ne | ne | ne | ne | 979 | 1,166 | 1,334 | 1,273 |
| Computer sciences | 29,162 | 28,317 | 28,760 | 30,511 | 30,082 | 31,338 | 32,198 | 32,782 |
| U.S. citizens and permanent residents | 12,719 | 12,226 | 11,959 | 12,037 | 11,814 | 11,684 | 12,113 | 12,072 |
| Hispanic or Latino | 508 | 494 | 529 | 483 | 480 | 498 | 580 | 564 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 49 | 41 | 48 | 43 | 41 | 65 | 61 | 61 |
| Asian[b] | 2,159 | 1,942 | 1,800 | 1,734 | 1,695 | 1,622 | 1,814 | 1,649 |
| Black or African American | 788 | 764 | 738 | 825 | 813 | 803 | 914 | 963 |
| Native Hawaiian or Other Pacific Islander[b] | 23 | 30 | 28 | 18 | 18 | 18 | 28 | 26 |
| White | 7,962 | 7,725 | 7,390 | 7,064 | 6,926 | 7,051 | 7,291 | 7,353 |
| More than one race[b] | 17 | 15 | 13 | 10 | 10 | 21 | 77 | 144 |
| Unknown ethnicity/race | 1,213 | 1,215 | 1,413 | 1,860 | 1,831 | 1,606 | 1,348 | 1,312 |
| Temporary visa holders | 16,443 | 16,091 | 16,801 | 18,474 | 18,268 | 19,654 | 20,085 | 20,710 |
| Earth, atmospheric, and ocean sciences | 11,685 | 11,370 | 11,431 | 11,376 | 10,892 | 11,171 | 11,589 | 12,318 |
| U.S. citizens and permanent residents | 9,122 | 8,871 | 8,924 | 8,926 | 8,547 | 8,668 | 9,060 | 9,670 |
| Hispanic or Latino | 418 | 409 | 425 | 416 | 395 | 418 | 473 | 522 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 51 | 47 | 52 | 61 | 53 | 59 | 61 | 72 |
| Asian[b] | 332 | 287 | 294 | 323 | 303 | 295 | 309 | 315 |
| Black or African American | 194 | 170 | 186 | 196 | 191 | 207 | 223 | 228 |
| Native Hawaiian or Other Pacific Islander[b] | 16 | 25 | 17 | 11 | 9 | 12 | 18 | 11 |
| White | 7,582 | 7,400 | 7,356 | 7,312 | 7,026 | 6,989 | 7,243 | 7,735 |
| More than one race[b] | 23 | 13 | 12 | 11 | 11 | 25 | 43 | 119 |
| Unknown ethnicity/race | 506 | 520 | 582 | 596 | 559 | 663 | 690 | 668 |
| Temporary visa holders | 2,563 | 2,499 | 2,507 | 2,450 | 2,345 | 2,503 | 2,529 | 2,648 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 1,594 | 1,936 | 2,168 | 2,377 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 1,396 | 1,659 | 1,891 | 2,054 |
| Hispanic or Latino | ne | ne | ne | ne | 50 | 66 | 83 | 114 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 14 | 13 | 11 | 14 |
| Asian[b] | ne | ne | ne | ne | 61 | 83 | 81 | 95 |
| Black or African American | ne | ne | ne | ne | 142 | 155 | 229 | 218 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 0 | 0 | 1 | 1 |
| White | ne | ne | ne | ne | 1,046 | 1,198 | 1,377 | 1,443 |
| More than one race[b] | ne | ne | ne | ne | 2 | 3 | 3 | 20 |
| Unknown ethnicity/race | ne | ne | ne | ne | 81 | 141 | 106 | 149 |
| Temporary visa holders | ne | ne | ne | ne | 198 | 277 | 277 | 323 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mathematical sciences | 14,916 | 15,261 | 15,571 | 15,966 | 15,668 | 16,241 | 16,885 | 17,606 |
| U.S. citizens and permanent residents | 8,225 | 8,534 | 8,749 | 9,063 | 8,943 | 8,942 | 9,283 | 9,766 |
| Hispanic or Latino | 365 | 380 | 419 | 459 | 455 | 429 | 484 | 532 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 19 | 25 | 40 | 31 | 29 | 37 | 32 | 38 |
| Asian[b] | 825 | 846 | 865 | 855 | 829 | 820 | 882 | 941 |
| Black or African American | 392 | 414 | 420 | 423 | 422 | 402 | 433 | 425 |
| Native Hawaiian or Other Pacific Islander[b] | 24 | 25 | 22 | 25 | 25 | 29 | 40 | 18 |
| White | 6,016 | 6,155 | 6,259 | 6,423 | 6,352 | 6,465 | 6,636 | 6,882 |
| More than one race[b] | 21 | 13 | 10 | 10 | 10 | 19 | 62 | 134 |
| Unknown ethnicity/race | 563 | 676 | 714 | 837 | 821 | 741 | 714 | 796 |
| Temporary visa holders | 6,691 | 6,727 | 6,822 | 6,903 | 6,725 | 7,299 | 7,602 | 7,840 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,398 | 3,110 | 3,957 | 5,063 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 1,830 | 2,344 | 3,087 | 3,995 |
| Hispanic or Latino | ne | ne | ne | ne | 110 | 167 | 190 | 349 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | ne | ne | ne | ne | 23 | 34 | 33 | 34 |
| Asian[b] | ne | ne | ne | ne | 110 | 129 | 170 | 222 |
| Black or African American | ne | ne | ne | ne | 131 | 169 | 233 | 320 |
| Native Hawaiian or Other Pacific Islander[b] | ne | ne | ne | ne | 8 | 7 | 11 | 5 |
| White | ne | ne | ne | ne | 1,159 | 1,472 | 1,904 | 2,546 |
| More than one race[b] | ne | ne | ne | ne | 1 | 6 | 9 | 47 |
| Unknown ethnicity/race | ne | ne | ne | ne | 288 | 360 | 537 | 472 |
| Temporary visa holders | ne | ne | ne | ne | 568 | 766 | 870 | 1,068 |
| Neuroscience[a] | na | na | na | na | 1,530 | 1,909 | 2,261 | 2,682 |
| U.S. citizens and permanent residents | na | na | na | na | 1,203 | 1,544 | 1,864 | 2,222 |
| Hispanic or Latino | na | na | na | na | 75 | 96 | 116 | 162 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 7 | 11 | 12 | 10 |
| Asian[b] | na | na | na | na | 132 | 168 | 205 | 223 |
| Black or African American | na | na | na | na | 55 | 60 | 81 | 82 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 4 | 6 | 4 | 5 |
| White | na | na | na | na | 865 | 1,091 | 1,284 | 1,579 |
| More than one race[b] | na | na | na | na | 0 | 2 | 7 | 11 |
| Unknown ethnicity/race | na | na | na | na | 65 | 110 | 155 | 150 |
| Temporary visa holders | na | na | na | na | 327 | 365 | 397 | 460 |
| Physical sciences | 31,675 | 32,400 | 32,841 | 33,091 | 32,857 | 33,254 | 34,181 | 34,856 |
| U.S. citizens and permanent residents | 18,078 | 18,595 | 18,979 | 19,460 | 19,288 | 19,360 | 19,996 | 20,511 |
| Hispanic or Latino | 1,026 | 1,055 | 1,032 | 1,061 | 1,057 | 1,047 | 1,105 | 1,164 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 68 | 70 | 102 | 91 | 89 | 89 | 96 | 83 |
| Asian[b] | 1,336 | 1,321 | 1,405 | 1,576 | 1,564 | 1,454 | 1,512 | 1,515 |
| Black or African American | 802 | 784 | 785 | 772 | 770 | 786 | 800 | 820 |
| Native Hawaiian or Other Pacific Islander[b] | 30 | 29 | 32 | 36 | 35 | 30 | 45 | 31 |
| White | 13,725 | 14,200 | 14,245 | 14,544 | 14,404 | 14,439 | 14,904 | 15,224 |
| More than one race[b] | 20 | 34 | 22 | 24 | 24 | 59 | 74 | 244 |
| Unknown ethnicity/race | 1,071 | 1,102 | 1,356 | 1,356 | 1,345 | 1,456 | 1,460 | 1,430 |
| Temporary visa holders | 13,597 | 13,805 | 13,862 | 13,631 | 13,569 | 13,894 | 14,185 | 14,345 |
| Psychology[c] | 37,872 | 38,919 | 38,994 | 41,166 | 40,678 | 42,103 | 40,373 | 38,571 |
| U.S. citizens and permanent residents | 35,211 | 36,435 | 36,630 | 38,550 | 38,134 | 39,542 | 37,881 | 36,058 |
| Hispanic or Latino | 3,353 | 3,494 | 3,527 | 3,670 | 3,652 | 3,807 | 3,451 | 3,392 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 248 | 240 | 243 | 246 | 246 | 280 | 256 | 250 |
| Asian[b] | 1,693 | 1,685 | 1,824 | 2,009 | 1,983 | 2,028 | 1,919 | 1,830 |
| Black or African American | 2,761 | 2,856 | 2,986 | 2,910 | 2,877 | 3,423 | 3,453 | 3,414 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 60 | 99 | 75 | 104 | 106 | 83 | 77 | 83 |
| White | 23,707 | 23,909 | 24,420 | 25,701 | 25,396 | 25,579 | 24,906 | 23,402 |
| More than one race[b] | 55 | 58 | 66 | 66 | 66 | 109 | 244 | 471 |
| Unknown ethnicity/race | 3,334 | 4,094 | 3,489 | 3,844 | 3,808 | 4,233 | 3,575 | 3,216 |
| Temporary visa holders | 2,661 | 2,484 | 2,364 | 2,616 | 2,544 | 2,561 | 2,492 | 2,513 |
| Social sciences | 62,376 | 63,609 | 65,991 | 67,984 | 66,752 | 68,225 | 71,569 | 72,929 |
| U.S. citizens and permanent residents | 46,293 | 47,640 | 49,409 | 51,418 | 50,454 | 51,322 | 54,346 | 55,402 |
| Hispanic or Latino | 3,262 | 3,689 | 3,801 | 3,958 | 3,902 | 3,793 | 4,256 | 4,405 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 399 | 438 | 447 | 487 | 476 | 548 | 551 | 477 |
| Asian[b] | 2,790 | 3,001 | 2,987 | 3,185 | 3,120 | 2,965 | 3,248 | 3,300 |
| Black or African American | 4,586 | 4,601 | 4,878 | 4,939 | 4,834 | 5,260 | 5,570 | 5,664 |
| Native Hawaiian or Other Pacific Islander[b] | 191 | 197 | 163 | 223 | 222 | 209 | 180 | 190 |
| White | 30,879 | 31,028 | 32,118 | 32,858 | 32,254 | 32,752 | 34,390 | 35,096 |
| More than one race[b] | 122 | 116 | 148 | 153 | 152 | 278 | 434 | 971 |
| Unknown ethnicity/race | 4,064 | 4,570 | 4,867 | 5,615 | 5,494 | 5,517 | 5,717 | 5,299 |
| Temporary visa holders | 16,083 | 15,969 | 16,582 | 16,566 | 16,298 | 16,903 | 17,223 | 17,527 |
| Engineering | 86,955 | 84,459 | 87,818 | 93,155 | 94,313 | 98,255 | 104,937 | 109,792 |
| U.S. citizens and permanent residents | 38,882 | 38,852 | 40,334 | 42,176 | 42,846 | 44,549 | 48,645 | 52,273 |
| Hispanic or Latino | 2,406 | 2,404 | 2,526 | 2,642 | 2,673 | 2,692 | 3,102 | 3,526 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 155 | 159 | 186 | 178 | 182 | 213 | 209 | 207 |
| Asian[b] | 5,436 | 5,289 | 5,337 | 5,701 | 5,759 | 5,822 | 6,149 | 6,755 |
| Black or African American | 1,960 | 1,969 | 2,140 | 2,169 | 2,220 | 2,283 | 2,372 | 2,469 |
| Native Hawaiian or Other Pacific Islander[b] | 84 | 81 | 72 | 123 | 126 | 99 | 90 | 102 |
| White | 26,104 | 25,781 | 25,991 | 27,085 | 27,550 | 29,097 | 31,919 | 34,030 |
| More than one race[b] | 24 | 45 | 43 | 38 | 39 | 86 | 263 | 773 |
| Unknown ethnicity/race | 2,713 | 3,124 | 4,039 | 4,240 | 4,297 | 4,257 | 4,541 | 4,411 |
| Temporary visa holders | 48,073 | 45,607 | 47,484 | 50,979 | 51,467 | 53,706 | 56,292 | 57,519 |
| Aerospace engineering | 3,243 | 3,241 | 3,374 | 3,482 | 3,482 | 3,691 | 3,974 | 4,211 |
| U.S. citizens and permanent residents | 1,695 | 1,763 | 2,047 | 2,116 | 2,116 | 2,264 | 2,454 | 2,721 |
| Hispanic or Latino | 75 | 80 | 86 | 95 | 95 | 101 | 119 | 156 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 9 | 8 | 9 | 9 | 9 | 16 | 11 | 5 |
| Asian[b] | 148 | 172 | 203 | 216 | 216 | 233 | 241 | 301 |
| Black or African American | 42 | 47 | 49 | 57 | 57 | 83 | 70 | 55 |
| Native Hawaiian or Other Pacific Islander[b] | 2 | 1 | 1 | 0 | 0 | 3 | 7 | 2 |
| White | 1,300 | 1,313 | 1,322 | 1,486 | 1,486 | 1,560 | 1,697 | 1,877 |
| More than one race[b] | 1 | 1 | 0 | 1 | 1 | 1 | 18 | 40 |
| Unknown ethnicity/race | 118 | 141 | 377 | 252 | 252 | 267 | 291 | 285 |
| Temporary visa holders | 1,548 | 1,478 | 1,327 | 1,366 | 1,366 | 1,427 | 1,520 | 1,490 |
| Agricultural engineering | 842 | 855 | 893 | 917 | 917 | 1,022 | 1,084 | 1,198 |
| U.S. citizens and permanent residents | 430 | 392 | 388 | 401 | 401 | 425 | 483 | 491 |
| Hispanic or Latino | 6 | 11 | 13 | 9 | 9 | 17 | 22 | 22 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 3 |
| Asian[b] | 38 | 32 | 29 | 22 | 22 | 22 | 18 | 26 |
| Black or African American | 22 | 19 | 20 | 18 | 18 | 17 | 28 | 29 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 |
| White | 354 | 311 | 307 | 322 | 322 | 351 | 386 | 373 |
| More than one race[b] | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 5 |
| Unknown ethnicity/race | 9 | 17 | 14 | 25 | 25 | 18 | 27 | 33 |
| Temporary visa holders | 412 | 463 | 505 | 516 | 516 | 597 | 601 | 707 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Architecture[a] | na | na | na | na | 4,097 | 5,211 | 6,112 | 6,079 |
| U.S. citizens and permanent residents | na | na | na | na | 3,259 | 4,230 | 4,996 | 4,916 |
| Hispanic or Latino | na | na | na | na | 184 | 332 | 404 | 376 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | 15 | 32 | 32 | 35 |
| Asian[b] | na | na | na | na | 210 | 267 | 291 | 321 |
| Black or African American | na | na | na | na | 172 | 217 | 230 | 211 |
| Native Hawaiian or Other Pacific Islander[b] | na | na | na | na | 4 | 6 | 5 | 7 |
| White | na | na | na | na | 2,382 | 3,008 | 3,546 | 3,509 |
| More than one race[b] | na | na | na | na | 1 | 10 | 31 | 88 |
| Unknown ethnicity/race | na | na | na | na | 291 | 358 | 457 | 369 |
| Temporary visa holders | na | na | na | na | 838 | 981 | 1,116 | 1,163 |
| Biomedical engineering | 5,047 | 5,254 | 5,666 | 5,898 | 5,921 | 6,262 | 6,859 | 7,418 |
| U.S. citizens and permanent residents | 3,190 | 3,378 | 3,718 | 3,880 | 3,897 | 4,087 | 4,485 | 5,004 |
| Hispanic or Latino | 151 | 151 | 199 | 219 | 219 | 183 | 244 | 270 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 14 | 12 | 17 | 18 | 18 | 19 | 17 | 13 |
| Asian[b] | 646 | 669 | 751 | 823 | 824 | 806 | 956 | 1,052 |
| Black or African American | 166 | 169 | 184 | 178 | 178 | 182 | 202 | 197 |
| Native Hawaiian or Other Pacific Islander[b] | 13 | 10 | 13 | 12 | 12 | 20 | 14 | 13 |
| White | 1,999 | 2,099 | 2,270 | 2,249 | 2,265 | 2,504 | 2,700 | 3,046 |
| More than one race[b] | 0 | 5 | 9 | 8 | 8 | 11 | 38 | 73 |
| Unknown ethnicity/race | 201 | 263 | 275 | 373 | 373 | 362 | 314 | 340 |
| Temporary visa holders | 1,857 | 1,876 | 1,948 | 2,018 | 2,024 | 2,175 | 2,374 | 2,414 |
| Chemical engineering | 6,379 | 6,139 | 6,218 | 6,275 | 6,459 | 6,762 | 7,110 | 7,516 |
| U.S. citizens and permanent residents | 2,999 | 2,921 | 2,977 | 2,925 | 3,011 | 3,079 | 3,304 | 3,504 |
| Hispanic or Latino | 208 | 204 | 223 | 207 | 207 | 191 | 189 | 230 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 25 | 23 | 16 | 13 | 13 | 13 | 13 | 17 |
| Asian[b] | 346 | 365 | 400 | 364 | 374 | 399 | 440 | 494 |
| Black or African American | 137 | 116 | 120 | 119 | 124 | 119 | 128 | 126 |
| Native Hawaiian or Other Pacific Islander[b] | 2 | 10 | 7 | 15 | 15 | 2 | 2 | 11 |
| White | 2,158 | 2,056 | 2,064 | 2,051 | 2,122 | 2,170 | 2,315 | 2,346 |
| More than one race[b] | 4 | 12 | 3 | 1 | 1 | 9 | 11 | 34 |
| Unknown ethnicity/race | 119 | 135 | 144 | 155 | 155 | 176 | 206 | 246 |
| Temporary visa holders | 3,380 | 3,218 | 3,241 | 3,350 | 3,448 | 3,683 | 3,806 | 4,012 |
| Civil engineering[a] | 13,588 | 13,196 | 13,074 | 14,691 | 11,336 | 11,909 | 13,503 | 14,191 |
| U.S. citizens and permanent residents | 7,467 | 7,474 | 7,520 | 8,863 | 6,175 | 6,378 | 7,543 | 7,989 |
| Hispanic or Latino | 562 | 590 | 618 | 668 | 515 | 456 | 561 | 689 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 33 | 32 | 43 | 52 | 40 | 32 | 34 | 32 |
| Asian[b] | 633 | 603 | 570 | 689 | 519 | 545 | 694 | 783 |
| Black or African American | 262 | 273 | 308 | 409 | 286 | 266 | 313 | 341 |
| Native Hawaiian or Other Pacific Islander[b] | 7 | 14 | 10 | 16 | 15 | 10 | 14 | 22 |
| White | 5,524 | 5,441 | 5,337 | 6,275 | 4,288 | 4,524 | 5,083 | 5,317 |
| More than one race[b] | 1 | 4 | 4 | 5 | 5 | 12 | 37 | 232 |
| Unknown ethnicity/race | 445 | 517 | 630 | 749 | 507 | 533 | 807 | 573 |
| Temporary visa holders | 6,121 | 5,722 | 5,554 | 5,828 | 5,161 | 5,531 | 5,960 | 6,202 |
| Electrical engineering | 26,732 | 25,849 | 27,379 | 28,934 | 29,076 | 29,212 | 29,282 | 29,977 |
| U.S. citizens and permanent residents | 8,792 | 8,790 | 8,696 | 8,421 | 8,448 | 8,486 | 8,362 | 8,904 |
| Hispanic or Latino | 560 | 578 | 539 | 522 | 522 | 507 | 530 | 638 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 27 | 26 | 28 | 29 | 30 | 33 | 33 | 32 |
| Asian[b] | 1,979 | 1,969 | 1,823 | 1,623 | 1,625 | 1,666 | 1,656 | 1,677 |
| Black or African American | 477 | 462 | 497 | 467 | 470 | 468 | 481 | 532 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 24 | 14 | 8 | 40 | 40 | 25 | 14 | 15 |
| White | 5,050 | 4,967 | 4,785 | 4,777 | 4,798 | 4,674 | 4,737 | 5,016 |
| More than one race[b] | 11 | 15 | 15 | 11 | 11 | 13 | 38 | 102 |
| Unknown ethnicity/race | 664 | 759 | 1,001 | 952 | 952 | 1,100 | 873 | 892 |
| Temporary visa holders | 17,940 | 17,059 | 18,683 | 20,513 | 20,628 | 20,726 | 20,920 | 21,073 |
| Engineering science | 1,741 | 1,613 | 1,656 | 1,454 | 1,432 | 1,486 | 1,490 | 1,502 |
| U.S. citizens and permanent residents | 848 | 827 | 861 | 763 | 743 | 784 | 754 | 773 |
| Hispanic or Latino | 31 | 29 | 30 | 23 | 22 | 33 | 38 | 44 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 9 | 9 | 7 | 6 | 5 | 4 | 4 | 1 |
| Asian[b] | 123 | 119 | 123 | 128 | 117 | 109 | 95 | 108 |
| Black or African American | 26 | 22 | 34 | 23 | 23 | 24 | 24 | 26 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 0 | 1 | 2 | 2 | 3 | 0 | 0 |
| White | 616 | 594 | 600 | 524 | 522 | 532 | 502 | 502 |
| More than one race[b] | 1 | 3 | 3 | 1 | 1 | 1 | 4 | 13 |
| Unknown ethnicity/race | 41 | 51 | 63 | 56 | 51 | 78 | 87 | 79 |
| Temporary visa holders | 893 | 786 | 795 | 691 | 689 | 702 | 736 | 729 |
| Industrial engineering | 6,591 | 6,113 | 6,421 | 7,036 | 7,422 | 8,216 | 8,362 | 8,371 |
| U.S. citizens and permanent residents | 2,562 | 2,549 | 2,796 | 2,657 | 2,882 | 3,144 | 3,251 | 3,314 |
| Hispanic or Latino | 233 | 210 | 211 | 199 | 209 | 221 | 248 | 266 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 10 | 15 | 22 | 8 | 10 | 12 | 16 | 13 |
| Asian[b] | 298 | 284 | 327 | 354 | 403 | 363 | 341 | 381 |
| Black or African American | 253 | 255 | 276 | 270 | 271 | 348 | 322 | 270 |
| Native Hawaiian or Other Pacific Islander[b] | 5 | 3 | 7 | 3 | 4 | 1 | 9 | 4 |
| White | 1,515 | 1,500 | 1,511 | 1,400 | 1,487 | 1,779 | 1,836 | 1,819 |
| More than one race[b] | 1 | 1 | 0 | 0 | 0 | 7 | 27 | 27 |
| Unknown ethnicity/race | 247 | 281 | 442 | 423 | 498 | 413 | 452 | 534 |
| Temporary visa holders | 4,029 | 3,564 | 3,625 | 4,379 | 4,540 | 5,072 | 5,111 | 5,057 |
| Mechanical engineering | 12,718 | 12,178 | 12,666 | 13,170 | 13,160 | 13,763 | 15,609 | 16,625 |
| U.S. citizens and permanent residents | 5,810 | 5,712 | 6,026 | 6,411 | 6,404 | 6,567 | 7,462 | 8,273 |
| Hispanic or Latino | 347 | 331 | 371 | 417 | 417 | 402 | 447 | 502 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 18 | 20 | 23 | 25 | 25 | 24 | 28 | 32 |
| Asian[b] | 567 | 547 | 559 | 848 | 849 | 798 | 775 | 890 |
| Black or African American | 243 | 282 | 283 | 261 | 260 | 250 | 272 | 310 |
| Native Hawaiian or Other Pacific Islander[b] | 16 | 10 | 20 | 9 | 9 | 15 | 13 | 15 |
| White | 4,242 | 4,117 | 4,332 | 4,352 | 4,345 | 4,518 | 5,286 | 5,850 |
| More than one race[b] | 2 | 1 | 4 | 5 | 5 | 8 | 32 | 93 |
| Unknown ethnicity/race | 375 | 404 | 434 | 494 | 494 | 552 | 609 | 581 |
| Temporary visa holders | 6,908 | 6,466 | 6,640 | 6,759 | 6,756 | 7,196 | 8,147 | 8,352 |
| Metallurgical/materials engineering | 4,359 | 4,507 | 4,627 | 4,667 | 4,613 | 4,811 | 5,181 | 5,551 |
| U.S. citizens and permanent residents | 1,996 | 2,066 | 2,237 | 2,257 | 2,235 | 2,302 | 2,475 | 2,660 |
| Hispanic or Latino | 75 | 81 | 83 | 95 | 96 | 94 | 126 | 140 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 3 | 4 | 6 | 8 | 8 | 12 | 9 | 9 |
| Asian[b] | 278 | 267 | 289 | 282 | 279 | 300 | 309 | 353 |
| Black or African American | 78 | 80 | 114 | 114 | 110 | 98 | 85 | 102 |
| Native Hawaiian or Other Pacific Islander[b] | 7 | 7 | 1 | 9 | 9 | 5 | 1 | 2 |
| White | 1,466 | 1,534 | 1,592 | 1,583 | 1,558 | 1,635 | 1,780 | 1,873 |
| More than one race[b] | 2 | 1 | 3 | 2 | 2 | 7 | 14 | 30 |
| Unknown ethnicity/race | 87 | 92 | 149 | 164 | 173 | 151 | 151 | 151 |
| Temporary visa holders | 2,363 | 2,441 | 2,390 | 2,410 | 2,378 | 2,509 | 2,706 | 2,891 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 238 | 212 | 181 | 209 | 142 | 207 | 212 | 361 |
| U.S. citizens and permanent residents | 135 | 111 | 78 | 104 | 65 | 93 | 110 | 146 |
| Hispanic or Latino | 5 | 6 | 3 | 5 | 3 | 7 | 9 | 4 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 1 |
| Asian[b] | 5 | 3 | 0 | 6 | 5 | 7 | 8 | 4 |
| Black or African American | 4 | 3 | 2 | 5 | 0 | 3 | 7 | 11 |
| Native Hawaiian or Other Pacific Islander[b] | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White | 112 | 82 | 64 | 83 | 53 | 72 | 82 | 114 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Unknown ethnicity/race | 7 | 17 | 8 | 5 | 4 | 2 | 3 | 10 |
| Temporary visa holders | 103 | 101 | 103 | 105 | 77 | 114 | 102 | 215 |
| Nuclear engineering | 809 | 840 | 910 | 960 | 951 | 941 | 968 | 1,123 |
| U.S. citizens and permanent residents | 470 | 515 | 610 | 706 | 704 | 691 | 702 | 846 |
| Hispanic or Latino | 21 | 26 | 36 | 35 | 35 | 36 | 32 | 43 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 |
| Asian[b] | 33 | 35 | 31 | 42 | 42 | 41 | 45 | 59 |
| Black or African American | 15 | 17 | 15 | 15 | 15 | 19 | 16 | 13 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 2 | 0 | 0 | 0 | 5 | 1 | 2 |
| White | 375 | 407 | 478 | 516 | 514 | 536 | 541 | 638 |
| More than one race[b] | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 12 |
| Unknown ethnicity/race | 24 | 25 | 48 | 96 | 96 | 50 | 64 | 76 |
| Temporary visa holders | 339 | 325 | 300 | 254 | 247 | 250 | 266 | 277 |
| Petroleum engineering | 660 | 631 | 647 | 792 | 792 | 828 | 993 | 1,063 |
| U.S. citizens and permanent residents | 119 | 103 | 104 | 135 | 135 | 113 | 139 | 184 |
| Hispanic or Latino | 12 | 11 | 10 | 10 | 10 | 6 | 9 | 12 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian[b] | 19 | 10 | 10 | 11 | 11 | 8 | 14 | 29 |
| Black or African American | 14 | 19 | 14 | 29 | 29 | 19 | 12 | 19 |
| Native Hawaiian or Other Pacific Islander[b] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White | 66 | 59 | 57 | 72 | 72 | 72 | 100 | 113 |
| More than one race[b] | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Unknown ethnicity/race | 7 | 4 | 13 | 13 | 13 | 8 | 4 | 9 |
| Temporary visa holders | 541 | 528 | 543 | 657 | 657 | 715 | 854 | 879 |
| Engineering, nec | 4,008 | 3,831 | 4,106 | 4,670 | 4,513 | 3,934 | 4,198 | 4,606 |
| U.S. citizens and permanent residents | 2,369 | 2,251 | 2,276 | 2,537 | 2,371 | 1,906 | 2,125 | 2,548 |
| Hispanic or Latino | 120 | 96 | 104 | 138 | 130 | 106 | 124 | 134 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 4 | 6 | 9 | 7 | 6 | 11 | 8 | 11 |
| Asian[b] | 323 | 214 | 222 | 293 | 263 | 258 | 266 | 277 |
| Black or African American | 221 | 205 | 224 | 204 | 207 | 170 | 182 | 227 |
| Native Hawaiian or Other Pacific Islander[b] | 5 | 9 | 3 | 15 | 14 | 4 | 9 | 9 |
| White | 1,327 | 1,301 | 1,272 | 1,395 | 1,336 | 1,162 | 1,328 | 1,637 |
| More than one race[b] | 0 | 2 | 1 | 2 | 2 | 6 | 12 | 20 |
| Unknown ethnicity/race | 369 | 418 | 441 | 483 | 413 | 189 | 196 | 233 |
| Temporary visa holders | 1,639 | 1,580 | 1,830 | 2,133 | 2,142 | 2,028 | 2,073 | 2,058 |
| Health[a,c] | 62,044 | 64,878 | 69,213 | 67,884 | 65,823 | 66,053 | 57,617 | 52,078 |
| U.S. citizens and permanent residents | 55,891 | 58,433 | 62,346 | 61,213 | 59,397 | 59,221 | 50,689 | 45,604 |
| Hispanic or Latino | 3,778 | 3,791 | 4,060 | 3,997 | 3,886 | 3,688 | 3,440 | 3,198 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 308 | 307 | 335 | 389 | 382 | 407 | 312 | 243 |
| Asian[b] | 4,448 | 4,727 | 5,066 | 4,711 | 4,544 | 4,187 | 3,778 | 3,518 |
| Black or African American | 4,478 | 4,554 | 5,078 | 4,622 | 4,550 | 5,064 | 4,583 | 4,417 |

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[b] | 204 | 157 | 176 | 216 | 183 | 191 | 131 | 163 |
| White | 39,035 | 40,436 | 43,368 | 42,581 | 41,499 | 40,690 | 34,466 | 30,429 |
| More than one race[b] | 48 | 83 | 90 | 69 | 67 | 159 | 242 | 600 |
| Unknown ethnicity/race | 3,592 | 4,378 | 4,173 | 4,628 | 4,286 | 4,835 | 3,737 | 3,036 |
| Temporary visa holders | 6,153 | 6,445 | 6,867 | 6,671 | 6,426 | 6,832 | 6,928 | 6,474 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 518,641 | 527,048 | 542,073 | 551,832 | 561,352 | 574,241 | 573,883 | 575,785 |
| Science and engineering | 432,748 | 436,320 | 445,037 | 457,931 | 469,517 | 482,711 | 497,223 | 508,114 |
| Science | 316,260 | 321,920 | 328,413 | 334,662 | 345,094 | 351,988 | 360,501 | 366,312 |
| Agricultural sciences | 12,573 | 12,271 | 12,133 | 12,285 | 12,548 | 13,099 | 14,110 | 14,561 |
| Biological sciences | 62,834 | 64,540 | 65,861 | 67,267 | 67,507 | 68,199 | 68,580 | 69,522 |
| Anatomy | 897 | 938 | 961 | 979 | 867 | 764 | 833 | 849 |
| Biochemistry | 5,520 | 5,720 | 5,713 | 5,867 | 5,761 | 5,365 | 5,158 | 5,190 |
| Biology | 13,031 | 13,115 | 13,789 | 13,548 | 13,220 | 13,888 | 14,005 | 14,103 |
| Biometry/epidemiology | 4,674 | 4,805 | 4,789 | 5,483 | 5,694 | 5,956 | 5,682 | 6,346 |
| Biophysics | 1,180 | 1,183 | 1,203 | 1,214 | 1,193 | 1,084 | 1,042 | 1,072 |
| Botany | 1,830 | 1,859 | 1,848 | 1,888 | 1,818 | 1,801 | 1,830 | 1,863 |
| Cell biology | 5,697 | 6,030 | 6,388 | 6,547 | 6,690 | 6,948 | 6,970 | 6,835 |
| Ecology | 2,022 | 2,019 | 2,019 | 2,015 | 1,896 | 1,896 | 1,634 | 1,713 |
| Entomology/parasitology | 1,241 | 1,126 | 1,114 | 1,078 | 1,078 | 1,079 | 1,079 | 1,116 |
| Genetics | 2,077 | 2,095 | 2,096 | 2,096 | 2,064 | 2,072 | 2,242 | 2,333 |
| Microbiology/immunology/virology | 5,357 | 5,377 | 5,307 | 5,279 | 5,177 | 5,035 | 4,931 | 4,859 |
| Nutrition | 4,377 | 4,416 | 4,659 | 4,665 | 4,305 | 4,638 | 4,754 | 4,867 |
| Pathology | 1,557 | 1,593 | 1,612 | 1,633 | 1,580 | 1,618 | 1,450 | 1,314 |
| Pharmacology | 3,122 | 3,114 | 2,985 | 3,030 | 3,013 | 3,005 | 3,163 | 3,101 |
| Physiology | 2,240 | 2,221 | 2,238 | 2,242 | 2,574 | 2,687 | 2,776 | 2,847 |
| Zoology | 1,234 | 1,261 | 1,143 | 1,081 | 1,105 | 923 | 873 | 894 |
| Biological sciences, nec | 6,778 | 7,668 | 7,997 | 8,622 | 9,472 | 9,440 | 10,158 | 10,220 |
| Communication[a] | ne | ne | ne | ne | 6,026 | 7,030 | 7,951 | 8,219 |
| Computer sciences | 44,462 | 43,080 | 43,032 | 44,066 | 43,555 | 44,171 | 45,593 | 45,860 |
| Earth, atmospheric, and ocean sciences | 14,149 | 13,981 | 14,032 | 13,812 | 13,359 | 13,663 | 13,942 | 14,756 |
| Atmospheric sciences | 1,077 | 1,139 | 1,071 | 1,110 | 1,171 | 1,394 | 1,348 | 1,443 |
| Geosciences | 6,944 | 6,904 | 6,856 | 6,781 | 6,719 | 6,766 | 7,141 | 7,800 |
| Oceanography | 2,705 | 2,659 | 2,674 | 2,559 | 2,511 | 2,532 | 2,527 | 2,455 |
| Earth/atmospheric/ocean sciences, nec | 3,423 | 3,279 | 3,431 | 3,362 | 2,958 | 2,971 | 2,926 | 3,058 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 2,491 | 3,007 | 3,084 | 3,491 |
| Mathematical sciences | 18,254 | 18,570 | 19,037 | 19,540 | 19,180 | 19,722 | 20,527 | 21,330 |
| Mathematics/applied mathematics | 14,383 | 14,572 | 15,004 | 15,207 | 14,841 | 14,894 | 15,679 | 16,029 |
| Statistics | 3,871 | 3,998 | 4,033 | 4,333 | 4,339 | 4,828 | 4,848 | 5,301 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 3,693 | 4,686 | 5,511 | 6,742 |
| Neuroscience[a] | na | na | na | na | 1,561 | 1,980 | 2,316 | 2,798 |
| Physical sciences | 34,866 | 35,435 | 35,928 | 36,036 | 35,768 | 36,320 | 37,098 | 37,871 |
| Astronomy | 1,119 | 1,191 | 1,211 | 1,233 | 1,232 | 1,275 | 1,409 | 1,331 |
| Chemistry | 20,219 | 20,483 | 20,716 | 20,695 | 20,569 | 20,884 | 21,374 | 21,673 |
| Physics | 13,082 | 13,274 | 13,509 | 13,589 | 13,575 | 13,636 | 13,834 | 14,294 |
| Physical sciences, nec | 446 | 487 | 492 | 519 | 392 | 525 | 481 | 573 |
| Psychology[b] | 43,704 | 46,289 | 47,217 | 48,773 | 48,106 | 48,427 | 46,564 | 45,246 |
| Clinical psychology | 12,220 | 12,773 | 12,501 | 12,962 | 13,036 | 12,205 | 12,239 | 11,250 |
| Psychology, general | 11,640 | 12,126 | 12,133 | 13,281 | 13,013 | 13,133 | 11,841 | 11,248 |
| Psychology, nec | 19,844 | 21,390 | 22,583 | 22,530 | 22,057 | 23,089 | 22,484 | 22,748 |
| Social sciences | 85,418 | 87,754 | 91,173 | 92,883 | 91,300 | 91,684 | 95,225 | 95,916 |
| Agricultural economics | 2,195 | 2,121 | 2,151 | 2,120 | 1,983 | 2,126 | 2,215 | 2,171 |
| Anthropology (cultural/social) | 7,413 | 7,387 | 7,726 | 7,652 | 7,682 | 7,845 | 7,872 | 8,013 |
| Economics (except agricultural) | 11,649 | 11,160 | 11,438 | 11,659 | 11,928 | 12,275 | 13,200 | 13,450 |
| Geography | 4,295 | 4,259 | 4,228 | 4,089 | 4,089 | 4,148 | 4,196 | 4,401 |
| History and philosophy of science | 624 | 716 | 742 | 910 | 845 | 998 | 851 | 552 |
| Linguistics | 2,673 | 2,919 | 2,821 | 2,801 | 2,604 | 2,824 | 2,882 | 2,863 |
| Political science | 33,097 | 34,701 | 36,118 | 36,296 | 35,806 | 35,342 | 37,744 | 38,578 |

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology | 7,914 | 8,135 | 8,214 | 8,239 | 8,148 | 8,531 | 8,528 | 8,695 |
| Sociology/anthropology | 811 | 825 | 818 | 808 | 659 | 626 | 553 | 305 |
| Social sciences, nec | 14,747 | 15,531 | 16,917 | 18,309 | 17,556 | 16,969 | 17,184 | 16,888 |
| Engineering | 116,488 | 114,400 | 116,624 | 123,269 | 124,423 | 130,723 | 136,722 | 141,802 |
| Aerospace engineering | 3,997 | 4,055 | 4,357 | 4,480 | 4,480 | 4,761 | 5,096 | 5,474 |
| Agricultural engineering | 1,041 | 1,059 | 1,073 | 1,126 | 1,126 | 1,233 | 1,303 | 1,457 |
| Architecture[a] | na | na | na | na | 4,483 | 5,760 | 6,661 | 6,647 |
| Biomedical engineering | 5,749 | 6,015 | 6,430 | 6,848 | 6,871 | 7,334 | 7,879 | 8,439 |
| Chemical engineering | 7,334 | 7,054 | 7,151 | 7,291 | 7,492 | 7,794 | 8,077 | 8,573 |
| Civil engineering[a] | 17,881 | 17,455 | 17,158 | 19,189 | 15,461 | 16,169 | 17,708 | 18,499 |
| Electrical engineering | 36,132 | 35,248 | 35,948 | 37,708 | 37,887 | 38,248 | 38,070 | 38,609 |
| Engineering science | 2,134 | 1,910 | 1,967 | 1,824 | 1,772 | 1,932 | 2,004 | 2,020 |
| Industrial engineering | 12,951 | 12,760 | 12,959 | 13,333 | 13,504 | 14,758 | 14,626 | 13,936 |
| Mechanical engineering | 17,128 | 16,681 | 17,156 | 17,834 | 17,815 | 18,723 | 20,201 | 21,519 |
| Metallurgical/materials engineering | 4,998 | 5,115 | 5,223 | 5,310 | 5,259 | 5,486 | 5,822 | 6,216 |
| Mining engineering | 298 | 265 | 238 | 296 | 211 | 283 | 302 | 408 |
| Nuclear engineering | 971 | 1,013 | 1,099 | 1,208 | 1,180 | 1,201 | 1,243 | 1,459 |
| Petroleum engineering | 843 | 806 | 808 | 1,006 | 1,006 | 1,000 | 1,184 | 1,289 |
| Engineering, nec | 5,031 | 4,964 | 5,057 | 5,816 | 5,876 | 6,041 | 6,546 | 7,257 |
| Health[b] | 85,893 | 90,728 | 97,036 | 93,901 | 91,835 | 91,530 | 76,660 | 67,671 |
| Clinical medicine | 19,863 | 20,403 | 22,425 | 23,573 | 21,686 | 22,803 | 22,670 | 24,068 |
| Anesthesiology | 1,027 | 1,042 | 1,042 | 589 | 589 | 294 | 163 | 66 |
| Cardiology | 39 | 33 | 32 | 26 | 26 | 45 | 45 | 48 |
| Endocrinology | 63 | 56 | 42 | 40 | 40 | 64 | 50 | 53 |
| Gastroenterology | 16 | 7 | 18 | 28 | 28 | 15 | 15 | 7 |
| Hematology | 30 | 13 | 14 | 9 | 9 | 8 | 11 | 6 |
| Neurology[a] | 2,642 | 2,763 | 2,959 | 3,358 | 1,751 | 1,462 | 1,323 | 1,056 |
| Obstetrics/gynecology | 17 | 21 | 54 | 81 | 81 | 83 | 89 | 79 |
| Oncology/cancer research | 274 | 331 | 341 | 355 | 264 | 260 | 272 | 232 |
| Ophthalmology | 423 | 394 | 414 | 407 | 379 | 1 | 1 | 5 |
| Otorhinolaryngology | 12 | 12 | 14 | 15 | 15 | 14 | 4 | 4 |
| Pediatrics | 424 | 278 | 284 | 302 | 302 | 207 | 186 | 211 |
| Preventive medicine/community health | 11,946 | 12,131 | 13,821 | 14,945 | 15,517 | 17,105 | 17,586 | 19,076 |
| Psychiatry | 348 | 250 | 274 | 278 | 218 | 188 | 233 | 260 |
| Pulmonary disease | 7 | 27 | 10 | 24 | 24 | 13 | 13 | 12 |
| Radiology | 211 | 215 | 225 | 270 | 281 | 320 | 385 | 396 |
| Surgery | 75 | 88 | 105 | 47 | 31 | 31 | 40 | 59 |
| Clinical medicine, nec | 2,309 | 2,742 | 2,776 | 2,799 | 2,131 | 2,693 | 2,254 | 2,498 |
| Other health[b] | 66,030 | 70,325 | 74,611 | 70,328 | 70,149 | 68,727 | 53,990 | 43,603 |
| Dental sciences | 1,946 | 1,748 | 1,614 | 1,537 | 1,688 | 1,643 | 1,770 | 1,661 |
| Nursing | 25,081 | 26,699 | 29,760 | 27,901 | 27,901 | 26,779 | 18,706 | 10,415 |
| Pharmaceutical sciences | 5,218 | 6,088 | 6,311 | 4,959 | 5,061 | 4,245 | 4,435 | 4,280 |

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 11,010 | 11,851 | 11,892 | 12,820 | 12,812 | 12,769 | 11,377 | 11,305 |
| Veterinary sciences | 1,732 | 1,970 | 2,067 | 2,020 | 2,371 | 2,478 | 2,170 | 2,211 |
| Other health, nec | 21,043 | 21,969 | 22,967 | 21,091 | 20,316 | 20,813 | 15,532 | 13,731 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 363,543 | 366,019 | 372,074 | 379,576 | 387,725 | 396,733 | 399,013 | 402,741 |
| Science and engineering | 302,992 | 303,409 | 306,122 | 314,948 | 324,148 | 333,478 | 345,236 | 353,439 |
| Science | 216,561 | 219,780 | 222,064 | 225,512 | 233,884 | 238,463 | 245,153 | 250,472 |
| Agricultural sciences | 11,988 | 11,689 | 11,561 | 11,721 | 12,016 | 12,521 | 13,224 | 13,793 |
| Biological sciences | 43,632 | 45,094 | 45,934 | 46,790 | 46,594 | 46,699 | 46,533 | 47,208 |
| Anatomy | 611 | 646 | 607 | 638 | 510 | 456 | 528 | 519 |
| Biochemistry | 3,821 | 4,012 | 3,982 | 4,130 | 4,075 | 3,659 | 3,634 | 3,660 |
| Biology | 9,338 | 9,524 | 10,027 | 9,669 | 9,464 | 10,001 | 10,008 | 9,976 |
| Biometry/epidemiology | 2,724 | 2,782 | 2,881 | 3,105 | 3,260 | 3,357 | 3,134 | 3,684 |
| Biophysics | 732 | 739 | 772 | 766 | 745 | 676 | 641 | 645 |
| Botany | 1,759 | 1,787 | 1,773 | 1,812 | 1,742 | 1,726 | 1,753 | 1,789 |
| Cell biology | 3,640 | 3,903 | 4,149 | 4,285 | 4,396 | 4,581 | 4,522 | 4,437 |
| Ecology | 1,841 | 1,806 | 1,810 | 1,789 | 1,645 | 1,649 | 1,383 | 1,444 |
| Entomology/parasitology | 1,197 | 1,094 | 1,079 | 1,043 | 1,043 | 1,047 | 1,047 | 1,084 |
| Genetics | 1,231 | 1,285 | 1,286 | 1,285 | 1,228 | 1,233 | 1,247 | 1,343 |
| Microbiology/immunology/virology | 3,389 | 3,405 | 3,336 | 3,309 | 3,273 | 3,195 | 3,140 | 3,056 |
| Nutrition | 3,367 | 3,527 | 3,653 | 3,817 | 3,457 | 3,579 | 3,603 | 3,652 |
| Pathology | 998 | 958 | 1,006 | 955 | 867 | 859 | 824 | 830 |
| Pharmacology | 2,025 | 2,104 | 1,923 | 1,978 | 2,010 | 1,982 | 2,058 | 1,965 |
| Physiology | 1,274 | 1,272 | 1,358 | 1,396 | 1,691 | 1,774 | 1,854 | 1,942 |
| Zoology | 1,204 | 1,254 | 1,138 | 1,078 | 1,102 | 919 | 869 | 889 |
| Biological sciences, nec | 4,481 | 4,996 | 5,154 | 5,735 | 6,086 | 6,006 | 6,288 | 6,293 |
| Communication[a] | ne | ne | ne | ne | 5,094 | 5,675 | 6,319 | 6,359 |
| Computer sciences | 27,826 | 27,166 | 26,903 | 27,407 | 27,026 | 27,698 | 29,133 | 29,838 |
| Earth, atmospheric, and ocean sciences | 11,823 | 11,641 | 11,656 | 11,509 | 11,051 | 11,218 | 11,489 | 12,239 |
| Atmospheric sciences | 1,033 | 1,082 | 1,039 | 1,059 | 1,120 | 1,328 | 1,287 | 1,378 |
| Geosciences | 5,717 | 5,689 | 5,627 | 5,648 | 5,586 | 5,580 | 5,960 | 6,523 |
| Oceanography | 2,276 | 2,181 | 2,196 | 2,104 | 2,056 | 2,028 | 2,033 | 1,914 |
| Earth/atmospheric/ocean sciences, nec | 2,797 | 2,689 | 2,794 | 2,698 | 2,289 | 2,282 | 2,209 | 2,424 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 2,291 | 2,645 | 2,675 | 3,138 |
| Mathematical sciences | 14,144 | 14,422 | 14,594 | 15,006 | 14,883 | 15,288 | 15,957 | 16,523 |
| Mathematics/applied mathematics | 11,064 | 11,300 | 11,457 | 11,632 | 11,521 | 11,553 | 12,275 | 12,516 |
| Statistics | 3,080 | 3,122 | 3,137 | 3,374 | 3,362 | 3,735 | 3,682 | 4,007 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,944 | 3,586 | 4,115 | 5,045 |
| Neuroscience[a] | na | na | na | na | 1,007 | 1,168 | 1,308 | 1,673 |
| Physical sciences | 25,685 | 26,341 | 26,520 | 26,502 | 26,234 | 26,566 | 27,342 | 27,770 |
| Astronomy | 663 | 690 | 679 | 698 | 697 | 704 | 821 | 707 |
| Chemistry | 14,928 | 15,309 | 15,394 | 15,263 | 15,137 | 15,373 | 15,872 | 16,025 |
| Physics | 9,655 | 9,862 | 9,963 | 10,030 | 10,016 | 10,085 | 10,295 | 10,661 |
| Physical sciences, nec | 439 | 480 | 484 | 511 | 384 | 404 | 354 | 377 |
| Psychology[b] | 21,844 | 22,244 | 22,204 | 23,759 | 23,220 | 23,681 | 22,917 | 22,228 |
| Clinical psychology | 3,104 | 2,972 | 3,006 | 3,075 | 3,084 | 3,001 | 3,174 | 3,284 |
| Psychology, general | 7,924 | 8,483 | 8,752 | 8,671 | 8,608 | 8,909 | 8,185 | 7,476 |
| Psychology, nec | 10,816 | 10,789 | 10,446 | 12,013 | 11,528 | 11,771 | 11,558 | 11,468 |
| Social sciences | 59,619 | 61,183 | 62,692 | 62,818 | 61,524 | 61,718 | 64,141 | 64,658 |
| Agricultural economics | 2,110 | 2,049 | 2,081 | 2,047 | 1,910 | 2,045 | 2,130 | 2,083 |
| Anthropology (cultural/social) | 5,546 | 5,497 | 5,800 | 5,711 | 5,741 | 5,848 | 5,913 | 6,039 |
| Economics (except agricultural) | 8,008 | 7,689 | 7,834 | 7,814 | 7,956 | 8,132 | 8,783 | 8,900 |
| Geography | 3,999 | 3,986 | 3,921 | 3,771 | 3,771 | 3,807 | 3,848 | 4,022 |
| History and philosophy of science | 406 | 477 | 515 | 677 | 663 | 733 | 706 | 407 |
| Linguistics | 2,027 | 2,061 | 2,203 | 2,159 | 2,079 | 2,207 | 2,260 | 2,214 |
| Political science | 20,099 | 20,618 | 20,686 | 20,963 | 20,663 | 20,444 | 21,582 | 22,370 |
| Sociology | 5,958 | 6,121 | 6,186 | 6,239 | 6,213 | 6,643 | 6,559 | 6,726 |

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology/anthropology | 676 | 687 | 711 | 728 | 579 | 542 | 467 | 231 |
| Social sciences, nec | 10,790 | 11,998 | 12,755 | 12,709 | 11,949 | 11,317 | 11,893 | 11,666 |
| Engineering | 86,431 | 83,629 | 84,058 | 89,436 | 90,264 | 95,015 | 100,083 | 102,967 |
| Aerospace engineering | 2,935 | 2,964 | 3,154 | 3,275 | 3,275 | 3,533 | 3,929 | 4,163 |
| Agricultural engineering | 979 | 999 | 1,011 | 1,059 | 1,059 | 1,173 | 1,230 | 1,277 |
| Architecture[a] | na | na | na | na | 3,610 | 4,597 | 5,362 | 5,389 |
| Biomedical engineering | 3,688 | 3,793 | 3,984 | 4,308 | 4,308 | 4,783 | 4,873 | 5,152 |
| Chemical engineering | 5,352 | 5,072 | 5,052 | 5,104 | 5,248 | 5,458 | 5,717 | 5,914 |
| Civil engineering[a] | 14,487 | 14,136 | 13,783 | 15,204 | 12,349 | 12,974 | 14,233 | 14,820 |
| Electrical engineering | 26,032 | 24,978 | 25,047 | 26,639 | 26,833 | 27,218 | 27,594 | 27,495 |
| Engineering science | 1,349 | 1,078 | 1,088 | 1,115 | 1,059 | 1,255 | 1,361 | 1,297 |
| Industrial engineering | 8,766 | 8,163 | 8,270 | 9,023 | 8,714 | 9,491 | 9,137 | 8,547 |
| Mechanical engineering | 13,168 | 12,536 | 12,686 | 12,814 | 12,795 | 13,321 | 14,502 | 15,632 |
| Metallurgical/materials engineering | 3,741 | 3,947 | 4,010 | 4,078 | 4,027 | 4,144 | 4,389 | 4,680 |
| Mining engineering | 298 | 265 | 238 | 296 | 211 | 283 | 302 | 408 |
| Nuclear engineering | 872 | 913 | 992 | 1,086 | 1,058 | 1,065 | 1,110 | 1,315 |
| Petroleum engineering | 706 | 690 | 696 | 887 | 887 | 854 | 1,009 | 1,105 |
| Engineering, nec | 4,058 | 4,095 | 4,047 | 4,548 | 4,831 | 4,866 | 5,335 | 5,773 |
| Health[b] | 60,551 | 62,610 | 65,952 | 64,628 | 63,577 | 63,255 | 53,777 | 49,302 |
| Clinical medicine | 11,906 | 12,207 | 12,447 | 14,240 | 13,275 | 14,232 | 14,385 | 15,472 |
| Anesthesiology | 565 | 544 | 547 | 388 | 388 | 157 | 104 | 11 |
| Cardiology | 0 | 0 | 3 | 0 | 0 | 25 | 24 | 29 |
| Endocrinology | 62 | 56 | 42 | 40 | 40 | 44 | 50 | 52 |
| Gastroenterology | 16 | 7 | 18 | 19 | 19 | 7 | 13 | 2 |
| Hematology | 23 | 13 | 14 | 8 | 8 | 5 | 8 | 5 |
| Neurology[a] | 1,419 | 1,477 | 1,548 | 1,856 | 814 | 671 | 637 | 454 |
| Obstetrics/gynecology | 3 | 10 | 16 | 14 | 14 | 5 | 8 | 11 |
| Oncology/cancer research | 137 | 186 | 179 | 202 | 171 | 124 | 149 | 127 |
| Ophthalmology | 404 | 392 | 406 | 407 | 379 | 1 | 1 | 5 |
| Otorhinolaryngology | 12 | 12 | 12 | 12 | 12 | 14 | 4 | 1 |
| Pediatrics | 355 | 211 | 211 | 231 | 231 | 147 | 114 | 119 |
| Preventive medicine/community health | 7,170 | 7,367 | 7,531 | 8,738 | 9,115 | 10,389 | 10,872 | 12,078 |
| Psychiatry | 302 | 197 | 236 | 233 | 173 | 133 | 165 | 177 |
| Pulmonary disease | 6 | 26 | 9 | 10 | 10 | 12 | 13 | 12 |
| Radiology | 185 | 192 | 198 | 253 | 264 | 273 | 306 | 284 |
| Surgery | 68 | 81 | 99 | 40 | 24 | 18 | 28 | 48 |
| Clinical medicine, nec | 1,179 | 1,436 | 1,378 | 1,789 | 1,613 | 2,207 | 1,889 | 2,057 |
| Other health[b] | 48,645 | 50,403 | 53,505 | 50,388 | 50,302 | 49,023 | 39,392 | 33,830 |
| Dental sciences | 1,629 | 1,447 | 1,311 | 1,190 | 1,298 | 1,333 | 1,303 | 1,216 |
| Nursing | 20,165 | 20,405 | 22,280 | 20,303 | 20,303 | 18,975 | 11,690 | 7,540 |
| Pharmaceutical sciences | 3,964 | 4,302 | 4,257 | 3,493 | 3,589 | 3,211 | 3,483 | 3,435 |
| Speech pathology/audiology | 8,028 | 8,621 | 8,769 | 9,601 | 9,593 | 9,543 | 9,624 | 9,470 |
| Veterinary sciences | 1,674 | 1,858 | 1,951 | 1,872 | 2,124 | 2,244 | 1,981 | 1,997 |
| Other health, nec | 13,185 | 13,770 | 14,937 | 13,929 | 13,395 | 13,717 | 11,311 | 10,172 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 18. Graduate students in science and engineering in doctorate-granting institutions, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Enrollment status, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 432,748 | 436,320 | 445,037 | 457,931 | 469,517 | 482,711 | 497,223 | 508,114 |
| U.S. citizens and permanent residents | 294,384 | 301,565 | 308,425 | 316,140 | 326,029 | 331,190 | 342,119 | 349,845 |
| Hispanic or Latino | 18,712 | 19,760 | 20,420 | 21,188 | 21,719 | 22,174 | 23,131 | 24,439 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,583 | 1,683 | 1,843 | 1,889 | 1,973 | 2,277 | 2,285 | 2,202 |
| Asian[b] | 25,136 | 25,351 | 25,807 | 26,784 | 27,275 | 26,833 | 28,333 | 28,913 |
| Black or African American | 20,611 | 21,160 | 21,850 | 22,765 | 23,563 | 24,359 | 25,513 | 26,470 |
| Native Hawaiian or Other Pacific Islander[b] | 805 | 811 | 760 | 951 | 1,005 | 801 | 902 | 913 |
| White | 203,493 | 204,845 | 208,070 | 211,323 | 218,172 | 221,451 | 227,567 | 232,197 |
| More than one race[b] | 453 | 517 | 482 | 532 | 540 | 1,193 | 2,080 | 4,354 |
| Unknown ethnicity/race | 23,591 | 27,438 | 29,193 | 30,708 | 31,782 | 32,102 | 32,308 | 30,357 |
| Temporary visa holders | 138,364 | 134,755 | 136,612 | 141,791 | 143,488 | 151,521 | 155,104 | 158,269 |
| Full-time enrollment | 322,655 | 323,371 | 331,382 | 342,430 | 350,133 | 362,344 | 376,569 | 386,384 |
| U.S. citizens and permanent residents | 202,854 | 205,484 | 210,783 | 217,999 | 224,239 | 229,834 | 239,731 | 246,304 |
| Hispanic or Latino | 12,893 | 13,392 | 13,885 | 14,400 | 14,716 | 15,015 | 16,093 | 17,033 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 1,131 | 1,153 | 1,308 | 1,311 | 1,352 | 1,573 | 1,601 | 1,537 |
| Asian[b] | 17,581 | 17,480 | 18,166 | 19,204 | 19,546 | 19,037 | 20,399 | 21,048 |
| Black or African American | 12,634 | 12,596 | 13,262 | 13,611 | 14,045 | 15,253 | 16,131 | 16,466 |
| Native Hawaiian or Other Pacific Islander[b] | 614 | 651 | 568 | 674 | 715 | 587 | 653 | 605 |
| White | 142,931 | 143,048 | 145,374 | 148,610 | 152,924 | 156,422 | 162,190 | 166,271 |
| More than one race[b] | 357 | 404 | 406 | 395 | 400 | 782 | 1,460 | 3,300 |
| Unknown ethnicity/race | 14,713 | 16,760 | 17,814 | 19,794 | 20,541 | 21,165 | 21,204 | 20,044 |
| Temporary visa holders | 119,801 | 117,887 | 120,599 | 124,431 | 125,894 | 132,510 | 136,838 | 140,080 |
| Part-time enrollment | 110,093 | 112,949 | 113,655 | 115,501 | 119,384 | 120,367 | 120,654 | 121,730 |
| U.S. citizens and permanent residents | 91,530 | 96,081 | 97,642 | 98,141 | 101,790 | 101,356 | 102,388 | 103,541 |
| Hispanic or Latino | 5,819 | 6,368 | 6,535 | 6,788 | 7,003 | 7,159 | 7,038 | 7,406 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | 452 | 530 | 535 | 578 | 621 | 704 | 684 | 665 |
| Asian[b] | 7,555 | 7,871 | 7,641 | 7,580 | 7,729 | 7,796 | 7,934 | 7,865 |
| Black or African American | 7,977 | 8,564 | 8,588 | 9,154 | 9,518 | 9,106 | 9,382 | 10,004 |
| Native Hawaiian or Other Pacific Islander[b] | 191 | 160 | 192 | 277 | 290 | 214 | 249 | 308 |
| White | 60,562 | 61,797 | 62,696 | 62,713 | 65,248 | 65,029 | 65,377 | 65,926 |
| More than one race[b] | 96 | 113 | 76 | 137 | 140 | 411 | 620 | 1,054 |
| Unknown ethnicity/race | 8,878 | 10,678 | 11,379 | 10,914 | 11,241 | 10,937 | 11,104 | 10,313 |
| Temporary visa holders | 18,563 | 16,868 | 16,013 | 17,360 | 17,594 | 19,011 | 18,266 | 18,189 |

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 377,984 | 381,198 | 393,138 | 403,722 | 409,421 | 422,287 | 428,856 | 433,252 |
| Federal | 82,597 | 82,328 | 82,901 | 80,403 | 80,691 | 76,903 | 80,244 | 85,272 |
| DOD | 8,967 | 8,948 | 8,826 | 8,809 | 8,820 | 8,180 | 8,649 | 9,172 |
| DOE | 4,130 | 4,386 | 4,469 | 4,277 | 4,280 | 4,335 | 4,601 | 5,500 |
| HHS | 30,613 | 30,489 | 31,028 | 29,852 | 29,904 | 28,354 | 28,638 | 29,757 |
| NIH | 26,617 | 26,798 | 27,543 | 26,885 | 26,918 | 25,913 | 26,454 | 27,521 |
| Other HHS | 3,996 | 3,691 | 3,485 | 2,967 | 2,986 | 2,441 | 2,184 | 2,236 |
| NASA | 2,900 | 2,672 | 2,352 | 2,309 | 2,312 | 2,328 | 2,418 | 2,459 |
| NSF | 19,859 | 20,257 | 20,255 | 19,668 | 19,713 | 19,805 | 21,602 | 23,139 |
| USDA | 3,552 | 3,339 | 2,994 | 2,790 | 2,804 | 2,759 | 2,697 | 3,041 |
| Other | 12,576 | 12,237 | 12,977 | 12,698 | 12,858 | 11,142 | 11,639 | 12,204 |
| Institutional | 149,182 | 150,941 | 154,856 | 162,019 | 165,084 | 174,047 | 172,414 | 171,734 |
| Other nonfederal | 26,720 | 26,703 | 27,640 | 26,759 | 26,908 | 25,717 | 26,585 | 25,934 |
| Domestic | 23,936 | 24,171 | 25,017 | 23,901 | 24,041 | 21,962 | 22,666 | 21,822 |
| Foreign | 2,784 | 2,532 | 2,623 | 2,858 | 2,867 | 3,755 | 3,919 | 4,112 |
| Self-support | 119,485 | 121,226 | 127,741 | 134,541 | 136,738 | 145,620 | 149,613 | 150,312 |
| Science and engineering | 322,655 | 323,371 | 331,382 | 342,430 | 350,133 | 362,344 | 376,569 | 386,384 |
| Federal | 73,436 | 73,700 | 73,692 | 71,927 | 73,048 | 70,383 | 74,728 | 79,554 |
| DOD | 8,639 | 8,601 | 8,465 | 8,475 | 8,497 | 7,864 | 8,411 | 8,898 |
| DOE | 4,114 | 4,370 | 4,442 | 4,241 | 4,246 | 4,311 | 4,587 | 5,476 |
| HHS | 23,650 | 23,881 | 24,331 | 23,621 | 24,461 | 23,947 | 24,682 | 25,586 |
| NIH | 22,319 | 22,731 | 23,286 | 22,602 | 23,425 | 22,829 | 23,521 | 24,349 |
| Other HHS | 1,331 | 1,150 | 1,045 | 1,019 | 1,036 | 1,118 | 1,161 | 1,237 |
| NASA | 2,875 | 2,652 | 2,338 | 2,301 | 2,305 | 2,320 | 2,415 | 2,366 |
| NSF | 19,690 | 20,049 | 19,972 | 19,446 | 19,515 | 19,599 | 21,433 | 22,946 |
| USDA | 3,468 | 3,252 | 2,896 | 2,715 | 2,715 | 2,691 | 2,616 | 2,941 |
| Other | 11,000 | 10,895 | 11,248 | 11,128 | 11,309 | 9,651 | 10,584 | 11,341 |
| Institutional | 137,071 | 137,828 | 141,069 | 146,694 | 150,326 | 159,833 | 159,636 | 159,696 |
| Other nonfederal | 24,155 | 24,089 | 24,598 | 23,859 | 24,108 | 23,440 | 24,146 | 23,836 |
| Domestic | 21,615 | 21,748 | 22,156 | 21,248 | 21,483 | 19,933 | 20,519 | 20,067 |
| Foreign | 2,540 | 2,341 | 2,442 | 2,611 | 2,625 | 3,507 | 3,627 | 3,769 |
| Self-support | 87,993 | 87,754 | 92,023 | 99,950 | 102,651 | 108,688 | 118,059 | 123,298 |
| Science | 238,039 | 241,130 | 246,248 | 252,596 | 259,222 | 267,267 | 275,074 | 279,950 |
| Federal | 52,246 | 52,535 | 52,441 | 51,020 | 51,974 | 49,682 | 51,903 | 54,399 |
| DOD | 3,340 | 3,275 | 3,134 | 3,206 | 3,185 | 3,100 | 3,193 | 3,466 |
| DOE | 2,357 | 2,456 | 2,508 | 2,484 | 2,482 | 2,475 | 2,523 | 2,782 |
| HHS | 21,517 | 21,627 | 21,850 | 21,002 | 21,835 | 21,165 | 21,731 | 22,256 |
| NIH | 20,412 | 20,663 | 20,940 | 20,138 | 20,954 | 20,180 | 20,758 | 21,248 |
| Other HHS | 1,105 | 964 | 910 | 864 | 881 | 985 | 973 | 1,008 |
| NASA | 1,451 | 1,382 | 1,292 | 1,302 | 1,298 | 1,304 | 1,295 | 1,367 |
| NSF | 12,943 | 13,211 | 13,065 | 12,818 | 12,791 | 12,761 | 13,808 | 14,578 |
| USDA | 3,060 | 2,919 | 2,564 | 2,411 | 2,415 | 2,392 | 2,333 | 2,606 |
| Other | 7,578 | 7,665 | 8,028 | 7,797 | 7,968 | 6,485 | 7,020 | 7,344 |
| Institutional | 106,522 | 108,539 | 110,816 | 114,596 | 117,932 | 125,045 | 124,895 | 124,920 |
| Other nonfederal | 14,375 | 14,379 | 14,889 | 14,488 | 14,636 | 13,910 | 14,057 | 13,771 |
| Domestic | 12,719 | 12,882 | 13,283 | 12,921 | 13,075 | 11,866 | 11,909 | 11,566 |
| Foreign | 1,656 | 1,497 | 1,606 | 1,567 | 1,561 | 2,044 | 2,148 | 2,205 |
| Self-support | 64,896 | 65,677 | 68,102 | 72,492 | 74,680 | 78,630 | 84,219 | 86,860 |
| Agricultural sciences | 9,509 | 9,185 | 8,977 | 9,103 | 9,276 | 9,564 | 10,246 | 10,505 |
| Federal | 2,496 | 2,319 | 2,259 | 2,241 | 2,293 | 2,010 | 2,170 | 2,399 |
| DOD | 24 | 24 | 25 | 58 | 57 | 26 | 23 | 26 |
| DOE | 49 | 53 | 42 | 53 | 53 | 38 | 58 | 70 |
| HHS | 90 | 84 | 78 | 74 | 74 | 68 | 69 | 77 |
| NIH | 67 | 74 | 67 | 52 | 52 | 61 | 52 | 68 |
| Other HHS | 23 | 10 | 11 | 22 | 22 | 7 | 17 | 9 |
| NASA | 52 | 49 | 42 | 41 | 47 | 39 | 41 | 41 |
| NSF | 202 | 211 | 216 | 257 | 257 | 222 | 265 | 339 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| USDA | 1,369 | 1,277 | 1,169 | 1,029 | 1,081 | 1,064 | 1,108 | 1,242 |
| Other | 710 | 621 | 687 | 729 | 724 | 553 | 606 | 604 |
| Institutional | 3,926 | 3,888 | 3,993 | 4,169 | 4,320 | 4,716 | 4,606 | 4,528 |
| Other nonfederal | 1,571 | 1,455 | 1,286 | 1,219 | 1,238 | 1,259 | 1,323 | 1,360 |
| Domestic | 1,443 | 1,351 | 1,208 | 1,161 | 1,175 | 1,128 | 1,237 | 1,235 |
| Foreign | 128 | 104 | 78 | 58 | 63 | 131 | 86 | 125 |
| Self-support | 1,516 | 1,523 | 1,439 | 1,474 | 1,425 | 1,579 | 2,147 | 2,218 |
| Biological sciences | 54,139 | 55,836 | 57,082 | 58,011 | 58,327 | 58,501 | 59,235 | 60,028 |
| Federal | 21,624 | 21,967 | 22,091 | 20,925 | 20,868 | 19,841 | 20,420 | 21,139 |
| DOD | 430 | 346 | 360 | 360 | 356 | 398 | 402 | 437 |
| DOE | 224 | 253 | 213 | 178 | 177 | 176 | 198 | 208 |
| HHS | 16,100 | 16,167 | 16,595 | 15,717 | 15,726 | 15,082 | 15,504 | 15,888 |
| NIH | 15,585 | 15,648 | 16,086 | 15,303 | 15,322 | 14,624 | 15,109 | 15,429 |
| Other HHS | 515 | 519 | 509 | 414 | 404 | 458 | 395 | 459 |
| NASA | 105 | 94 | 81 | 65 | 67 | 51 | 54 | 65 |
| NSF | 2,255 | 2,292 | 2,204 | 2,118 | 2,119 | 2,123 | 2,279 | 2,367 |
| USDA | 1,072 | 1,071 | 904 | 901 | 841 | 791 | 769 | 830 |
| Other | 1,438 | 1,744 | 1,734 | 1,586 | 1,582 | 1,220 | 1,214 | 1,344 |
| Institutional | 21,736 | 22,760 | 23,134 | 24,465 | 24,355 | 25,173 | 24,818 | 24,415 |
| Other nonfederal | 3,766 | 3,939 | 4,207 | 4,086 | 4,058 | 3,892 | 3,863 | 3,770 |
| Domestic | 3,522 | 3,681 | 3,918 | 3,816 | 3,792 | 3,515 | 3,401 | 3,268 |
| Foreign | 244 | 258 | 289 | 270 | 266 | 377 | 462 | 502 |
| Self-support | 7,013 | 7,170 | 7,650 | 8,535 | 9,046 | 9,595 | 10,134 | 10,704 |
| Communication[a] | ne | ne | ne | ne | 4,049 | 4,642 | 5,429 | 5,588 |
| Federal | ne | ne | ne | ne | 116 | 91 | 119 | 137 |
| DOD | ne | ne | ne | ne | 8 | 8 | 19 | 21 |
| DOE | ne | ne | ne | ne | 0 | 0 | 1 | 1 |
| HHS | ne | ne | ne | ne | 23 | 28 | 27 | 32 |
| NIH | ne | ne | ne | ne | 19 | 24 | 20 | 22 |
| Other HHS | ne | ne | ne | ne | 4 | 4 | 7 | 10 |
| NASA | ne | ne | ne | ne | 0 | 0 | 0 | 0 |
| NSF | ne | ne | ne | ne | 14 | 19 | 40 | 48 |
| USDA | ne | ne | ne | ne | 7 | 5 | 5 | 4 |
| Other | ne | ne | ne | ne | 64 | 31 | 27 | 31 |
| Institutional | ne | ne | ne | ne | 2,303 | 2,725 | 2,921 | 2,898 |
| Other nonfederal | ne | ne | ne | ne | 209 | 303 | 301 | 287 |
| Domestic | ne | ne | ne | ne | 185 | 293 | 289 | 269 |
| Foreign | ne | ne | ne | ne | 24 | 10 | 12 | 18 |
| Self-support | ne | ne | ne | ne | 1,421 | 1,523 | 2,088 | 2,266 |
| Computer sciences | 27,204 | 26,524 | 26,937 | 28,285 | 27,874 | 28,850 | 29,669 | 30,080 |
| Federal | 5,100 | 5,326 | 5,008 | 5,135 | 5,060 | 4,920 | 5,236 | 5,764 |
| DOD | 1,182 | 1,403 | 1,196 | 1,243 | 1,220 | 1,201 | 1,216 | 1,299 |
| DOE | 155 | 156 | 164 | 176 | 178 | 141 | 143 | 188 |
| HHS | 294 | 327 | 310 | 358 | 357 | 367 | 341 | 385 |
| NIH | 261 | 289 | 268 | 331 | 329 | 324 | 307 | 330 |
| Other HHS | 33 | 38 | 42 | 27 | 28 | 43 | 34 | 55 |
| NASA | 141 | 95 | 85 | 102 | 102 | 82 | 74 | 64 |
| NSF | 2,739 | 2,810 | 2,708 | 2,744 | 2,693 | 2,630 | 2,874 | 3,157 |
| USDA | 37 | 21 | 32 | 28 | 29 | 10 | 11 | 19 |
| Other | 552 | 514 | 513 | 484 | 481 | 489 | 577 | 652 |
| Institutional | 8,574 | 8,530 | 8,528 | 8,740 | 8,648 | 9,451 | 9,574 | 8,911 |
| Other nonfederal | 1,698 | 1,632 | 1,625 | 1,495 | 1,360 | 1,288 | 1,430 | 1,398 |
| Domestic | 1,519 | 1,453 | 1,421 | 1,295 | 1,181 | 1,070 | 1,172 | 1,157 |
| Foreign | 179 | 179 | 204 | 200 | 179 | 218 | 258 | 241 |
| Self-support | 11,832 | 11,036 | 11,776 | 12,915 | 12,806 | 13,191 | 13,429 | 14,007 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Earth, atmospheric, and ocean sciences | 11,265 | 10,999 | 11,102 | 10,973 | 10,570 | 10,874 | 11,211 | 11,868 |
| Federal | 3,309 | 3,277 | 3,285 | 3,275 | 3,161 | 3,090 | 3,078 | 3,272 |
| DOD | 128 | 153 | 131 | 116 | 111 | 114 | 99 | 118 |
| DOE | 170 | 166 | 117 | 148 | 145 | 148 | 145 | 176 |
| HHS | 42 | 29 | 64 | 26 | 26 | 30 | 36 | 34 |
| NIH | 25 | 17 | 55 | 25 | 25 | 22 | 24 | 24 |
| Other HHS | 17 | 12 | 9 | 1 | 1 | 8 | 12 | 10 |
| NASA | 456 | 457 | 417 | 429 | 417 | 433 | 444 | 458 |
| NSF | 1,497 | 1,493 | 1,537 | 1,496 | 1,445 | 1,445 | 1,459 | 1,571 |
| USDA | 92 | 73 | 70 | 79 | 67 | 71 | 50 | 44 |
| Other | 924 | 906 | 949 | 981 | 950 | 849 | 845 | 871 |
| Institutional | 5,043 | 4,842 | 4,787 | 4,811 | 4,603 | 4,898 | 5,039 | 5,217 |
| Other nonfederal | 864 | 941 | 1,059 | 885 | 858 | 912 | 926 | 949 |
| Domestic | 792 | 845 | 980 | 788 | 768 | 769 | 775 | 769 |
| Foreign | 72 | 96 | 79 | 97 | 90 | 143 | 151 | 180 |
| Self-support | 2,049 | 1,939 | 1,971 | 2,002 | 1,948 | 1,974 | 2,168 | 2,430 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 1,489 | 1,754 | 1,903 | 2,118 |
| Federal | ne | ne | ne | ne | 91 | 99 | 111 | 123 |
| DOD | ne | ne | ne | ne | 3 | 6 | 7 | 3 |
| DOE | ne | ne | ne | ne | 0 | 0 | 0 | 0 |
| HHS | ne | ne | ne | ne | 47 | 38 | 49 | 56 |
| NIH | ne | ne | ne | ne | 31 | 28 | 40 | 39 |
| Other HHS | ne | ne | ne | ne | 16 | 10 | 9 | 17 |
| NASA | ne | ne | ne | ne | 0 | 0 | 0 | 0 |
| NSF | ne | ne | ne | ne | 9 | 9 | 13 | 11 |
| USDA | ne | ne | ne | ne | 4 | 24 | 11 | 19 |
| Other | ne | ne | ne | ne | 28 | 22 | 31 | 34 |
| Institutional | ne | ne | ne | ne | 743 | 951 | 928 | 1,097 |
| Other nonfederal | ne | ne | ne | ne | 78 | 102 | 105 | 90 |
| Domestic | ne | ne | ne | ne | 78 | 100 | 103 | 83 |
| Foreign | ne | ne | ne | ne | 0 | 2 | 2 | 7 |
| Self-support | ne | ne | ne | ne | 577 | 602 | 759 | 808 |
| Mathematical sciences | 14,357 | 14,652 | 14,995 | 15,311 | 15,013 | 15,636 | 16,328 | 16,917 |
| Federal | 1,690 | 1,718 | 1,738 | 1,691 | 1,654 | 1,594 | 1,869 | 1,854 |
| DOD | 163 | 184 | 175 | 173 | 162 | 169 | 148 | 164 |
| DOE | 64 | 69 | 64 | 54 | 53 | 49 | 51 | 61 |
| HHS | 174 | 165 | 178 | 189 | 192 | 171 | 205 | 217 |
| NIH | 154 | 155 | 152 | 159 | 163 | 155 | 183 | 198 |
| Other HHS | 20 | 10 | 26 | 30 | 29 | 16 | 22 | 19 |
| NASA | 24 | 24 | 18 | 16 | 12 | 13 | 20 | 18 |
| NSF | 1,018 | 1,011 | 1,006 | 987 | 963 | 977 | 1,139 | 1,097 |
| USDA | 33 | 35 | 19 | 19 | 19 | 15 | 16 | 36 |
| Other | 214 | 230 | 278 | 253 | 253 | 200 | 290 | 261 |
| Institutional | 9,725 | 9,883 | 9,910 | 10,063 | 9,997 | 10,606 | 10,507 | 10,746 |
| Other nonfederal | 371 | 425 | 459 | 515 | 503 | 420 | 474 | 492 |
| Domestic | 295 | 342 | 390 | 460 | 455 | 324 | 349 | 338 |
| Foreign | 76 | 83 | 69 | 55 | 48 | 96 | 125 | 154 |
| Self-support | 2,571 | 2,626 | 2,888 | 3,042 | 2,859 | 3,016 | 3,478 | 3,825 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,076 | 2,818 | 3,420 | 4,482 |
| Federal | ne | ne | ne | ne | 346 | 304 | 351 | 601 |
| DOD | ne | ne | ne | ne | 24 | 23 | 22 | 68 |
| DOE | ne | ne | ne | ne | 5 | 8 | 6 | 21 |
| HHS | ne | ne | ne | ne | 56 | 55 | 75 | 120 |
| NIH | ne | ne | ne | ne | 49 | 52 | 71 | 91 |
| Other HHS | ne | ne | ne | ne | 7 | 3 | 4 | 29 |
| NASA | ne | ne | ne | ne | 5 | 4 | 3 | 12 |
| NSF | ne | ne | ne | ne | 134 | 113 | 134 | 195 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| USDA | ne | ne | ne | ne | 13 | 7 | 15 | 21 |
| Other | ne | ne | ne | ne | 109 | 94 | 96 | 164 |
| Institutional | ne | ne | ne | ne | 807 | 1,342 | 1,555 | 1,916 |
| Other nonfederal | ne | ne | ne | ne | 80 | 122 | 134 | 208 |
| Domestic | ne | ne | ne | ne | 71 | 92 | 93 | 170 |
| Foreign | ne | ne | ne | ne | 9 | 30 | 41 | 38 |
| Self-support | ne | ne | ne | ne | 843 | 1,050 | 1,380 | 1,757 |
| Neuroscience[a] | na | na | na | na | 1,529 | 1,908 | 2,261 | 2,682 |
| Federal | na | na | na | na | 844 | 1,045 | 1,200 | 1,340 |
| DOD | na | na | na | na | 9 | 9 | 33 | 44 |
| DOE | na | na | na | na | 0 | 1 | 1 | 1 |
| HHS | na | na | na | na | 785 | 957 | 1,072 | 1,179 |
| NIH | na | na | na | na | 780 | 948 | 1,046 | 1,155 |
| Other HHS | na | na | na | na | 5 | 9 | 26 | 24 |
| NASA | na | na | na | na | 0 | 1 | 0 | 0 |
| NSF | na | na | na | na | 22 | 53 | 75 | 93 |
| USDA | na | na | na | na | 0 | 0 | 1 | 1 |
| Other | na | na | na | na | 28 | 24 | 18 | 22 |
| Institutional | na | na | na | na | 529 | 656 | 838 | 1,039 |
| Other nonfederal | na | na | na | na | 88 | 111 | 139 | 153 |
| Domestic | na | na | na | na | 82 | 102 | 127 | 144 |
| Foreign | na | na | na | na | 6 | 9 | 12 | 9 |
| Self-support | na | na | na | na | 68 | 96 | 84 | 150 |
| Physical sciences | 31,267 | 31,921 | 32,368 | 32,548 | 32,327 | 32,747 | 33,671 | 34,280 |
| Federal | 11,145 | 11,149 | 11,189 | 11,222 | 11,147 | 10,660 | 11,045 | 11,183 |
| DOD | 1,146 | 892 | 906 | 1,002 | 996 | 865 | 904 | 935 |
| DOE | 1,613 | 1,695 | 1,834 | 1,795 | 1,791 | 1,866 | 1,894 | 2,011 |
| HHS | 2,531 | 2,615 | 2,518 | 2,560 | 2,531 | 2,394 | 2,362 | 2,264 |
| NIH | 2,356 | 2,473 | 2,396 | 2,403 | 2,374 | 2,253 | 2,210 | 2,156 |
| Other HHS | 175 | 142 | 122 | 157 | 157 | 141 | 152 | 108 |
| NASA | 556 | 574 | 571 | 583 | 582 | 607 | 573 | 630 |
| NSF | 4,072 | 4,131 | 4,083 | 3,901 | 3,873 | 3,956 | 4,176 | 4,307 |
| USDA | 41 | 39 | 24 | 34 | 33 | 67 | 32 | 28 |
| Other | 1,186 | 1,203 | 1,253 | 1,347 | 1,341 | 905 | 1,104 | 1,008 |
| Institutional | 16,508 | 16,954 | 17,241 | 17,288 | 17,227 | 18,186 | 18,236 | 18,554 |
| Other nonfederal | 2,083 | 2,147 | 2,178 | 2,188 | 2,174 | 1,971 | 2,033 | 1,942 |
| Domestic | 1,985 | 2,054 | 2,067 | 1,999 | 1,985 | 1,736 | 1,771 | 1,680 |
| Foreign | 98 | 93 | 111 | 189 | 189 | 235 | 262 | 262 |
| Self-support | 1,531 | 1,671 | 1,760 | 1,850 | 1,779 | 1,930 | 2,357 | 2,601 |
| Psychology[b] | 32,111 | 32,781 | 32,944 | 34,801 | 34,286 | 35,866 | 34,585 | 33,566 |
| Federal | 3,411 | 3,457 | 3,354 | 3,305 | 3,201 | 2,897 | 2,966 | 3,112 |
| DOD | 135 | 143 | 145 | 130 | 115 | 125 | 138 | 168 |
| DOE | 27 | 30 | 32 | 30 | 30 | 6 | 0 | 1 |
| HHS | 1,849 | 1,845 | 1,732 | 1,690 | 1,641 | 1,594 | 1,584 | 1,592 |
| NIH | 1,647 | 1,703 | 1,599 | 1,545 | 1,501 | 1,390 | 1,378 | 1,427 |
| Other HHS | 202 | 142 | 133 | 145 | 140 | 204 | 206 | 165 |
| NASA | 27 | 7 | 8 | 2 | 3 | 6 | 6 | 5 |
| NSF | 366 | 393 | 415 | 419 | 380 | 361 | 411 | 489 |
| USDA | 20 | 15 | 11 | 6 | 6 | 3 | 6 | 5 |
| Other | 987 | 1,024 | 1,011 | 1,028 | 1,026 | 802 | 821 | 852 |
| Institutional | 12,426 | 12,490 | 12,787 | 13,643 | 13,464 | 13,745 | 13,215 | 12,855 |
| Other nonfederal | 1,331 | 1,358 | 1,505 | 1,512 | 1,450 | 1,215 | 1,170 | 1,143 |
| Domestic | 1,286 | 1,328 | 1,453 | 1,455 | 1,399 | 1,108 | 1,096 | 1,034 |
| Foreign | 45 | 30 | 52 | 57 | 51 | 107 | 74 | 109 |
| Self-support | 14,943 | 15,476 | 15,298 | 16,341 | 16,171 | 18,009 | 17,234 | 16,456 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Social sciences | 58,187 | 59,232 | 61,843 | 63,564 | 62,406 | 64,107 | 67,116 | 67,836 |
| Federal | 3,471 | 3,322 | 3,517 | 3,226 | 3,193 | 3,131 | 3,338 | 3,475 |
| DOD | 132 | 130 | 196 | 124 | 124 | 156 | 182 | 183 |
| DOE | 55 | 34 | 42 | 50 | 50 | 42 | 26 | 44 |
| HHS | 437 | 395 | 375 | 388 | 377 | 381 | 407 | 412 |
| NIH | 317 | 304 | 317 | 320 | 309 | 299 | 318 | 309 |
| Other HHS | 120 | 91 | 58 | 68 | 68 | 82 | 89 | 103 |
| NASA | 90 | 82 | 70 | 64 | 63 | 68 | 80 | 74 |
| NSF | 794 | 870 | 896 | 896 | 882 | 853 | 943 | 904 |
| USDA | 396 | 388 | 335 | 315 | 315 | 335 | 309 | 357 |
| Other | 1,567 | 1,423 | 1,603 | 1,389 | 1,382 | 1,296 | 1,391 | 1,501 |
| Institutional | 28,584 | 29,192 | 30,436 | 31,417 | 30,936 | 32,596 | 32,658 | 32,744 |
| Other nonfederal | 2,691 | 2,482 | 2,570 | 2,588 | 2,540 | 2,315 | 2,159 | 1,979 |
| Domestic | 1,877 | 1,828 | 1,846 | 1,947 | 1,904 | 1,629 | 1,496 | 1,419 |
| Foreign | 814 | 654 | 724 | 641 | 636 | 686 | 663 | 560 |
| Self-support | 23,441 | 24,236 | 25,320 | 26,333 | 25,737 | 26,065 | 28,961 | 29,638 |
| Engineering | 84,616 | 82,241 | 85,134 | 89,834 | 90,911 | 95,077 | 101,495 | 106,434 |
| Federal | 21,190 | 21,165 | 21,251 | 20,907 | 21,074 | 20,701 | 22,825 | 25,155 |
| DOD | 5,299 | 5,326 | 5,331 | 5,269 | 5,312 | 4,764 | 5,218 | 5,432 |
| DOE | 1,757 | 1,914 | 1,934 | 1,757 | 1,764 | 1,836 | 2,064 | 2,694 |
| HHS | 2,133 | 2,254 | 2,481 | 2,619 | 2,626 | 2,782 | 2,951 | 3,330 |
| NIH | 1,907 | 2,068 | 2,346 | 2,464 | 2,471 | 2,649 | 2,763 | 3,101 |
| Other HHS | 226 | 186 | 135 | 155 | 155 | 133 | 188 | 229 |
| NASA | 1,424 | 1,270 | 1,046 | 999 | 1,007 | 1,016 | 1,120 | 999 |
| NSF | 6,747 | 6,838 | 6,907 | 6,628 | 6,724 | 6,838 | 7,625 | 8,368 |
| USDA | 408 | 333 | 332 | 304 | 300 | 299 | 283 | 335 |
| Other | 3,422 | 3,230 | 3,220 | 3,331 | 3,341 | 3,166 | 3,564 | 3,997 |
| Institutional | 30,549 | 29,289 | 30,253 | 32,098 | 32,394 | 34,788 | 34,741 | 34,776 |
| Other nonfederal | 9,780 | 9,710 | 9,709 | 9,371 | 9,472 | 9,530 | 10,089 | 10,065 |
| Domestic | 8,896 | 8,866 | 8,873 | 8,327 | 8,408 | 8,067 | 8,610 | 8,501 |
| Foreign | 884 | 844 | 836 | 1,044 | 1,064 | 1,463 | 1,479 | 1,564 |
| Self-support | 23,097 | 22,077 | 23,921 | 27,458 | 27,971 | 30,058 | 33,840 | 36,438 |
| Aerospace engineering | 3,190 | 3,150 | 3,291 | 3,379 | 3,379 | 3,588 | 3,845 | 4,187 |
| Federal | 1,214 | 1,215 | 1,157 | 1,135 | 1,135 | 1,236 | 1,346 | 1,371 |
| DOD | 537 | 557 | 540 | 482 | 482 | 509 | 588 | 645 |
| DOE | 50 | 42 | 42 | 47 | 47 | 47 | 43 | 63 |
| HHS | 12 | 16 | 17 | 19 | 19 | 12 | 13 | 10 |
| NIH | 10 | 15 | 15 | 15 | 15 | 11 | 13 | 10 |
| Other HHS | 2 | 1 | 2 | 4 | 4 | 1 | 0 | 0 |
| NASA | 423 | 382 | 318 | 336 | 336 | 382 | 434 | 345 |
| NSF | 116 | 135 | 139 | 131 | 131 | 140 | 143 | 183 |
| USDA | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Other | 76 | 82 | 100 | 120 | 120 | 146 | 125 | 125 |
| Institutional | 909 | 946 | 950 | 1,040 | 1,040 | 1,218 | 1,152 | 1,222 |
| Other nonfederal | 364 | 281 | 395 | 479 | 479 | 265 | 334 | 343 |
| Domestic | 298 | 244 | 347 | 382 | 382 | 190 | 253 | 254 |
| Foreign | 66 | 37 | 48 | 97 | 97 | 75 | 81 | 89 |
| Self-support | 703 | 708 | 789 | 725 | 725 | 869 | 1,013 | 1,251 |
| Agricultural engineering | 842 | 855 | 893 | 917 | 917 | 1,022 | 1,084 | 1,198 |
| Federal | 239 | 253 | 268 | 245 | 245 | 279 | 298 | 369 |
| DOD | 9 | 13 | 15 | 8 | 8 | 17 | 33 | 16 |
| DOE | 0 | 6 | 9 | 10 | 10 | 12 | 26 | 27 |
| HHS | 14 | 10 | 7 | 8 | 8 | 10 | 12 | 36 |
| NIH | 3 | 7 | 4 | 8 | 8 | 9 | 9 | 13 |
| Other HHS | 11 | 3 | 3 | 0 | 0 | 1 | 3 | 23 |
| NASA | 14 | 7 | 16 | 9 | 9 | 4 | 5 | 8 |
| NSF | 25 | 25 | 21 | 30 | 30 | 33 | 39 | 56 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| USDA | 136 | 121 | 149 | 113 | 113 | 119 | 116 | 140 |
| Other | 41 | 71 | 51 | 67 | 67 | 84 | 67 | 86 |
| Institutional | 357 | 377 | 400 | 451 | 451 | 492 | 466 | 454 |
| Other nonfederal | 135 | 126 | 106 | 126 | 126 | 129 | 148 | 118 |
| Domestic | 122 | 113 | 97 | 112 | 112 | 96 | 129 | 93 |
| Foreign | 13 | 13 | 9 | 14 | 14 | 33 | 19 | 25 |
| Self-support | 111 | 99 | 119 | 95 | 95 | 122 | 172 | 257 |
| Architecture[a] | na | na | na | na | 3,981 | 5,092 | 5,988 | 5,959 |
| Federal | na | na | na | na | 38 | 41 | 104 | 150 |
| DOD | na | na | na | na | 9 | 5 | 4 | 7 |
| DOE | na | na | na | na | 2 | 5 | 4 | 18 |
| HHS | na | na | na | na | 0 | 3 | 3 | 4 |
| NIH | na | na | na | na | 0 | 2 | 2 | 4 |
| Other HHS | na | na | na | na | 0 | 1 | 1 | 0 |
| NASA | na | na | na | na | 0 | 0 | 0 | 0 |
| NSF | na | na | na | na | 6 | 7 | 12 | 18 |
| USDA | na | na | na | na | 1 | 3 | 1 | 1 |
| Other | na | na | na | na | 20 | 18 | 80 | 102 |
| Institutional | na | na | na | na | 1,545 | 1,955 | 1,957 | 2,107 |
| Other nonfederal | na | na | na | na | 173 | 163 | 301 | 222 |
| Domestic | na | na | na | na | 150 | 134 | 265 | 181 |
| Foreign | na | na | na | na | 23 | 29 | 36 | 41 |
| Self-support | na | na | na | na | 2,225 | 2,933 | 3,626 | 3,480 |
| Biomedical engineering | 5,015 | 5,232 | 5,641 | 5,885 | 5,908 | 6,260 | 6,840 | 7,375 |
| Federal | 1,527 | 1,639 | 1,807 | 2,089 | 2,100 | 2,230 | 2,447 | 2,709 |
| DOD | 88 | 87 | 99 | 93 | 93 | 122 | 157 | 152 |
| DOE | 9 | 18 | 25 | 26 | 26 | 42 | 50 | 49 |
| HHS | 1,002 | 1,137 | 1,245 | 1,412 | 1,423 | 1,542 | 1,618 | 1,803 |
| NIH | 991 | 1,122 | 1,234 | 1,389 | 1,400 | 1,500 | 1,589 | 1,767 |
| Other HHS | 11 | 15 | 11 | 23 | 23 | 42 | 29 | 36 |
| NASA | 42 | 32 | 10 | 15 | 15 | 14 | 15 | 24 |
| NSF | 248 | 252 | 280 | 306 | 306 | 352 | 417 | 508 |
| USDA | 6 | 5 | 5 | 6 | 6 | 5 | 6 | 16 |
| Other | 132 | 108 | 143 | 231 | 231 | 153 | 184 | 157 |
| Institutional | 1,550 | 1,649 | 1,828 | 1,933 | 1,945 | 2,175 | 2,270 | 2,354 |
| Other nonfederal | 719 | 676 | 636 | 527 | 527 | 633 | 688 | 693 |
| Domestic | 690 | 645 | 621 | 509 | 509 | 572 | 620 | 615 |
| Foreign | 29 | 31 | 15 | 18 | 18 | 61 | 68 | 78 |
| Self-support | 1,219 | 1,268 | 1,370 | 1,336 | 1,336 | 1,222 | 1,435 | 1,619 |
| Chemical engineering | 6,346 | 6,110 | 6,185 | 6,249 | 6,433 | 6,722 | 7,058 | 7,472 |
| Federal | 2,146 | 2,097 | 2,104 | 1,985 | 2,039 | 2,044 | 2,121 | 2,439 |
| DOD | 218 | 204 | 179 | 164 | 173 | 162 | 187 | 215 |
| DOE | 352 | 365 | 371 | 352 | 353 | 374 | 373 | 440 |
| HHS | 298 | 274 | 328 | 282 | 294 | 302 | 304 | 366 |
| NIH | 262 | 236 | 298 | 248 | 260 | 267 | 263 | 343 |
| Other HHS | 36 | 38 | 30 | 34 | 34 | 35 | 41 | 23 |
| NASA | 95 | 90 | 67 | 52 | 52 | 30 | 31 | 35 |
| NSF | 873 | 851 | 816 | 814 | 848 | 860 | 913 | 1,089 |
| USDA | 46 | 46 | 61 | 62 | 62 | 60 | 54 | 48 |
| Other | 264 | 267 | 282 | 259 | 257 | 256 | 259 | 246 |
| Institutional | 2,463 | 2,338 | 2,336 | 2,501 | 2,586 | 2,759 | 2,907 | 2,735 |
| Other nonfederal | 957 | 906 | 988 | 970 | 1,021 | 1,007 | 1,038 | 1,042 |
| Domestic | 902 | 864 | 927 | 811 | 859 | 861 | 885 | 909 |
| Foreign | 55 | 42 | 61 | 159 | 162 | 146 | 153 | 133 |
| Self-support | 780 | 769 | 757 | 793 | 787 | 912 | 992 | 1,256 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Civil engineering[a] | 13,348 | 12,958 | 12,836 | 14,352 | 11,063 | 11,619 | 13,120 | 13,719 |
| Federal | 2,150 | 1,997 | 1,870 | 1,888 | 1,869 | 1,726 | 1,978 | 2,216 |
| DOD | 169 | 180 | 143 | 205 | 200 | 189 | 193 | 179 |
| DOE | 90 | 92 | 64 | 73 | 71 | 73 | 108 | 146 |
| HHS | 59 | 60 | 56 | 47 | 47 | 38 | 53 | 48 |
| NIH | 33 | 32 | 30 | 39 | 39 | 33 | 34 | 35 |
| Other HHS | 26 | 28 | 26 | 8 | 8 | 5 | 19 | 13 |
| NASA | 59 | 68 | 57 | 59 | 65 | 75 | 98 | 107 |
| NSF | 702 | 652 | 658 | 653 | 649 | 545 | 637 | 758 |
| USDA | 73 | 64 | 40 | 52 | 47 | 45 | 44 | 55 |
| Other | 998 | 881 | 852 | 799 | 790 | 761 | 845 | 923 |
| Institutional | 5,672 | 5,303 | 5,345 | 6,008 | 4,707 | 5,257 | 5,458 | 5,475 |
| Other nonfederal | 1,239 | 1,165 | 1,173 | 1,145 | 1,003 | 1,012 | 1,024 | 1,081 |
| Domestic | 1,107 | 1,054 | 1,079 | 1,024 | 897 | 837 | 863 | 892 |
| Foreign | 132 | 111 | 94 | 121 | 106 | 175 | 161 | 189 |
| Self-support | 4,287 | 4,493 | 4,448 | 5,311 | 3,484 | 3,624 | 4,660 | 4,947 |
| Electrical engineering | 25,783 | 25,002 | 26,259 | 27,522 | 27,646 | 27,813 | 27,792 | 28,605 |
| Federal | 5,964 | 6,021 | 5,975 | 5,809 | 5,866 | 5,888 | 6,248 | 6,557 |
| DOD | 1,966 | 1,946 | 1,937 | 1,906 | 1,923 | 1,969 | 2,046 | 2,088 |
| DOE | 211 | 236 | 244 | 213 | 212 | 186 | 226 | 320 |
| HHS | 351 | 360 | 421 | 402 | 402 | 418 | 429 | 431 |
| NIH | 291 | 314 | 394 | 378 | 379 | 394 | 397 | 396 |
| Other HHS | 60 | 46 | 27 | 24 | 23 | 24 | 32 | 35 |
| NASA | 333 | 242 | 215 | 215 | 215 | 203 | 204 | 178 |
| NSF | 2,336 | 2,488 | 2,481 | 2,347 | 2,389 | 2,492 | 2,707 | 2,810 |
| USDA | 54 | 23 | 21 | 22 | 20 | 14 | 11 | 17 |
| Other | 713 | 726 | 656 | 704 | 705 | 606 | 625 | 713 |
| Institutional | 8,438 | 8,221 | 8,485 | 8,826 | 8,841 | 8,887 | 8,591 | 8,104 |
| Other nonfederal | 2,776 | 3,038 | 2,634 | 2,539 | 2,571 | 2,508 | 2,483 | 2,475 |
| Domestic | 2,612 | 2,784 | 2,434 | 2,367 | 2,395 | 2,234 | 2,223 | 2,219 |
| Foreign | 164 | 254 | 200 | 172 | 176 | 274 | 260 | 256 |
| Self-support | 8,605 | 7,722 | 9,165 | 10,348 | 10,368 | 10,530 | 10,470 | 11,469 |
| Engineering science | 1,712 | 1,589 | 1,639 | 1,437 | 1,402 | 1,444 | 1,450 | 1,478 |
| Federal | 556 | 593 | 581 | 434 | 424 | 453 | 471 | 460 |
| DOD | 166 | 164 | 126 | 96 | 96 | 95 | 95 | 81 |
| DOE | 65 | 78 | 100 | 77 | 77 | 84 | 109 | 98 |
| HHS | 42 | 55 | 58 | 48 | 48 | 51 | 33 | 44 |
| NIH | 37 | 46 | 56 | 44 | 44 | 51 | 30 | 44 |
| Other HHS | 5 | 9 | 2 | 4 | 4 | 0 | 3 | 0 |
| NASA | 22 | 20 | 24 | 13 | 13 | 15 | 19 | 19 |
| NSF | 207 | 234 | 230 | 166 | 155 | 167 | 178 | 164 |
| USDA | 14 | 1 | 1 | 3 | 3 | 5 | 2 | 2 |
| Other | 40 | 41 | 42 | 31 | 32 | 36 | 35 | 52 |
| Institutional | 753 | 634 | 617 | 615 | 590 | 542 | 548 | 541 |
| Other nonfederal | 176 | 177 | 175 | 103 | 104 | 109 | 125 | 156 |
| Domestic | 157 | 159 | 158 | 95 | 96 | 85 | 105 | 134 |
| Foreign | 19 | 18 | 17 | 8 | 8 | 24 | 20 | 22 |
| Self-support | 227 | 185 | 266 | 285 | 284 | 340 | 306 | 321 |
| Industrial engineering | 6,352 | 5,822 | 6,171 | 6,727 | 7,109 | 7,852 | 7,878 | 7,829 |
| Federal | 957 | 934 | 887 | 769 | 820 | 871 | 996 | 1,166 |
| DOD | 299 | 336 | 316 | 249 | 268 | 250 | 326 | 377 |
| DOE | 45 | 46 | 46 | 32 | 34 | 73 | 55 | 81 |
| HHS | 66 | 68 | 65 | 81 | 81 | 78 | 103 | 123 |
| NIH | 43 | 56 | 54 | 53 | 52 | 68 | 80 | 97 |
| Other HHS | 23 | 12 | 11 | 28 | 29 | 10 | 23 | 26 |
| NASA | 42 | 48 | 20 | 23 | 28 | 23 | 29 | 28 |
| NSF | 328 | 285 | 278 | 249 | 275 | 289 | 309 | 320 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| USDA | 12 | 9 | 9 | 8 | 8 | 7 | 11 | 6 |
| Other | 165 | 142 | 153 | 127 | 126 | 151 | 163 | 231 |
| Institutional | 2,284 | 2,084 | 2,255 | 2,221 | 2,268 | 2,567 | 2,335 | 2,210 |
| Other nonfederal | 592 | 553 | 536 | 506 | 572 | 672 | 647 | 646 |
| Domestic | 512 | 495 | 465 | 407 | 434 | 561 | 518 | 506 |
| Foreign | 80 | 58 | 71 | 99 | 138 | 111 | 129 | 140 |
| Self-support | 2,519 | 2,251 | 2,493 | 3,231 | 3,449 | 3,742 | 3,900 | 3,807 |
| Mechanical engineering | 12,478 | 11,984 | 12,408 | 12,913 | 12,903 | 13,456 | 15,215 | 16,257 |
| Federal | 3,157 | 3,092 | 3,228 | 3,179 | 3,175 | 3,167 | 3,619 | 4,112 |
| DOD | 730 | 700 | 777 | 849 | 847 | 852 | 965 | 979 |
| DOE | 360 | 342 | 391 | 331 | 331 | 371 | 386 | 585 |
| HHS | 179 | 186 | 187 | 190 | 190 | 193 | 221 | 262 |
| NIH | 154 | 159 | 171 | 168 | 168 | 183 | 199 | 232 |
| Other HHS | 25 | 27 | 16 | 22 | 22 | 10 | 22 | 30 |
| NASA | 282 | 258 | 217 | 189 | 189 | 193 | 213 | 212 |
| NSF | 1,036 | 1,053 | 1,091 | 1,076 | 1,074 | 1,068 | 1,255 | 1,365 |
| USDA | 22 | 19 | 11 | 17 | 17 | 15 | 16 | 22 |
| Other | 548 | 534 | 554 | 527 | 527 | 475 | 563 | 687 |
| Institutional | 4,918 | 4,614 | 4,816 | 4,995 | 4,999 | 5,215 | 5,539 | 5,772 |
| Other nonfederal | 1,474 | 1,383 | 1,515 | 1,471 | 1,459 | 1,479 | 1,706 | 1,725 |
| Domestic | 1,322 | 1,255 | 1,361 | 1,314 | 1,303 | 1,197 | 1,435 | 1,403 |
| Foreign | 152 | 128 | 154 | 157 | 156 | 282 | 271 | 322 |
| Self-support | 2,929 | 2,895 | 2,849 | 3,268 | 3,270 | 3,595 | 4,351 | 4,648 |
| Metallurgical/materials engineering | 4,338 | 4,491 | 4,606 | 4,647 | 4,593 | 4,784 | 5,166 | 5,519 |
| Federal | 1,590 | 1,587 | 1,628 | 1,601 | 1,618 | 1,690 | 2,020 | 2,111 |
| DOD | 376 | 364 | 369 | 401 | 404 | 388 | 398 | 430 |
| DOE | 270 | 319 | 318 | 254 | 261 | 287 | 346 | 433 |
| HHS | 50 | 36 | 58 | 64 | 58 | 75 | 85 | 105 |
| NIH | 43 | 31 | 57 | 62 | 56 | 75 | 82 | 88 |
| Other HHS | 7 | 5 | 1 | 2 | 2 | 0 | 3 | 17 |
| NASA | 52 | 58 | 52 | 30 | 30 | 33 | 32 | 20 |
| NSF | 657 | 639 | 661 | 606 | 615 | 645 | 768 | 809 |
| USDA | 4 | 7 | 6 | 5 | 5 | 11 | 16 | 12 |
| Other | 181 | 164 | 164 | 241 | 245 | 251 | 375 | 302 |
| Institutional | 1,511 | 1,604 | 1,581 | 1,675 | 1,621 | 1,695 | 1,646 | 1,688 |
| Other nonfederal | 730 | 775 | 815 | 793 | 768 | 761 | 622 | 679 |
| Domestic | 657 | 705 | 755 | 708 | 685 | 633 | 497 | 584 |
| Foreign | 73 | 70 | 60 | 85 | 83 | 128 | 125 | 95 |
| Self-support | 507 | 525 | 582 | 578 | 586 | 638 | 878 | 1,041 |
| Mining engineering | 229 | 200 | 177 | 199 | 132 | 201 | 205 | 353 |
| Federal | 49 | 36 | 28 | 37 | 26 | 23 | 31 | 60 |
| DOD | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 |
| DOE | 18 | 17 | 14 | 10 | 10 | 12 | 6 | 16 |
| HHS | 13 | 1 | 1 | 5 | 7 | 4 | 14 | 23 |
| NIH | 1 | 0 | 1 | 3 | 5 | 3 | 10 | 14 |
| Other HHS | 12 | 1 | 0 | 2 | 2 | 1 | 4 | 9 |
| NASA | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| NSF | 7 | 4 | 2 | 5 | 0 | 1 | 4 | 5 |
| USDA | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Other | 9 | 10 | 9 | 14 | 9 | 6 | 7 | 15 |
| Institutional | 105 | 102 | 87 | 83 | 67 | 70 | 60 | 164 |
| Other nonfederal | 18 | 15 | 12 | 23 | 20 | 68 | 72 | 24 |
| Domestic | 16 | 13 | 11 | 23 | 20 | 68 | 72 | 24 |
| Foreign | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Self-support | 57 | 47 | 50 | 56 | 19 | 40 | 42 | 105 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Nuclear engineering | 809 | 840 | 910 | 960 | 951 | 941 | 968 | 1,123 |
| Federal | 336 | 368 | 338 | 328 | 326 | 335 | 403 | 503 |
| DOD | 48 | 48 | 48 | 35 | 35 | 46 | 60 | 83 |
| DOE | 197 | 231 | 208 | 212 | 212 | 182 | 208 | 242 |
| HHS | 12 | 12 | 8 | 11 | 9 | 9 | 10 | 7 |
| NIH | 6 | 12 | 8 | 10 | 8 | 9 | 10 | 7 |
| Other HHS | 6 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| NASA | 13 | 10 | 9 | 16 | 16 | 7 | 10 | 6 |
| NSF | 7 | 10 | 5 | 19 | 19 | 17 | 18 | 24 |
| USDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 59 | 57 | 60 | 35 | 35 | 74 | 97 | 141 |
| Institutional | 272 | 234 | 337 | 376 | 370 | 345 | 268 | 320 |
| Other nonfederal | 102 | 112 | 102 | 113 | 113 | 127 | 164 | 151 |
| Domestic | 99 | 100 | 89 | 101 | 101 | 100 | 153 | 144 |
| Foreign | 3 | 12 | 13 | 12 | 12 | 27 | 11 | 7 |
| Self-support | 99 | 126 | 133 | 143 | 142 | 134 | 133 | 149 |
| Petroleum engineering | 658 | 629 | 642 | 786 | 786 | 822 | 988 | 1,058 |
| Federal | 58 | 97 | 64 | 100 | 100 | 28 | 37 | 68 |
| DOD | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| DOE | 47 | 86 | 51 | 73 | 73 | 15 | 28 | 61 |
| HHS | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| NIH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other HHS | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| NASA | 0 | 2 | 0 | 7 | 7 | 0 | 0 | 0 |
| NSF | 3 | 4 | 5 | 9 | 9 | 3 | 2 | 2 |
| USDA | 1 | 3 | 1 | 0 | 0 | 1 | 1 | 1 |
| Other | 4 | 2 | 6 | 10 | 10 | 9 | 6 | 4 |
| Institutional | 302 | 178 | 203 | 247 | 247 | 258 | 312 | 304 |
| Other nonfederal | 142 | 224 | 248 | 275 | 275 | 349 | 423 | 420 |
| Domestic | 78 | 185 | 192 | 215 | 215 | 282 | 320 | 294 |
| Foreign | 64 | 39 | 56 | 60 | 60 | 67 | 103 | 126 |
| Self-support | 156 | 130 | 127 | 164 | 164 | 187 | 216 | 266 |
| Engineering, nec | 3,516 | 3,379 | 3,476 | 3,861 | 3,708 | 3,461 | 3,898 | 4,302 |
| Federal | 1,247 | 1,236 | 1,316 | 1,308 | 1,293 | 690 | 706 | 864 |
| DOD | 691 | 726 | 780 | 778 | 774 | 160 | 166 | 180 |
| DOE | 43 | 36 | 51 | 47 | 45 | 73 | 96 | 115 |
| HHS | 34 | 39 | 30 | 49 | 39 | 47 | 53 | 68 |
| NIH | 33 | 38 | 24 | 47 | 37 | 44 | 45 | 51 |
| Other HHS | 1 | 1 | 6 | 2 | 2 | 3 | 8 | 17 |
| NASA | 47 | 51 | 41 | 35 | 32 | 37 | 30 | 16 |
| NSF | 202 | 206 | 240 | 217 | 218 | 219 | 223 | 257 |
| USDA | 38 | 33 | 26 | 16 | 18 | 14 | 5 | 15 |
| Other | 192 | 145 | 148 | 166 | 167 | 140 | 133 | 213 |
| Institutional | 1,015 | 1,005 | 1,013 | 1,127 | 1,117 | 1,353 | 1,232 | 1,326 |
| Other nonfederal | 356 | 279 | 374 | 301 | 261 | 248 | 314 | 290 |
| Domestic | 324 | 250 | 337 | 259 | 250 | 217 | 272 | 249 |
| Foreign | 32 | 29 | 37 | 42 | 11 | 31 | 42 | 41 |
| Self-support | 898 | 859 | 773 | 1,125 | 1,037 | 1,170 | 1,646 | 1,822 |
| Health[a,b] | 55,329 | 57,827 | 61,756 | 61,292 | 59,288 | 59,943 | 52,287 | 46,868 |
| Federal | 9,161 | 8,628 | 9,209 | 8,476 | 7,643 | 6,520 | 5,516 | 5,718 |
| DOD | 328 | 347 | 361 | 334 | 323 | 316 | 238 | 274 |
| DOE | 16 | 16 | 27 | 36 | 34 | 24 | 14 | 24 |
| HHS | 6,963 | 6,608 | 6,697 | 6,231 | 5,443 | 4,407 | 3,956 | 4,171 |
| NIH | 4,298 | 4,067 | 4,257 | 4,283 | 3,493 | 3,084 | 2,933 | 3,172 |
| Other HHS | 2,665 | 2,541 | 2,440 | 1,948 | 1,950 | 1,323 | 1,023 | 999 |
| NASA | 25 | 20 | 14 | 8 | 7 | 8 | 3 | 93 |
| NSF | 169 | 208 | 283 | 222 | 198 | 206 | 169 | 193 |

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| USDA | 84 | 87 | 98 | 75 | 89 | 68 | 81 | 100 |
| Other | 1,576 | 1,342 | 1,729 | 1,570 | 1,549 | 1,491 | 1,055 | 863 |
| Institutional | 12,111 | 13,113 | 13,787 | 15,325 | 14,758 | 14,214 | 12,778 | 12,038 |
| Other nonfederal | 2,565 | 2,614 | 3,042 | 2,900 | 2,800 | 2,277 | 2,439 | 2,098 |
| Domestic | 2,321 | 2,423 | 2,861 | 2,653 | 2,558 | 2,029 | 2,147 | 1,755 |
| Foreign | 244 | 191 | 181 | 247 | 242 | 248 | 292 | 343 |
| Self-support | 31,492 | 33,472 | 35,718 | 34,591 | 34,087 | 36,932 | 31,554 | 27,014 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

| Field and primary mechanism of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 377,984 | 381,198 | 393,138 | 403,722 | 409,421 | 422,287 | 428,856 | 433,252 |
| Fellowships | 34,672 | 36,026 | 36,332 | 37,862 | 38,149 | 38,363 | 38,769 | 39,719 |
| Research assistantships | 112,826 | 112,367 | 112,825 | 113,253 | 114,067 | 116,310 | 119,393 | 121,525 |
| Teaching assistantships | 71,286 | 72,479 | 74,204 | 76,038 | 78,080 | 81,399 | 80,028 | 81,154 |
| Traineeships | 14,403 | 14,217 | 14,277 | 13,123 | 13,180 | 12,975 | 12,693 | 12,263 |
| Other types of support | 144,797 | 146,109 | 155,500 | 163,446 | 165,945 | 173,240 | 177,973 | 178,591 |
| Self-support | 119,485 | 121,226 | 127,741 | 134,541 | 136,738 | 145,620 | 149,613 | 150,312 |
| Other | 25,312 | 24,883 | 27,759 | 28,905 | 29,207 | 27,620 | 28,360 | 28,279 |
| Science and engineering | 322,655 | 323,371 | 331,382 | 342,430 | 350,133 | 362,344 | 376,569 | 386,384 |
| Fellowships | 31,879 | 33,231 | 33,345 | 34,430 | 35,158 | 35,625 | 36,158 | 37,260 |
| Research assistantships | 105,791 | 105,136 | 105,604 | 106,018 | 107,360 | 109,825 | 112,936 | 115,028 |
| Teaching assistantships | 67,569 | 68,588 | 70,003 | 71,459 | 73,762 | 77,384 | 76,589 | 77,631 |
| Traineeships | 9,820 | 9,873 | 9,724 | 9,249 | 9,558 | 9,882 | 9,930 | 9,790 |
| Other types of support | 107,596 | 106,543 | 112,706 | 121,274 | 124,295 | 129,628 | 140,956 | 146,675 |
| Self-support | 87,993 | 87,754 | 92,023 | 99,950 | 102,651 | 108,688 | 118,059 | 123,298 |
| Other | 19,603 | 18,789 | 20,683 | 21,324 | 21,644 | 20,940 | 22,897 | 23,377 |
| Science | 238,039 | 241,130 | 246,248 | 252,596 | 259,222 | 267,267 | 275,074 | 279,950 |
| Fellowships | 24,710 | 26,013 | 26,194 | 26,612 | 27,290 | 27,651 | 28,013 | 28,508 |
| Research assistantships | 70,093 | 70,503 | 70,556 | 71,015 | 72,020 | 72,654 | 73,186 | 73,986 |
| Teaching assistantships | 55,572 | 56,844 | 57,960 | 59,063 | 61,252 | 64,103 | 63,655 | 64,407 |
| Traineeships | 8,879 | 8,856 | 8,732 | 8,328 | 8,637 | 9,003 | 9,041 | 8,927 |
| Other types of support | 78,785 | 78,914 | 82,806 | 87,578 | 90,023 | 93,856 | 101,179 | 104,122 |
| Self-support | 64,896 | 65,677 | 68,102 | 72,492 | 74,680 | 78,630 | 84,219 | 86,860 |
| Other | 13,889 | 13,237 | 14,704 | 15,086 | 15,343 | 15,226 | 16,960 | 17,262 |
| Agricultural sciences | 9,509 | 9,185 | 8,977 | 9,103 | 9,276 | 9,564 | 10,246 | 10,505 |
| Fellowships | 599 | 656 | 555 | 654 | 678 | 691 | 719 | 712 |
| Research assistantships | 5,779 | 5,473 | 5,319 | 5,383 | 5,544 | 5,528 | 5,492 | 5,633 |
| Teaching assistantships | 1,154 | 1,148 | 1,163 | 1,172 | 1,188 | 1,295 | 1,353 | 1,415 |
| Traineeships | 68 | 20 | 50 | 33 | 33 | 25 | 31 | 43 |
| Other types of support | 1,909 | 1,888 | 1,890 | 1,861 | 1,833 | 2,025 | 2,651 | 2,702 |
| Self-support | 1,516 | 1,523 | 1,439 | 1,474 | 1,425 | 1,579 | 2,147 | 2,218 |
| Other | 393 | 365 | 451 | 387 | 408 | 446 | 504 | 484 |
| Biological sciences | 54,139 | 55,836 | 57,082 | 58,011 | 58,327 | 58,501 | 59,235 | 60,028 |
| Fellowships | 6,580 | 7,053 | 6,760 | 6,618 | 6,651 | 6,743 | 6,497 | 6,735 |
| Research assistantships | 23,674 | 24,349 | 24,783 | 24,682 | 24,448 | 23,890 | 23,735 | 24,149 |
| Teaching assistantships | 8,457 | 8,712 | 9,022 | 9,349 | 9,359 | 9,215 | 9,231 | 9,248 |
| Traineeships | 5,611 | 5,710 | 5,510 | 5,581 | 5,615 | 5,889 | 5,890 | 5,562 |
| Other types of support | 9,817 | 10,012 | 11,007 | 11,781 | 12,254 | 12,764 | 13,882 | 14,334 |
| Self-support | 7,013 | 7,170 | 7,650 | 8,535 | 9,046 | 9,595 | 10,134 | 10,704 |
| Other | 2,804 | 2,842 | 3,357 | 3,246 | 3,208 | 3,169 | 3,748 | 3,630 |
| Communication[a] | ne | ne | ne | ne | 4,049 | 4,642 | 5,429 | 5,588 |
| Fellowships | ne | ne | ne | ne | 170 | 216 | 292 | 280 |
| Research assistantships | ne | ne | ne | ne | 549 | 588 | 582 | 485 |
| Teaching assistantships | ne | ne | ne | ne | 1,698 | 2,034 | 2,111 | 2,247 |
| Traineeships | ne | ne | ne | ne | 25 | 12 | 19 | 27 |
| Other types of support | ne | ne | ne | ne | 1,607 | 1,792 | 2,425 | 2,549 |
| Self-support | ne | ne | ne | ne | 1,421 | 1,523 | 2,088 | 2,266 |
| Other | ne | ne | ne | ne | 186 | 269 | 337 | 283 |
| Computer sciences | 27,204 | 26,524 | 26,937 | 28,285 | 27,874 | 28,850 | 29,669 | 30,080 |
| Fellowships | 1,378 | 1,449 | 1,463 | 1,472 | 1,456 | 1,672 | 1,882 | 1,501 |
| Research assistantships | 7,068 | 7,053 | 7,084 | 7,155 | 6,921 | 7,225 | 7,454 | 7,760 |
| Teaching assistantships | 4,615 | 4,506 | 4,374 | 4,484 | 4,446 | 4,696 | 4,563 | 4,446 |
| Traineeships | 285 | 230 | 181 | 157 | 157 | 148 | 167 | 188 |

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

| Field and primary mechanism of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Other types of support | 13,858 | 13,286 | 13,835 | 15,017 | 14,894 | 15,109 | 15,603 | 16,185 |
| Self-support | 11,832 | 11,036 | 11,776 | 12,915 | 12,806 | 13,191 | 13,429 | 14,007 |
| Other | 2,026 | 2,250 | 2,059 | 2,102 | 2,088 | 1,918 | 2,174 | 2,178 |
| Earth, atmospheric, and ocean sciences | 11,265 | 10,999 | 11,102 | 10,973 | 10,570 | 10,874 | 11,211 | 11,868 |
| Fellowships | 1,222 | 1,355 | 1,300 | 1,267 | 1,179 | 1,275 | 1,259 | 1,293 |
| Research assistantships | 4,713 | 4,655 | 4,664 | 4,601 | 4,409 | 4,487 | 4,628 | 4,878 |
| Teaching assistantships | 2,590 | 2,560 | 2,704 | 2,625 | 2,568 | 2,728 | 2,674 | 2,696 |
| Traineeships | 119 | 111 | 106 | 70 | 74 | 79 | 67 | 77 |
| Other types of support | 2,621 | 2,318 | 2,328 | 2,410 | 2,340 | 2,305 | 2,583 | 2,924 |
| Self-support | 2,049 | 1,939 | 1,971 | 2,002 | 1,948 | 1,974 | 2,168 | 2,430 |
| Other | 572 | 379 | 357 | 408 | 392 | 331 | 415 | 494 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 1,489 | 1,754 | 1,903 | 2,118 |
| Fellowships | ne | ne | ne | ne | 90 | 117 | 133 | 143 |
| Research assistantships | ne | ne | ne | ne | 334 | 385 | 434 | 407 |
| Teaching assistantships | ne | ne | ne | ne | 429 | 517 | 464 | 585 |
| Traineeships | ne | ne | ne | ne | 9 | 0 | 1 | 15 |
| Other types of support | ne | ne | ne | ne | 627 | 735 | 871 | 968 |
| Self-support | ne | ne | ne | ne | 577 | 602 | 759 | 808 |
| Other | ne | ne | ne | ne | 50 | 133 | 112 | 160 |
| Mathematical sciences | 14,357 | 14,652 | 14,995 | 15,311 | 15,013 | 15,636 | 16,328 | 16,917 |
| Fellowships | 1,333 | 1,414 | 1,529 | 1,550 | 1,541 | 1,573 | 1,708 | 1,720 |
| Research assistantships | 1,869 | 1,847 | 1,765 | 1,841 | 1,784 | 1,821 | 1,931 | 1,981 |
| Teaching assistantships | 7,874 | 8,041 | 8,064 | 8,226 | 8,178 | 8,547 | 8,494 | 8,643 |
| Traineeships | 105 | 95 | 98 | 125 | 128 | 156 | 139 | 176 |
| Other types of support | 3,176 | 3,255 | 3,539 | 3,569 | 3,382 | 3,539 | 4,056 | 4,397 |
| Self-support | 2,571 | 2,626 | 2,888 | 3,042 | 2,859 | 3,016 | 3,478 | 3,825 |
| Other | 605 | 629 | 651 | 527 | 523 | 523 | 578 | 572 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 2,076 | 2,818 | 3,420 | 4,482 |
| Fellowships | ne | ne | ne | ne | 261 | 531 | 626 | 850 |
| Research assistantships | ne | ne | ne | ne | 514 | 527 | 615 | 830 |
| Teaching assistantships | ne | ne | ne | ne | 280 | 406 | 483 | 674 |
| Traineeships | ne | ne | ne | ne | 39 | 46 | 45 | 56 |
| Other types of support | ne | ne | ne | ne | 982 | 1,308 | 1,651 | 2,072 |
| Self-support | ne | ne | ne | ne | 843 | 1,050 | 1,380 | 1,757 |
| Other | ne | ne | ne | ne | 139 | 258 | 271 | 315 |
| Neuroscience[a] | na | na | na | na | 1,529 | 1,908 | 2,261 | 2,682 |
| Fellowships | na | na | na | na | 372 | 381 | 462 | 655 |
| Research assistantships | na | na | na | na | 634 | 832 | 955 | 997 |
| Teaching assistantships | na | na | na | na | 199 | 177 | 198 | 214 |
| Traineeships | na | na | na | na | 211 | 349 | 426 | 506 |
| Other types of support | na | na | na | na | 113 | 169 | 220 | 310 |
| Self-support | na | na | na | na | 68 | 96 | 84 | 150 |
| Other | na | na | na | na | 45 | 73 | 136 | 160 |
| Physical sciences | 31,267 | 31,921 | 32,368 | 32,548 | 32,327 | 32,747 | 33,671 | 34,280 |
| Fellowships | 2,707 | 2,760 | 3,073 | 3,119 | 3,106 | 2,862 | 2,895 | 3,314 |
| Research assistantships | 13,610 | 13,921 | 13,809 | 13,795 | 13,676 | 13,961 | 14,354 | 14,217 |
| Teaching assistantships | 12,108 | 12,455 | 12,449 | 12,489 | 12,474 | 12,939 | 12,788 | 12,951 |
| Traineeships | 366 | 420 | 436 | 417 | 415 | 390 | 432 | 395 |
| Other types of support | 2,476 | 2,365 | 2,601 | 2,728 | 2,656 | 2,595 | 3,202 | 3,403 |
| Self-support | 1,531 | 1,671 | 1,760 | 1,850 | 1,779 | 1,930 | 2,357 | 2,601 |
| Other | 945 | 694 | 841 | 878 | 877 | 665 | 845 | 802 |
| Psychology[b] | 32,111 | 32,781 | 32,944 | 34,801 | 34,286 | 35,866 | 34,585 | 33,566 |
| Fellowships | 2,317 | 2,443 | 2,543 | 2,307 | 2,252 | 2,130 | 2,027 | 2,062 |
| Research assistantships | 5,540 | 5,363 | 5,284 | 5,592 | 5,424 | 5,646 | 5,251 | 5,144 |
| Teaching assistantships | 5,658 | 5,944 | 6,259 | 6,276 | 6,171 | 6,381 | 6,348 | 6,236 |

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

| Field and primary mechanism of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Traineeships | 876 | 1,035 | 1,032 | 929 | 920 | 913 | 1,042 | 1,004 |
| Other types of support | 17,720 | 17,996 | 17,826 | 19,697 | 19,519 | 20,796 | 19,917 | 19,120 |
| Self-support | 14,943 | 15,476 | 15,298 | 16,341 | 16,171 | 18,009 | 17,234 | 16,456 |
| Other | 2,777 | 2,520 | 2,528 | 3,356 | 3,348 | 2,787 | 2,683 | 2,664 |
| Social sciences | 58,187 | 59,232 | 61,843 | 63,564 | 62,406 | 64,107 | 67,116 | 67,836 |
| Fellowships | 8,574 | 8,883 | 8,971 | 9,625 | 9,534 | 9,460 | 9,513 | 9,243 |
| Research assistantships | 7,840 | 7,842 | 7,848 | 7,966 | 7,783 | 7,764 | 7,755 | 7,505 |
| Teaching assistantships | 13,116 | 13,478 | 13,925 | 14,442 | 14,262 | 15,168 | 14,948 | 15,052 |
| Traineeships | 1,449 | 1,235 | 1,319 | 1,016 | 1,011 | 996 | 782 | 878 |
| Other types of support | 27,208 | 27,794 | 29,780 | 30,515 | 29,816 | 30,719 | 34,118 | 35,158 |
| Self-support | 23,441 | 24,236 | 25,320 | 26,333 | 25,737 | 26,065 | 28,961 | 29,638 |
| Other | 3,767 | 3,558 | 4,460 | 4,182 | 4,079 | 4,654 | 5,157 | 5,520 |
| Engineering | 84,616 | 82,241 | 85,134 | 89,834 | 90,911 | 95,077 | 101,495 | 106,434 |
| Fellowships | 7,169 | 7,218 | 7,151 | 7,818 | 7,868 | 7,974 | 8,145 | 8,752 |
| Research assistantships | 35,698 | 34,633 | 35,048 | 35,003 | 35,340 | 37,171 | 39,750 | 41,042 |
| Teaching assistantships | 11,997 | 11,744 | 12,043 | 12,396 | 12,510 | 13,281 | 12,934 | 13,224 |
| Traineeships | 941 | 1,017 | 992 | 921 | 921 | 879 | 889 | 863 |
| Other types of support | 28,811 | 27,629 | 29,900 | 33,696 | 34,272 | 35,772 | 39,777 | 42,553 |
| Self-support | 23,097 | 22,077 | 23,921 | 27,458 | 27,971 | 30,058 | 33,840 | 36,438 |
| Other | 5,714 | 5,552 | 5,979 | 6,238 | 6,301 | 5,714 | 5,937 | 6,115 |
| Aerospace engineering | 3,190 | 3,150 | 3,291 | 3,379 | 3,379 | 3,588 | 3,845 | 4,187 |
| Fellowships | 282 | 260 | 302 | 386 | 386 | 334 | 319 | 363 |
| Research assistantships | 1,451 | 1,366 | 1,387 | 1,478 | 1,478 | 1,566 | 1,706 | 1,735 |
| Teaching assistantships | 373 | 441 | 459 | 502 | 502 | 517 | 488 | 472 |
| Traineeships | 40 | 35 | 40 | 33 | 33 | 34 | 36 | 31 |
| Other types of support | 1,044 | 1,048 | 1,103 | 980 | 980 | 1,137 | 1,296 | 1,586 |
| Self-support | 703 | 708 | 789 | 725 | 725 | 869 | 1,013 | 1,251 |
| Other | 341 | 340 | 314 | 255 | 255 | 268 | 283 | 335 |
| Agricultural engineering | 842 | 855 | 893 | 917 | 917 | 1,022 | 1,084 | 1,198 |
| Fellowships | 64 | 59 | 34 | 40 | 40 | 62 | 73 | 59 |
| Research assistantships | 558 | 578 | 604 | 628 | 628 | 751 | 751 | 775 |
| Teaching assistantships | 64 | 69 | 68 | 61 | 61 | 50 | 32 | 63 |
| Traineeships | 11 | 2 | 11 | 36 | 36 | 0 | 2 | 5 |
| Other types of support | 145 | 147 | 176 | 152 | 152 | 159 | 226 | 296 |
| Self-support | 111 | 99 | 119 | 95 | 95 | 122 | 172 | 257 |
| Other | 34 | 48 | 57 | 57 | 57 | 37 | 54 | 39 |
| Architecture[a] | na | na | na | na | 3,981 | 5,092 | 5,988 | 5,959 |
| Fellowships | na | na | na | na | 335 | 395 | 387 | 486 |
| Research assistantships | na | na | na | na | 330 | 306 | 330 | 372 |
| Teaching assistantships | na | na | na | na | 723 | 900 | 848 | 879 |
| Traineeships | na | na | na | na | 10 | 1 | 4 | 4 |
| Other types of support | na | na | na | na | 2,583 | 3,490 | 4,419 | 4,218 |
| Self-support | na | na | na | na | 2,225 | 2,933 | 3,626 | 3,480 |
| Other | na | na | na | na | 358 | 557 | 793 | 738 |
| Biomedical engineering | 5,015 | 5,232 | 5,641 | 5,885 | 5,908 | 6,260 | 6,840 | 7,375 |
| Fellowships | 838 | 778 | 812 | 815 | 819 | 938 | 1,014 | 1,102 |
| Research assistantships | 2,047 | 2,231 | 2,432 | 2,548 | 2,559 | 2,969 | 3,259 | 3,444 |
| Teaching assistantships | 458 | 458 | 480 | 518 | 518 | 535 | 527 | 554 |
| Traineeships | 304 | 336 | 360 | 361 | 361 | 347 | 382 | 427 |
| Other types of support | 1,368 | 1,429 | 1,557 | 1,643 | 1,651 | 1,471 | 1,658 | 1,848 |
| Self-support | 1,219 | 1,268 | 1,370 | 1,336 | 1,336 | 1,222 | 1,435 | 1,619 |
| Other | 149 | 161 | 187 | 307 | 315 | 249 | 223 | 229 |
| Chemical engineering | 6,346 | 6,110 | 6,185 | 6,249 | 6,433 | 6,722 | 7,058 | 7,472 |
| Fellowships | 689 | 648 | 677 | 772 | 814 | 864 | 834 | 860 |
| Research assistantships | 3,749 | 3,593 | 3,652 | 3,598 | 3,702 | 3,789 | 4,063 | 4,158 |

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

| Field and primary mechanism of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Teaching assistantships | 786 | 757 | 742 | 765 | 810 | 835 | 841 | 816 |
| Traineeships | 102 | 123 | 114 | 72 | 69 | 78 | 90 | 90 |
| Other types of support | 1,020 | 989 | 1,000 | 1,042 | 1,038 | 1,156 | 1,230 | 1,548 |
| Self-support | 780 | 769 | 757 | 793 | 787 | 912 | 992 | 1,256 |
| Other | 240 | 220 | 243 | 249 | 251 | 244 | 238 | 292 |
| Civil engineering[a] | 13,348 | 12,958 | 12,836 | 14,352 | 11,063 | 11,619 | 13,120 | 13,719 |
| Fellowships | 1,092 | 1,094 | 1,035 | 1,235 | 931 | 938 | 950 | 1,056 |
| Research assistantships | 4,858 | 4,440 | 4,339 | 4,461 | 4,262 | 4,386 | 4,893 | 4,949 |
| Teaching assistantships | 2,082 | 1,984 | 2,129 | 2,283 | 1,604 | 1,825 | 1,774 | 1,922 |
| Traineeships | 152 | 159 | 148 | 158 | 148 | 175 | 103 | 32 |
| Other types of support | 5,164 | 5,281 | 5,185 | 6,215 | 4,118 | 4,295 | 5,400 | 5,760 |
| Self-support | 4,287 | 4,493 | 4,448 | 5,311 | 3,484 | 3,624 | 4,660 | 4,947 |
| Other | 877 | 788 | 737 | 904 | 634 | 671 | 740 | 813 |
| Electrical engineering | 25,783 | 25,002 | 26,259 | 27,522 | 27,646 | 27,813 | 27,792 | 28,605 |
| Fellowships | 1,504 | 1,558 | 1,520 | 1,769 | 1,767 | 1,666 | 1,604 | 1,620 |
| Research assistantships | 10,136 | 10,176 | 9,834 | 9,623 | 9,706 | 10,070 | 10,475 | 10,553 |
| Teaching assistantships | 3,881 | 3,822 | 3,806 | 3,805 | 3,831 | 3,927 | 3,793 | 3,634 |
| Traineeships | 112 | 140 | 90 | 48 | 48 | 54 | 43 | 73 |
| Other types of support | 10,150 | 9,306 | 11,009 | 12,277 | 12,294 | 12,096 | 11,877 | 12,725 |
| Self-support | 8,605 | 7,722 | 9,165 | 10,348 | 10,368 | 10,530 | 10,470 | 11,469 |
| Other | 1,545 | 1,584 | 1,844 | 1,929 | 1,926 | 1,566 | 1,407 | 1,256 |
| Engineering science | 1,712 | 1,589 | 1,639 | 1,437 | 1,402 | 1,444 | 1,450 | 1,478 |
| Fellowships | 272 | 306 | 298 | 233 | 224 | 194 | 164 | 175 |
| Research assistantships | 861 | 808 | 750 | 571 | 557 | 618 | 721 | 687 |
| Teaching assistantships | 219 | 173 | 189 | 183 | 176 | 118 | 133 | 155 |
| Traineeships | 22 | 20 | 29 | 23 | 23 | 19 | 7 | 14 |
| Other types of support | 338 | 282 | 373 | 427 | 422 | 495 | 425 | 447 |
| Self-support | 227 | 185 | 266 | 285 | 284 | 340 | 306 | 321 |
| Other | 111 | 97 | 107 | 142 | 138 | 155 | 119 | 126 |
| Industrial engineering | 6,352 | 5,822 | 6,171 | 6,727 | 7,109 | 7,852 | 7,878 | 7,829 |
| Fellowships | 436 | 417 | 413 | 347 | 419 | 420 | 430 | 395 |
| Research assistantships | 1,661 | 1,481 | 1,556 | 1,539 | 1,631 | 1,905 | 1,747 | 1,762 |
| Teaching assistantships | 923 | 899 | 952 | 968 | 996 | 1,063 | 1,000 | 960 |
| Traineeships | 46 | 51 | 54 | 62 | 62 | 51 | 45 | 64 |
| Other types of support | 3,286 | 2,974 | 3,196 | 3,811 | 4,001 | 4,413 | 4,656 | 4,648 |
| Self-support | 2,519 | 2,251 | 2,493 | 3,231 | 3,449 | 3,742 | 3,900 | 3,807 |
| Other | 767 | 723 | 703 | 580 | 552 | 671 | 756 | 841 |
| Mechanical engineering | 12,478 | 11,984 | 12,408 | 12,913 | 12,903 | 13,456 | 15,215 | 16,257 |
| Fellowships | 914 | 921 | 981 | 1,078 | 1,076 | 1,176 | 1,318 | 1,412 |
| Research assistantships | 5,686 | 5,308 | 5,610 | 5,586 | 5,582 | 5,525 | 6,220 | 6,685 |
| Teaching assistantships | 2,178 | 2,171 | 2,229 | 2,316 | 2,317 | 2,389 | 2,441 | 2,570 |
| Traineeships | 98 | 104 | 89 | 62 | 54 | 67 | 132 | 80 |
| Other types of support | 3,602 | 3,480 | 3,499 | 3,871 | 3,874 | 4,299 | 5,104 | 5,510 |
| Self-support | 2,929 | 2,895 | 2,849 | 3,268 | 3,270 | 3,595 | 4,351 | 4,648 |
| Other | 673 | 585 | 650 | 603 | 604 | 704 | 753 | 862 |
| Metallurgical/materials engineering | 4,338 | 4,491 | 4,606 | 4,647 | 4,593 | 4,784 | 5,166 | 5,519 |
| Fellowships | 556 | 652 | 547 | 565 | 532 | 487 | 498 | 546 |
| Research assistantships | 2,726 | 2,764 | 2,847 | 2,814 | 2,829 | 2,996 | 3,119 | 3,298 |
| Teaching assistantships | 407 | 408 | 455 | 496 | 451 | 416 | 438 | 443 |
| Traineeships | 21 | 23 | 28 | 29 | 32 | 37 | 31 | 23 |
| Other types of support | 628 | 644 | 729 | 743 | 749 | 848 | 1,080 | 1,209 |
| Self-support | 507 | 525 | 582 | 578 | 586 | 638 | 878 | 1,041 |
| Other | 121 | 119 | 147 | 165 | 163 | 210 | 202 | 168 |

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

| Field and primary mechanism of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 229 | 200 | 177 | 199 | 132 | 201 | 205 | 353 |
| Fellowships | 23 | 13 | 7 | 16 | 16 | 7 | 8 | 20 |
| Research assistantships | 92 | 94 | 62 | 86 | 74 | 112 | 108 | 178 |
| Teaching assistantships | 25 | 19 | 30 | 26 | 20 | 35 | 32 | 44 |
| Traineeships | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other types of support | 88 | 74 | 78 | 71 | 22 | 47 | 57 | 111 |
| Self-support | 57 | 47 | 50 | 56 | 19 | 40 | 42 | 105 |
| Other | 31 | 27 | 28 | 15 | 3 | 7 | 15 | 6 |
| Nuclear engineering | 809 | 840 | 910 | 960 | 951 | 941 | 968 | 1,123 |
| Fellowships | 109 | 122 | 141 | 142 | 142 | 141 | 158 | 187 |
| Research assistantships | 456 | 447 | 470 | 480 | 472 | 476 | 499 | 593 |
| Teaching assistantships | 68 | 62 | 62 | 85 | 85 | 76 | 89 | 92 |
| Traineeships | 6 | 7 | 6 | 8 | 8 | 12 | 9 | 13 |
| Other types of support | 170 | 202 | 231 | 245 | 244 | 236 | 213 | 238 |
| Self-support | 99 | 126 | 133 | 143 | 142 | 134 | 133 | 149 |
| Other | 71 | 76 | 98 | 102 | 102 | 102 | 80 | 89 |
| Petroleum engineering | 658 | 629 | 642 | 786 | 786 | 822 | 988 | 1,058 |
| Fellowships | 88 | 81 | 60 | 55 | 55 | 27 | 55 | 53 |
| Research assistantships | 269 | 302 | 314 | 410 | 410 | 435 | 524 | 550 |
| Teaching assistantships | 70 | 63 | 85 | 80 | 80 | 124 | 118 | 118 |
| Traineeships | 3 | 3 | 3 | 5 | 5 | 0 | 0 | 0 |
| Other types of support | 228 | 180 | 180 | 236 | 236 | 236 | 291 | 337 |
| Self-support | 156 | 130 | 127 | 164 | 164 | 187 | 216 | 266 |
| Other | 72 | 50 | 53 | 72 | 72 | 49 | 75 | 71 |
| Engineering, nec | 3,516 | 3,379 | 3,476 | 3,861 | 3,708 | 3,461 | 3,898 | 4,302 |
| Fellowships | 302 | 309 | 324 | 365 | 312 | 325 | 333 | 418 |
| Research assistantships | 1,148 | 1,045 | 1,191 | 1,181 | 1,120 | 1,267 | 1,335 | 1,303 |
| Teaching assistantships | 463 | 418 | 357 | 308 | 336 | 471 | 380 | 502 |
| Traineeships | 23 | 14 | 20 | 24 | 32 | 4 | 5 | 7 |
| Other types of support | 1,580 | 1,593 | 1,584 | 1,983 | 1,908 | 1,394 | 1,845 | 2,072 |
| Self-support | 898 | 859 | 773 | 1,125 | 1,037 | 1,170 | 1,646 | 1,822 |
| Other | 682 | 734 | 811 | 858 | 871 | 224 | 199 | 250 |
| Health[a,b] | 55,329 | 57,827 | 61,756 | 61,292 | 59,288 | 59,943 | 52,287 | 46,868 |
| Fellowships | 2,793 | 2,795 | 2,987 | 3,432 | 2,991 | 2,738 | 2,611 | 2,459 |
| Research assistantships | 7,035 | 7,231 | 7,221 | 7,235 | 6,707 | 6,485 | 6,457 | 6,497 |
| Teaching assistantships | 3,717 | 3,891 | 4,201 | 4,579 | 4,318 | 4,015 | 3,439 | 3,523 |
| Traineeships | 4,583 | 4,344 | 4,553 | 3,874 | 3,622 | 3,093 | 2,763 | 2,473 |
| Other types of support | 37,201 | 39,566 | 42,794 | 42,172 | 41,650 | 43,612 | 37,017 | 31,916 |
| Self-support | 31,492 | 33,472 | 35,718 | 34,591 | 34,087 | 36,932 | 31,554 | 27,014 |
| Other | 5,709 | 6,094 | 7,076 | 7,581 | 7,563 | 6,680 | 5,463 | 4,902 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All surveyed fields | 632,652 | 33,375 | 2,884 | 37,228 | 38,199 | 1,354 | 299,993 | 5,816 | 39,643 | 174,160 |
| Science and engineering | 556,532 | 28,609 | 2,500 | 32,185 | 31,094 | 1,088 | 255,256 | 4,989 | 34,682 | 166,129 |
| Science | 407,291 | 22,969 | 2,171 | 21,915 | 26,914 | 914 | 202,386 | 3,987 | 26,852 | 99,183 |
| Agricultural sciences | 15,656 | 770 | 146 | 340 | 482 | 37 | 9,867 | 109 | 665 | 3,240 |
| Biological sciences | 74,928 | 3,970 | 361 | 6,105 | 3,653 | 242 | 38,386 | 635 | 4,145 | 17,431 |
| Anatomy | 849 | 55 | 1 | 66 | 33 | 12 | 494 | 5 | 32 | 151 |
| Biochemistry | 5,308 | 259 | 30 | 455 | 187 | 19 | 2,333 | 26 | 280 | 1,719 |
| Biology | 17,210 | 1,011 | 76 | 1,066 | 828 | 42 | 9,246 | 211 | 1,179 | 3,551 |
| Biometry/epidemiology | 6,398 | 287 | 25 | 722 | 545 | 22 | 2,722 | 54 | 387 | 1,634 |
| Biophysics | 1,072 | 43 | 5 | 101 | 28 | 3 | 502 | 4 | 48 | 338 |
| Botany | 1,863 | 60 | 15 | 85 | 19 | 21 | 877 | 23 | 64 | 699 |
| Cell biology | 7,047 | 385 | 41 | 686 | 257 | 24 | 3,220 | 58 | 371 | 2,005 |
| Ecology | 1,828 | 71 | 9 | 51 | 19 | 5 | 1,313 | 13 | 137 | 210 |
| Entomology/parasitology | 1,116 | 43 | 6 | 29 | 21 | 1 | 703 | 13 | 35 | 265 |
| Genetics | 2,333 | 95 | 12 | 147 | 75 | 8 | 1,300 | 6 | 89 | 601 |
| Microbiology/immunology/virology | 4,896 | 284 | 30 | 415 | 244 | 4 | 2,691 | 39 | 206 | 983 |
| Nutrition | 5,548 | 289 | 20 | 409 | 248 | 9 | 3,268 | 43 | 274 | 988 |
| Pathology | 1,376 | 77 | 5 | 112 | 94 | 7 | 734 | 5 | 56 | 286 |
| Pharmacology | 3,101 | 152 | 11 | 290 | 228 | 12 | 1,404 | 16 | 154 | 834 |
| Physiology | 2,879 | 127 | 15 | 292 | 122 | 17 | 1,548 | 13 | 123 | 622 |
| Zoology | 896 | 26 | 7 | 29 | 12 | 7 | 635 | 17 | 40 | 123 |
| Biological sciences, nec | 11,208 | 706 | 53 | 1,150 | 693 | 29 | 5,396 | 89 | 670 | 2,422 |
| Communication[b] | 9,825 | 563 | 63 | 309 | 785 | 18 | 5,848 | 119 | 596 | 1,524 |
| Computer sciences | 51,546 | 1,455 | 125 | 3,543 | 2,228 | 59 | 15,604 | 298 | 2,858 | 25,376 |
| Earth, atmospheric, and ocean sciences | 15,655 | 669 | 102 | 402 | 328 | 19 | 10,141 | 146 | 922 | 2,926 |
| Atmospheric sciences | 1,455 | 59 | 5 | 51 | 51 | 2 | 902 | 5 | 58 | 322 |
| Geosciences | 8,251 | 324 | 69 | 167 | 132 | 11 | 5,328 | 79 | 497 | 1,644 |
| Oceanography | 2,556 | 140 | 10 | 45 | 29 | 2 | 1,733 | 27 | 136 | 434 |
| Earth/atmospheric/ocean sciences, nec | 3,393 | 146 | 18 | 139 | 116 | 4 | 2,178 | 35 | 231 | 526 |
| Family and consumer sciences/ human sciences[b] | 4,191 | 205 | 26 | 147 | 595 | 2 | 2,548 | 37 | 244 | 387 |
| Mathematical sciences | 23,136 | 794 | 51 | 1,501 | 740 | 34 | 9,722 | 248 | 1,431 | 8,615 |
| Mathematics/applied mathematics | 17,589 | 680 | 41 | 1,056 | 599 | 31 | 8,117 | 235 | 1,029 | 5,801 |
| Statistics | 5,547 | 114 | 10 | 445 | 141 | 3 | 1,605 | 13 | 402 | 2,814 |
| Multidisciplinary/interdisciplinary studies[b] | 7,944 | 617 | 50 | 343 | 561 | 8 | 4,199 | 72 | 857 | 1,237 |

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Neuroscience[b] | 2,798 | 166 | 10 | 244 | 86 | 5 | 1,650 | 13 | 158 | 466 |
| Physical sciences | 38,973 | 1,364 | 102 | 1,785 | 1,008 | 38 | 17,319 | 268 | 1,768 | 15,321 |
| Astronomy | 1,331 | 38 | 7 | 58 | 7 | 2 | 731 | 18 | 71 | 399 |
| Chemistry | 22,436 | 873 | 57 | 1,179 | 786 | 22 | 9,771 | 150 | 928 | 8,670 |
| Physics | 14,507 | 432 | 28 | 521 | 195 | 13 | 6,429 | 96 | 746 | 6,047 |
| Physical sciences, nec | 699 | 21 | 10 | 27 | 20 | 1 | 388 | 4 | 23 | 205 |
| Psychology[c] | 53,419 | 4,859 | 353 | 2,429 | 5,442 | 122 | 32,043 | 658 | 4,426 | 3,087 |
| Clinical psychology | 12,155 | 1,579 | 84 | 653 | 924 | 34 | 7,104 | 137 | 1,242 | 398 |
| Psychology, general | 14,022 | 1,019 | 90 | 704 | 1,282 | 37 | 8,674 | 188 | 1,001 | 1,027 |
| Psychology, nec | 27,242 | 2,261 | 179 | 1,072 | 3,236 | 51 | 16,265 | 333 | 2,183 | 1,662 |
| Social sciences | 109,220 | 7,537 | 782 | 4,767 | 11,006 | 330 | 55,059 | 1,384 | 8,782 | 19,573 |
| Agricultural economics | 2,180 | 56 | 2 | 67 | 56 | 4 | 900 | 15 | 63 | 1,017 |
| Anthropology (cultural/social) | 8,528 | 544 | 127 | 284 | 248 | 31 | 5,379 | 159 | 766 | 990 |
| Economics (except agricultural) | 14,317 | 492 | 27 | 716 | 436 | 11 | 4,707 | 98 | 657 | 7,173 |
| Geography | 5,059 | 177 | 25 | 147 | 139 | 8 | 3,375 | 43 | 345 | 800 |
| History and philosophy of science | 705 | 26 | 2 | 16 | 43 | 2 | 498 | 8 | 35 | 75 |
| Linguistics | 3,132 | 149 | 29 | 186 | 61 | 8 | 1,458 | 56 | 235 | 950 |
| Political science | 45,045 | 3,344 | 257 | 2,089 | 5,759 | 162 | 22,933 | 559 | 4,417 | 5,525 |
| Sociology | 9,883 | 929 | 62 | 431 | 1,189 | 21 | 5,277 | 153 | 605 | 1,216 |
| Sociology/anthropology | 329 | 28 | 2 | 5 | 56 | 0 | 187 | 3 | 35 | 13 |
| Social sciences, nec | 20,042 | 1,792 | 249 | 826 | 3,019 | 83 | 10,345 | 290 | 1,624 | 1,814 |
| Engineering | 149,241 | 5,640 | 329 | 10,270 | 4,180 | 174 | 52,870 | 1,002 | 7,830 | 66,946 |
| Aerospace engineering | 5,540 | 240 | 11 | 416 | 92 | 3 | 2,702 | 49 | 380 | 1,647 |
| Agricultural engineering | 1,457 | 30 | 4 | 38 | 33 | 0 | 528 | 6 | 42 | 776 |
| Architecture[b] | 6,795 | 420 | 36 | 361 | 277 | 8 | 3,928 | 95 | 423 | 1,247 |
| Biomedical engineering | 8,497 | 325 | 19 | 1,185 | 240 | 17 | 3,526 | 77 | 414 | 2,694 |
| Chemical engineering | 8,668 | 279 | 18 | 588 | 164 | 16 | 2,872 | 40 | 295 | 4,396 |
| Civil engineering[b] | 19,559 | 1,091 | 55 | 1,244 | 594 | 42 | 8,245 | 270 | 941 | 7,077 |
| Electrical engineering | 41,336 | 1,157 | 48 | 2,956 | 937 | 29 | 9,035 | 157 | 1,790 | 25,227 |
| Engineering science | 2,071 | 65 | 3 | 146 | 44 | 0 | 784 | 24 | 119 | 886 |
| Industrial engineering | 15,205 | 677 | 43 | 914 | 708 | 14 | 5,011 | 63 | 1,598 | 6,177 |
| Mechanical engineering | 22,509 | 827 | 46 | 1,328 | 456 | 24 | 9,135 | 129 | 1,041 | 9,523 |
| Metallurgical/materials engineering | 6,274 | 170 | 12 | 416 | 130 | 2 | 2,252 | 31 | 184 | 3,077 |
| Mining engineering | 419 | 5 | 2 | 4 | 12 | 0 | 160 | 2 | 12 | 222 |
| Nuclear engineering | 1,459 | 53 | 4 | 68 | 23 | 2 | 912 | 13 | 88 | 296 |
| Petroleum engineering | 1,295 | 23 | 0 | 42 | 29 | 0 | 184 | 2 | 13 | 1,002 |
| Engineering, nec | 8,157 | 278 | 28 | 564 | 441 | 17 | 3,596 | 44 | 490 | 2,699 |

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Health | 76,120 | 4,766 | 384 | 5,043 | 7,105 | 266 | 44,737 | 827 | 4,961 | 8,031 |
| Clinical medicine | 25,699 | 1,854 | 142 | 2,281 | 3,724 | 100 | 12,639 | 340 | 1,836 | 2,783 |
| Anesthesiology | 325 | 13 | 0 | 16 | 8 | 0 | 251 | 3 | 34 | 0 |
| Cardiology | 51 | 0 | 0 | 3 | 5 | 0 | 24 | 0 | 0 | 19 |
| Endocrinology | 53 | 1 | 0 | 6 | 6 | 1 | 24 | 0 | 4 | 11 |
| Gastroenterology | 7 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 1 | 0 |
| Hematology | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| Neurology[b] | 1,056 | 47 | 5 | 84 | 40 | 9 | 590 | 9 | 76 | 196 |
| Obstetrics/gynecology | 79 | 11 | 0 | 10 | 3 | 0 | 40 | 1 | 3 | 11 |
| Oncology/cancer research | 232 | 9 | 0 | 22 | 14 | 0 | 130 | 2 | 13 | 42 |
| Ophthalmology | 5 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 |
| Otorhinolaryngology | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Pediatrics | 211 | 12 | 2 | 17 | 6 | 0 | 125 | 4 | 11 | 34 |
| Preventive medicine/community health | 20,445 | 1,509 | 118 | 1,813 | 3,328 | 87 | 9,693 | 284 | 1,478 | 2,135 |
| Psychiatry | 260 | 78 | 0 | 11 | 48 | 0 | 107 | 0 | 5 | 11 |
| Pulmonary disease | 12 | 1 | 1 | 1 | 1 | 0 | 7 | 0 | 1 | 0 |
| Radiology | 396 | 14 | 2 | 26 | 10 | 1 | 211 | 4 | 38 | 90 |
| Surgery | 59 | 3 | 0 | 1 | 3 | 0 | 27 | 19 | 1 | 5 |
| Clinical medicine, nec | 2,498 | 156 | 14 | 267 | 251 | 2 | 1,399 | 14 | 171 | 224 |
| Other health[c] | 50,421 | 2,912 | 242 | 2,762 | 3,381 | 166 | 32,098 | 487 | 3,125 | 5,248 |
| Dental sciences | 1,661 | 84 | 11 | 211 | 41 | 5 | 775 | 8 | 67 | 459 |
| Nursing | 12,107 | 728 | 90 | 742 | 1,152 | 45 | 7,873 | 154 | 953 | 370 |
| Pharmaceutical sciences | 4,291 | 146 | 15 | 338 | 237 | 7 | 1,380 | 6 | 150 | 2,012 |
| Speech pathology/audiology | 14,645 | 909 | 48 | 484 | 584 | 33 | 11,163 | 130 | 871 | 423 |
| Veterinary sciences | 2,211 | 65 | 7 | 83 | 71 | 4 | 1,229 | 13 | 107 | 632 |
| Other health, nec | 15,506 | 980 | 71 | 904 | 1,296 | 72 | 9,678 | 176 | 977 | 1,352 |

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All surveyed fields | 297,171 | 18,364 | 1,647 | 18,014 | 24,844 | 754 | 149,137 | 3,197 | 19,278 | 61,936 |
| Science and engineering | 240,481 | 14,813 | 1,351 | 14,386 | 19,160 | 554 | 114,557 | 2,578 | 15,596 | 57,486 |
| Science | 206,028 | 13,352 | 1,266 | 11,648 | 17,860 | 507 | 103,553 | 2,332 | 14,013 | 41,497 |
| Agricultural sciences | 7,819 | 412 | 87 | 199 | 277 | 20 | 4,835 | 71 | 352 | 1,566 |
| Biological sciences | 42,571 | 2,447 | 213 | 3,546 | 2,474 | 129 | 21,473 | 395 | 2,364 | 9,530 |
| Anatomy | 432 | 27 | 1 | 39 | 16 | 6 | 255 | 2 | 12 | 74 |
| Biochemistry | 2,655 | 153 | 16 | 250 | 120 | 10 | 1,051 | 19 | 128 | 908 |
| Biology | 9,582 | 618 | 42 | 604 | 572 | 19 | 4,918 | 130 | 670 | 2,009 |
| Biometry/epidemiology | 3,747 | 190 | 17 | 403 | 360 | 13 | 1,650 | 35 | 233 | 846 |
| Biophysics | 376 | 9 | 4 | 45 | 13 | 2 | 149 | 1 | 16 | 137 |
| Botany | 979 | 38 | 9 | 49 | 13 | 8 | 442 | 12 | 26 | 382 |
| Cell biology | 3,823 | 224 | 25 | 392 | 159 | 20 | 1,672 | 28 | 198 | 1,105 |
| Ecology | 1,009 | 44 | 5 | 33 | 14 | 2 | 732 | 9 | 77 | 93 |
| Entomology/parasitology | 550 | 26 | 2 | 18 | 7 | 0 | 355 | 9 | 14 | 119 |
| Genetics | 1,373 | 49 | 6 | 100 | 47 | 5 | 779 | 6 | 57 | 324 |
| Microbiology/immunology/virology | 2,849 | 183 | 18 | 260 | 158 | 2 | 1,515 | 23 | 125 | 565 |
| Nutrition | 4,479 | 247 | 16 | 315 | 215 | 7 | 2,711 | 34 | 242 | 692 |
| Pathology | 835 | 46 | 4 | 69 | 68 | 3 | 450 | 5 | 37 | 153 |
| Pharmacology | 1,755 | 87 | 6 | 163 | 153 | 5 | 779 | 9 | 88 | 465 |
| Physiology | 1,466 | 67 | 6 | 142 | 88 | 10 | 747 | 7 | 62 | 337 |
| Zoology | 508 | 11 | 2 | 18 | 7 | 2 | 366 | 11 | 22 | 69 |
| Biological sciences, nec | 6,153 | 428 | 34 | 646 | 464 | 15 | 2,902 | 55 | 357 | 1,252 |
| Communication[b] | 6,353 | 367 | 45 | 221 | 541 | 12 | 3,662 | 81 | 378 | 1,046 |
| Computer sciences | 12,807 | 334 | 31 | 980 | 822 | 13 | 3,133 | 81 | 654 | 6,759 |
| Earth, atmospheric, and ocean sciences | 7,200 | 336 | 46 | 215 | 158 | 13 | 4,731 | 83 | 433 | 1,185 |
| Atmospheric sciences | 484 | 24 | 0 | 18 | 15 | 1 | 258 | 2 | 25 | 141 |
| Geosciences | 3,493 | 156 | 32 | 83 | 57 | 8 | 2,292 | 39 | 222 | 604 |
| Oceanography | 1,423 | 73 | 7 | 33 | 18 | 1 | 1,006 | 19 | 63 | 203 |
| Earth/atmospheric/ocean sciences, nec | 1,800 | 83 | 7 | 81 | 68 | 3 | 1,175 | 23 | 123 | 237 |
| Family and consumer sciences/human sciences[b] | 3,461 | 166 | 20 | 123 | 511 | 1 | 2,099 | 29 | 208 | 304 |
| Mathematical sciences | 8,127 | 277 | 19 | 617 | 319 | 16 | 3,125 | 97 | 467 | 3,190 |
| Mathematics/applied mathematics | 5,768 | 235 | 17 | 388 | 255 | 15 | 2,594 | 92 | 327 | 1,845 |
| Statistics | 2,359 | 42 | 2 | 229 | 64 | 1 | 531 | 5 | 140 | 1,345 |
| Multidisciplinary/interdisciplinary studies[b] | 4,493 | 390 | 29 | 200 | 381 | 8 | 2,329 | 51 | 489 | 616 |

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Neuroscience[b] | 1,474 | 97 | 4 | 128 | 51 | 2 | 857 | 7 | 79 | 249 |
| Physical sciences | 12,826 | 506 | 37 | 738 | 514 | 16 | 5,267 | 98 | 545 | 5,105 |
| Astronomy | 423 | 11 | 3 | 24 | 3 | 1 | 242 | 6 | 25 | 108 |
| Chemistry | 9,261 | 419 | 24 | 575 | 454 | 11 | 3,747 | 68 | 375 | 3,588 |
| Physics | 2,899 | 69 | 6 | 127 | 50 | 3 | 1,141 | 22 | 137 | 1,344 |
| Physical sciences, nec | 243 | 7 | 4 | 12 | 7 | 1 | 137 | 2 | 8 | 65 |
| Psychology[c] | 40,238 | 3,720 | 266 | 1,868 | 4,478 | 92 | 23,716 | 506 | 3,312 | 2,280 |
| Clinical psychology | 9,455 | 1,245 | 64 | 520 | 757 | 28 | 5,447 | 106 | 970 | 318 |
| Psychology, general | 9,992 | 730 | 67 | 518 | 1,026 | 26 | 6,066 | 138 | 708 | 713 |
| Psychology, nec | 20,791 | 1,745 | 135 | 830 | 2,695 | 38 | 12,203 | 262 | 1,634 | 1,249 |
| Social sciences | 58,659 | 4,300 | 469 | 2,813 | 7,334 | 185 | 28,326 | 833 | 4,732 | 9,667 |
| Agricultural economics | 927 | 25 | 1 | 33 | 19 | 3 | 356 | 9 | 24 | 457 |
| Anthropology (cultural/social) | 5,490 | 357 | 78 | 194 | 189 | 19 | 3,465 | 108 | 494 | 586 |
| Economics (except agricultural) | 5,214 | 150 | 8 | 288 | 155 | 3 | 1,327 | 38 | 194 | 3,051 |
| Geography | 2,172 | 74 | 13 | 89 | 71 | 4 | 1,396 | 27 | 142 | 356 |
| History and philosophy of science | 316 | 12 | 1 | 10 | 23 | 1 | 213 | 3 | 14 | 39 |
| Linguistics | 1,888 | 91 | 19 | 126 | 39 | 4 | 819 | 27 | 139 | 624 |
| Political science | 23,970 | 1,880 | 153 | 1,243 | 3,834 | 87 | 11,344 | 327 | 2,354 | 2,748 |
| Sociology | 6,326 | 569 | 33 | 293 | 841 | 17 | 3,355 | 99 | 394 | 725 |
| Sociology/anthropology | 218 | 16 | 1 | 3 | 45 | 0 | 125 | 1 | 16 | 11 |
| Social sciences, nec | 12,138 | 1,126 | 162 | 534 | 2,118 | 47 | 5,926 | 194 | 961 | 1,070 |
| Engineering | 34,453 | 1,461 | 85 | 2,738 | 1,300 | 47 | 11,004 | 246 | 1,583 | 15,989 |
| Aerospace engineering | 784 | 36 | 4 | 56 | 17 | 2 | 375 | 12 | 49 | 233 |
| Agricultural engineering | 509 | 10 | 3 | 16 | 16 | 0 | 145 | 4 | 12 | 303 |
| Architecture[b] | 3,044 | 182 | 15 | 206 | 121 | 3 | 1,641 | 43 | 185 | 648 |
| Biomedical engineering | 3,133 | 120 | 7 | 437 | 129 | 5 | 1,227 | 28 | 149 | 1,031 |
| Chemical engineering | 2,722 | 104 | 2 | 219 | 65 | 4 | 753 | 10 | 73 | 1,492 |
| Civil engineering[b] | 5,571 | 370 | 22 | 404 | 206 | 14 | 2,235 | 59 | 244 | 2,017 |
| Electrical engineering | 7,193 | 151 | 4 | 548 | 174 | 6 | 851 | 21 | 252 | 5,186 |
| Engineering science | 438 | 12 | 0 | 31 | 9 | 0 | 132 | 2 | 23 | 229 |
| Industrial engineering | 3,684 | 190 | 8 | 253 | 231 | 3 | 1,033 | 16 | 295 | 1,655 |
| Mechanical engineering | 3,186 | 132 | 7 | 251 | 109 | 5 | 1,160 | 25 | 144 | 1,353 |
| Metallurgical/materials engineering | 1,754 | 55 | 5 | 143 | 57 | 0 | 570 | 11 | 39 | 874 |
| Mining engineering | 77 | 2 | 0 | 0 | 4 | 0 | 30 | 1 | 2 | 38 |
| Nuclear engineering | 228 | 13 | 0 | 16 | 9 | 1 | 126 | 3 | 13 | 47 |
| Petroleum engineering | 235 | 7 | 0 | 4 | 6 | 0 | 31 | 1 | 1 | 185 |
| Engineering, nec | 1,895 | 77 | 8 | 154 | 147 | 4 | 695 | 10 | 102 | 698 |

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Health | 56,690 | 3,551 | 296 | 3,628 | 5,684 | 200 | 34,580 | 619 | 3,682 | 4,450 |
| Clinical medicine | 17,857 | 1,320 | 105 | 1,593 | 2,926 | 75 | 8,756 | 240 | 1,271 | 1,571 |
| Anesthesiology | 193 | 6 | 0 | 7 | 5 | 0 | 156 | 2 | 17 | 0 |
| Cardiology | 22 | 0 | 0 | 1 | 4 | 0 | 9 | 0 | 0 | 8 |
| Endocrinology | 31 | 1 | 0 | 1 | 5 | 1 | 15 | 0 | 3 | 5 |
| Gastroenterology | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| Hematology | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Neurology[b] | 552 | 22 | 2 | 51 | 21 | 6 | 305 | 4 | 41 | 100 |
| Obstetrics/gynecology | 61 | 8 | 0 | 7 | 2 | 0 | 32 | 1 | 3 | 8 |
| Oncology/cancer research | 136 | 6 | 0 | 11 | 9 | 0 | 74 | 1 | 9 | 26 |
| Ophthalmology | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Otorhinolaryngology | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Pediatrics | 161 | 8 | 2 | 16 | 3 | 0 | 102 | 3 | 8 | 19 |
| Preventive medicine/community health | 14,865 | 1,098 | 88 | 1,320 | 2,658 | 67 | 7,070 | 208 | 1,100 | 1,256 |
| Psychiatry | 207 | 62 | 0 | 10 | 40 | 0 | 84 | 0 | 5 | 6 |
| Pulmonary disease | 8 | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 1 | 0 |
| Radiology | 124 | 6 | 1 | 12 | 3 | 0 | 63 | 0 | 10 | 29 |
| Surgery | 29 | 1 | 0 | 0 | 1 | 0 | 15 | 10 | 1 | 1 |
| Clinical medicine, nec | 1,459 | 102 | 11 | 155 | 174 | 1 | 820 | 11 | 73 | 112 |
| Other health[c] | 38,833 | 2,231 | 191 | 2,035 | 2,758 | 125 | 25,824 | 379 | 2,411 | 2,879 |
| Dental sciences | 744 | 45 | 2 | 102 | 21 | 4 | 299 | 3 | 33 | 235 |
| Nursing | 10,932 | 614 | 81 | 653 | 1,076 | 36 | 7,176 | 141 | 833 | 322 |
| Pharmaceutical sciences | 2,227 | 81 | 11 | 205 | 155 | 2 | 723 | 5 | 64 | 981 |
| Speech pathology/audiology | 13,531 | 791 | 43 | 428 | 537 | 28 | 10,426 | 119 | 800 | 359 |
| Veterinary sciences | 1,415 | 39 | 7 | 60 | 58 | 4 | 855 | 12 | 79 | 301 |
| Other health, nec | 9,984 | 661 | 47 | 587 | 911 | 51 | 6,345 | 99 | 602 | 681 |

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All institutions[b] | 407,291 | 22,969 | 2,171 | 21,915 | 26,914 | 914 | 202,386 | 3,987 | 26,852 | 99,183 |
| New England | 29,203 | 946 | 99 | 1,674 | 938 | 38 | 13,679 | 290 | 3,128 | 8,411 |
| Connecticut | 6,519 | 226 | 20 | 296 | 268 | 0 | 3,155 | 36 | 754 | 1,764 |
| Central CT State U. | 415 | 24 | 1 | 24 | 25 | 0 | 299 | 7 | 13 | 22 |
| CT C. | 7 | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 0 |
| Quinnipiac U. | 148 | 4 | 1 | 13 | 7 | 0 | 75 | 0 | 19 | 29 |
| Rensselaer Polytechnic U., Hartford | 37 | 7 | 0 | 6 | 2 | 0 | 21 | 0 | 1 | 0 |
| Sacred Heart U. | 145 | 3 | 1 | 8 | 4 | 0 | 58 | 0 | 7 | 64 |
| Southern CT State U. | 427 | 17 | 1 | 10 | 33 | 0 | 329 | 7 | 24 | 6 |
| St. Joseph C., West Hartford | 202 | 1 | 0 | 4 | 6 | 0 | 54 | 0 | 137 | 0 |
| U. Bridgeport | 458 | 13 | 1 | 13 | 21 | 0 | 194 | 16 | 0 | 200 |
| U. CT | 1,999 | 68 | 7 | 92 | 60 | 0 | 1,005 | 3 | 101 | 663 |
| U. Hartford | 163 | 7 | 0 | 12 | 14 | 0 | 101 | 0 | 22 | 7 |
| U. New Haven | 553 | 33 | 3 | 13 | 50 | 0 | 284 | 0 | 55 | 115 |
| Wesleyan U. | 133 | 3 | 0 | 4 | 1 | 0 | 69 | 2 | 5 | 49 |
| Western CT State U. | 30 | 2 | 0 | 0 | 1 | 0 | 20 | 0 | 7 | 0 |
| Yale U. | 1,802 | 44 | 5 | 97 | 43 | 0 | 640 | 1 | 363 | 609 |
| Maine | 561 | 1 | 2 | 8 | 0 | 5 | 388 | 5 | 72 | 80 |
| U. ME | 561 | 1 | 2 | 8 | 0 | 5 | 388 | 5 | 72 | 80 |
| Massachusetts | 18,509 | 611 | 56 | 1,227 | 585 | 32 | 8,120 | 225 | 2,017 | 5,636 |
| American International C. | 128 | 8 | 0 | 3 | 35 | 0 | 74 | 2 | 2 | 4 |
| Assumption C. | 108 | 7 | 0 | 2 | 5 | 0 | 83 | 3 | 8 | 0 |
| Boston C. | 697 | 22 | 0 | 24 | 20 | 1 | 386 | 6 | 29 | 209 |
| Boston U. | 3,787 | 142 | 9 | 334 | 138 | 6 | 1,691 | 61 | 606 | 800 |
| Brandeis U. | 1,125 | 30 | 1 | 32 | 26 | 0 | 348 | 1 | 203 | 484 |
| Bridgewater State C. | 154 | 0 | 1 | 3 | 7 | 1 | 126 | 1 | 3 | 12 |
| Clark U. | 469 | 11 | 1 | 7 | 15 | 0 | 187 | 2 | 60 | 186 |
| Fitchburg State U. | 75 | 0 | 0 | 0 | 2 | 0 | 28 | 0 | 0 | 45 |
| Framingham State C. | 115 | 0 | 1 | 5 | 0 | 0 | 89 | 0 | 20 | 0 |
| Harvard U. | 3,834 | 124 | 14 | 364 | 121 | 1 | 1,546 | 74 | 196 | 1,394 |
| MA C. of Pharmacy and Health Sciences | 18 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 15 |
| MA Institute of Technology | 2,037 | 96 | 12 | 199 | 41 | 0 | 791 | 25 | 195 | 678 |
| Mt. Holyoke C. | 4 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 |
| Northeastern U. | 1,181 | 20 | 4 | 23 | 24 | 0 | 303 | 0 | 324 | 483 |
| Salem State U. | 121 | 5 | 0 | 4 | 3 | 0 | 92 | 0 | 6 | 11 |
| Smith C. | 5 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Tufts U. | 860 | 30 | 2 | 60 | 32 | 1 | 541 | 7 | 20 | 167 |
| U. MA, Amherst | 1,536 | 63 | 6 | 39 | 45 | 1 | 670 | 27 | 140 | 545 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. MA, Boston | 506 | 20 | 1 | 27 | 22 | 10 | 290 | 1 | 62 | 73 |
| U. MA, Dartmouth | 332 | 8 | 0 | 2 | 8 | 0 | 179 | 3 | 41 | 91 |
| U. MA, Lowell | 698 | 15 | 4 | 50 | 26 | 0 | 402 | 8 | 44 | 149 |
| U. MA, Medical School | 353 | 3 | 0 | 28 | 9 | 11 | 138 | 2 | 47 | 115 |
| Williams C. | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 29 |
| Worcester Polytechnic Institute | 306 | 4 | 0 | 16 | 5 | 0 | 128 | 1 | 7 | 145 |
| Worcester State C. | 30 | 1 | 0 | 3 | 0 | 0 | 22 | 1 | 2 | 1 |
| New Hampshire | 1,192 | 19 | 7 | 51 | 12 | 0 | 664 | 7 | 106 | 326 |
| Dartmouth C. | 480 | 8 | 3 | 14 | 7 | 0 | 216 | 0 | 41 | 191 |
| Rivier C. | 42 | 0 | 0 | 22 | 1 | 0 | 16 | 0 | 3 | 0 |
| U. NH | 670 | 11 | 4 | 15 | 4 | 0 | 432 | 7 | 62 | 135 |
| Rhode Island | 1,877 | 64 | 11 | 70 | 67 | 1 | 970 | 7 | 160 | 527 |
| Brown U. | 1,077 | 39 | 5 | 51 | 29 | 1 | 417 | 6 | 102 | 427 |
| RI C. | 100 | 2 | 1 | 2 | 5 | 0 | 80 | 0 | 10 | 0 |
| U. RI | 700 | 23 | 5 | 17 | 33 | 0 | 473 | 1 | 48 | 100 |
| Vermont | 545 | 25 | 3 | 22 | 6 | 0 | 382 | 10 | 19 | 78 |
| Marlboro C. | 15 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 3 | 0 |
| U. VT | 530 | 25 | 3 | 22 | 6 | 0 | 370 | 10 | 16 | 78 |
| Middle Atlantic[b] | 64,188 | 2,918 | 174 | 4,179 | 4,070 | 99 | 28,580 | 582 | 5,285 | 18,301 |
| New Jersey | 8,732 | 411 | 13 | 755 | 555 | 14 | 3,241 | 45 | 1,233 | 2,465 |
| Fairleigh Dickinson U. | 883 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 584 | 299 |
| Kean U. | 278 | 38 | 0 | 22 | 88 | 0 | 106 | 1 | 9 | 14 |
| Monmouth U. | 138 | 13 | 0 | 3 | 5 | 0 | 65 | 3 | 9 | 40 |
| Montclair State U. | 577 | 57 | 0 | 26 | 40 | 1 | 359 | 1 | 46 | 47 |
| NJ Institute of Technology | 839 | 47 | 4 | 118 | 65 | 0 | 193 | 0 | 65 | 347 |
| Princeton U. | 1,357 | 40 | 3 | 91 | 39 | 1 | 594 | 17 | 93 | 479 |
| Rutgers, State U. NJ | 2,820 | 143 | 4 | 290 | 151 | 11 | 1,279 | 19 | 57 | 866 |
| Seton Hall U. | 795 | 41 | 1 | 36 | 101 | 0 | 306 | 4 | 258 | 48 |
| Stevens Institute of Technology | 376 | 13 | 1 | 41 | 8 | 0 | 91 | 0 | 60 | 162 |
| U. of Medicine and Dentistry of NJ | 587 | 15 | 0 | 121 | 46 | 1 | 220 | 0 | 28 | 156 |
| William Paterson U. | 82 | 4 | 0 | 7 | 12 | 0 | 28 | 0 | 24 | 7 |
| New York | 38,868 | 2,082 | 113 | 2,567 | 2,693 | 64 | 16,296 | 435 | 3,163 | 11,455 |
| Adelphi U. | 351 | 20 | 2 | 15 | 30 | 0 | 220 | 4 | 29 | 31 |
| Albany Medical C. | 110 | 2 | 0 | 7 | 4 | 0 | 75 | 4 | 1 | 17 |
| Alfred U. | 88 | 2 | 0 | 1 | 3 | 0 | 68 | 0 | 14 | 0 |
| Clarkson U. | 112 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 5 | 59 |
| C. New Rochelle | 411 | 35 | 4 | 2 | 121 | 0 | 52 | 0 | 197 | 0 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| C. of St. Rose | 90 | 4 | 0 | 0 | 4 | 0 | 55 | 2 | 17 | 8 |
| Columbia U. in the City of New York | 2,706 | 74 | 8 | 231 | 71 | 6 | 974 | 13 | 106 | 1,223 |
| Columbia U. in the City of New York, Teachers C. | 1,557 | 128 | 0 | 171 | 122 | 8 | 761 | 45 | 45 | 277 |
| Cornell U. | 3,253 | 113 | 7 | 185 | 80 | 11 | 1,332 | 50 | 182 | 1,293 |
| CUNY, Baruch C. | 1,265 | 168 | 4 | 135 | 229 | 0 | 497 | 28 | 157 | 47 |
| CUNY, Brooklyn C. | 940 | 65 | 0 | 102 | 280 | 0 | 371 | 0 | 0 | 122 |
| CUNY, C. Staten Island | 135 | 7 | 0 | 27 | 8 | 0 | 61 | 0 | 32 | 0 |
| CUNY, Hunter C. | 639 | 68 | 4 | 61 | 74 | 0 | 383 | 0 | 0 | 49 |
| CUNY, John Jay C. of Criminal Justice | 64 | 3 | 0 | 6 | 4 | 0 | 47 | 0 | 4 | 0 |
| CUNY, Lehman C. | 41 | 9 | 0 | 5 | 6 | 0 | 17 | 0 | 0 | 4 |
| CUNY, Queens C. | 1,056 | 134 | 7 | 121 | 203 | 0 | 379 | 113 | 4 | 95 |
| CUNY, City C. | 585 | 81 | 0 | 73 | 80 | 0 | 154 | 0 | 10 | 187 |
| CUNY, Graduate Ctr. | 1,796 | 99 | 3 | 71 | 74 | 0 | 551 | 7 | 472 | 519 |
| Fordham U. | 730 | 51 | 3 | 35 | 58 | 0 | 346 | 6 | 125 | 106 |
| Hofstra U. | 303 | 9 | 0 | 26 | 34 | 1 | 188 | 1 | 28 | 16 |
| Iona C. | 101 | 8 | 1 | 0 | 8 | 1 | 51 | 0 | 30 | 2 |
| Long Island U. | 757 | 77 | 5 | 47 | 218 | 0 | 192 | 0 | 123 | 95 |
| Marist C. | 485 | 39 | 2 | 13 | 69 | 1 | 260 | 0 | 79 | 22 |
| Mt. Sinai School of Medicine | 175 | 11 | 0 | 13 | 2 | 0 | 73 | 3 | 1 | 72 |
| New School | 1,483 | 128 | 6 | 106 | 123 | 3 | 684 | 19 | 169 | 245 |
| NY Institute of Technology | 300 | 9 | 2 | 14 | 22 | 0 | 54 | 0 | 32 | 167 |
| NY Medical C. | 241 | 14 | 1 | 53 | 26 | 1 | 94 | 0 | 9 | 43 |
| NY U. | 3,192 | 140 | 3 | 301 | 108 | 0 | 1,146 | 62 | 261 | 1,171 |
| Niagara U. | 94 | 2 | 2 | 0 | 6 | 0 | 72 | 0 | 2 | 10 |
| Pace U. | 448 | 35 | 0 | 36 | 55 | 0 | 113 | 1 | 101 | 107 |
| Polytechnic Institute of NY U. | 711 | 17 | 0 | 44 | 19 | 0 | 94 | 0 | 92 | 445 |
| Rensselaer Polytechnic U., Troy | 432 | 9 | 0 | 17 | 10 | 3 | 216 | 1 | 14 | 162 |
| Rochester Institute of Technology | 1,017 | 23 | 1 | 29 | 31 | 0 | 441 | 2 | 45 | 445 |
| Rockefeller U. | 142 | 1 | 0 | 11 | 7 | 0 | 62 | 0 | 5 | 56 |
| Russell Sage C. | 78 | 3 | 0 | 1 | 5 | 0 | 54 | 0 | 14 | 1 |
| Sarah Lawrence C. | 12 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 1 |
| St. John's U. | 537 | 75 | 2 | 60 | 70 | 1 | 224 | 10 | 19 | 76 |
| SUNY, Binghamton U. | 1,081 | 37 | 2 | 41 | 32 | 0 | 441 | 0 | 56 | 472 |
| SUNY, Buffalo State C. | 13 | 0 | 0 | 2 | 1 | 0 | 9 | 0 | 1 | 0 |
| SUNY, C. Brockport | 143 | 1 | 0 | 1 | 14 | 0 | 126 | 0 | 0 | 1 |
| SUNY, C. Fredonia | 45 | 0 | 0 | 0 | 0 | 0 | 27 | 18 | 0 | 0 |
| SUNY, C. New Paltz | 118 | 6 | 2 | 1 | 3 | 0 | 66 | 3 | 8 | 29 |
| SUNY, C. Oneonta | 25 | 1 | 0 | 0 | 0 | 0 | 20 | 0 | 4 | 0 |
| SUNY, C. of Environmental Science and Forestry | 353 | 4 | 6 | 5 | 2 | 0 | 253 | 0 | 2 | 81 |
| SUNY, C. of Optometry | 42 | 0 | 0 | 11 | 0 | 0 | 20 | 0 | 0 | 11 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| SUNY, C. Oswego | 116 | 4 | 1 | 1 | 2 | 0 | 103 | 2 | 3 | 0 |
| SUNY, C. Plattsburgh | 38 | 1 | 0 | 2 | 2 | 0 | 30 | 0 | 1 | 2 |
| SUNY, C. Potsdam | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| SUNY, Downstate Medical Ctr. | 67 | 4 | 0 | 15 | 6 | 0 | 22 | 1 | 0 | 19 |
| SUNY, Institute of Technology, Utica/Rome | 176 | 2 | 0 | 7 | 6 | 0 | 111 | 0 | 1 | 49 |
| SUNY, Stony Brook U. | 2,012 | 76 | 1 | 122 | 49 | 0 | 620 | 8 | 98 | 1,038 |
| SUNY, U. Albany | 2,183 | 85 | 8 | 93 | 122 | 6 | 1,296 | 8 | 155 | 410 |
| SUNY, U. Buffalo | 2,232 | 50 | 14 | 94 | 54 | 0 | 915 | 0 | 212 | 893 |
| SUNY, Upstate Medical U. | 114 | 3 | 0 | 7 | 3 | 0 | 52 | 0 | 2 | 47 |
| Syracuse U. | 1,837 | 58 | 6 | 67 | 93 | 3 | 771 | 11 | 85 | 743 |
| Union C., Schenectady | 21 | 2 | 0 | 1 | 2 | 0 | 12 | 0 | 1 | 3 |
| U. Rochester | 1,038 | 33 | 6 | 30 | 8 | 3 | 555 | 5 | 1 | 397 |
| Wagner C. | 11 | 1 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 |
| Yeshiva U. | 765 | 50 | 0 | 46 | 30 | 16 | 420 | 8 | 108 | 87 |
| Pennsylvania[b] | 16,588 | 425 | 48 | 857 | 822 | 21 | 9,043 | 102 | 889 | 4,381 |
| Bloomsburg U. PA | 14 | 0 | 0 | 1 | 0 | 0 | 12 | 0 | 0 | 1 |
| Bryn Mawr C. | 65 | 1 | 0 | 1 | 0 | 0 | 33 | 0 | 25 | 5 |
| Bucknell U. | 21 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 1 |
| Carnegie Mellon U. | 2,085 | 24 | 2 | 124 | 56 | 4 | 589 | 12 | 223 | 1,051 |
| Clarion U. PA | 54 | 0 | 0 | 1 | 5 | 0 | 38 | 0 | 9 | 1 |
| Drexel U. | 1,118 | 46 | 4 | 115 | 71 | 1 | 563 | 0 | 65 | 253 |
| Duquesne U. | 258 | 4 | 0 | 5 | 6 | 0 | 183 | 0 | 22 | 38 |
| Edinboro U. PA | 122 | 0 | 0 | 3 | 5 | 0 | 111 | 0 | 3 | 0 |
| Gannon U. | 138 | 1 | 0 | 2 | 5 | 0 | 80 | 0 | 6 | 44 |
| Indiana U. PA | 627 | 7 | 4 | 16 | 29 | 0 | 480 | 2 | 64 | 25 |
| Kutztown U. PA | 138 | 3 | 3 | 0 | 15 | 0 | 107 | 0 | 4 | 6 |
| Lehigh U. | 472 | 7 | 1 | 8 | 7 | 3 | 291 | 2 | 23 | 130 |
| Marywood U. | 131 | 4 | 1 | 2 | 1 | 0 | 106 | 2 | 11 | 4 |
| Millersville U. PA | 134 | 2 | 0 | 1 | 4 | 0 | 120 | 0 | 3 | 4 |
| PA State U. | 2,946 | 102 | 6 | 118 | 97 | 3 | 1,669 | 43 | 34 | 874 |
| Philadelphia C. of Osteopathic Medicine | 325 | 12 | 0 | 31 | 77 | 0 | 198 | 6 | 0 | 1 |
| Shippensburg U. PA | 290 | 7 | 0 | 9 | 34 | 0 | 208 | 2 | 17 | 13 |
| Slippery Rock U. PA | 124 | 4 | 1 | 0 | 6 | 0 | 104 | 0 | 9 | 0 |
| St. Joseph's U. | 580 | 27 | 3 | 17 | 89 | 1 | 344 | 7 | 22 | 70 |
| Temple U. | 1,281 | 28 | 5 | 65 | 113 | 0 | 688 | 6 | 65 | 311 |
| Thomas Jefferson U. | 220 | 0 | 0 | 15 | 14 | 1 | 134 | 0 | 26 | 30 |
| U. PA | 1,844 | 61 | 9 | 181 | 40 | 3 | 952 | 8 | 19 | 571 |
| U. Pittsburgh | 2,303 | 48 | 6 | 85 | 58 | 3 | 1,155 | 7 | 140 | 801 |
| U. of the Sciences Philadelphia | 141 | 3 | 1 | 10 | 7 | 0 | 22 | 0 | 71 | 27 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. Scranton | 129 | 3 | 1 | 6 | 2 | 0 | 90 | 1 | 12 | 14 |
| Villanova U. | 454 | 9 | 0 | 22 | 19 | 2 | 304 | 4 | 14 | 80 |
| West Chester U. PA | 479 | 19 | 1 | 18 | 56 | 0 | 361 | 0 | 0 | 24 |
| Wilkes U. | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| East North Central[b] | 61,531 | 1,890 | 223 | 2,455 | 3,275 | 100 | 32,793 | 599 | 3,093 | 17,103 |
| Illinois[b] | 20,393 | 814 | 38 | 1,097 | 1,372 | 31 | 9,907 | 249 | 1,040 | 5,845 |
| Bradley U. | 78 | 0 | 0 | 1 | 2 | 0 | 13 | 1 | 2 | 59 |
| Chicago State U. | 194 | 10 | 0 | 3 | 148 | 0 | 27 | 3 | 1 | 2 |
| DePaul U. | 1,566 | 120 | 1 | 150 | 174 | 5 | 732 | 17 | 184 | 183 |
| Eastern IL U. | 299 | 2 | 2 | 8 | 36 | 0 | 213 | 0 | 8 | 30 |
| Governors State U. | 326 | 26 | 1 | 4 | 146 | 1 | 82 | 2 | 14 | 50 |
| IL Institute of Technology | 1,276 | 22 | 1 | 36 | 28 | 0 | 260 | 5 | 162 | 762 |
| IL State U. | 745 | 20 | 0 | 30 | 24 | 0 | 527 | 10 | 18 | 116 |
| Loyola U., Chicago | 597 | 29 | 2 | 36 | 32 | 1 | 361 | 7 | 33 | 96 |
| Midwestern U. | 169 | 8 | 0 | 40 | 6 | 1 | 105 | 3 | 3 | 3 |
| North Central C. | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Northeastern IL U. | 370 | 29 | 0 | 36 | 20 | 0 | 191 | 2 | 44 | 48 |
| Northern IL U. | 921 | 21 | 2 | 48 | 32 | 2 | 600 | 14 | 15 | 187 |
| Northwestern U. | 1,925 | 107 | 5 | 131 | 84 | 0 | 903 | 21 | 140 | 534 |
| Roosevelt U. | 332 | 25 | 0 | 21 | 75 | 1 | 142 | 9 | 16 | 43 |
| Rosalind Franklin U. of Medicine and Science | 29 | 0 | 0 | 5 | 1 | 0 | 12 | 0 | 0 | 11 |
| Southern IL U., Carbondale | 1,643 | 29 | 1 | 40 | 87 | 10 | 979 | 0 | 7 | 490 |
| Southern IL U., Edwardsville | 601 | 13 | 4 | 4 | 64 | 3 | 383 | 10 | 29 | 91 |
| U. Chicago | 2,223 | 49 | 10 | 113 | 77 | 1 | 956 | 76 | 240 | 701 |
| U. IL, Chicago | 2,275 | 168 | 2 | 110 | 174 | 2 | 1,076 | 24 | 35 | 684 |
| U. IL, Springfield | 800 | 20 | 1 | 41 | 64 | 1 | 516 | 9 | 16 | 132 |
| U. IL, Urbana-Champaign | 3,523 | 104 | 4 | 214 | 76 | 3 | 1,571 | 34 | 46 | 1,471 |
| Western IL U. | 392 | 9 | 2 | 9 | 17 | 0 | 195 | 2 | 20 | 138 |
| Indiana | 8,068 | 183 | 37 | 210 | 250 | 12 | 3,978 | 54 | 549 | 2,795 |
| Ball State U. | 681 | 0 | 0 | 0 | 0 | 0 | 85 | 0 | 397 | 199 |
| IN State U. | 155 | 3 | 0 | 10 | 9 | 0 | 84 | 1 | 0 | 48 |
| IN U. | 3,591 | 76 | 19 | 111 | 121 | 12 | 2,041 | 30 | 28 | 1,153 |
| Purdue U. | 2,663 | 77 | 15 | 64 | 97 | 0 | 1,249 | 11 | 62 | 1,088 |
| U. Evansville | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| U. Notre Dame | 730 | 20 | 2 | 20 | 14 | 0 | 406 | 12 | 41 | 215 |
| U. of St. Francis | 27 | 1 | 0 | 0 | 1 | 0 | 23 | 0 | 1 | 1 |
| Valparaiso U. | 220 | 6 | 1 | 5 | 8 | 0 | 90 | 0 | 19 | 91 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

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| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Michigan[b] | 11,802 | 340 | 49 | 508 | 700 | 24 | 6,304 | 137 | 485 | 3,255 |
| Andrews U. | 100 | 9 | 0 | 0 | 14 | 0 | 55 | 1 | 0 | 21 |
| Central MI U. | 474 | 4 | 2 | 10 | 12 | 1 | 323 | 1 | 12 | 109 |
| Eastern MI U. | 1,050 | 23 | 6 | 32 | 137 | 0 | 640 | 7 | 54 | 151 |
| Ferris State U. | 41 | 0 | 1 | 2 | 0 | 0 | 20 | 2 | 0 | 16 |
| Grand Valley State U. | 168 | 2 | 0 | 9 | 3 | 0 | 108 | 3 | 2 | 41 |
| Lawrence Technological U. | 70 | 0 | 0 | 7 | 8 | 0 | 41 | 4 | 0 | 10 |
| MI State U. | 2,501 | 78 | 9 | 60 | 59 | 0 | 1,239 | 23 | 80 | 953 |
| MI Technological U. | 370 | 4 | 0 | 1 | 1 | 3 | 170 | 2 | 34 | 155 |
| Northern MI U. | 130 | 0 | 3 | 2 | 1 | 0 | 113 | 3 | 3 | 5 |
| Oakland U. | 392 | 7 | 2 | 29 | 13 | 0 | 240 | 0 | 22 | 79 |
| U. MI | 3,134 | 130 | 5 | 257 | 91 | 4 | 1,647 | 62 | 41 | 897 |
| Wayne State U. | 1,727 | 38 | 11 | 77 | 199 | 15 | 787 | 3 | 155 | 442 |
| Western MI U. | 1,322 | 40 | 10 | 18 | 110 | 1 | 793 | 26 | 47 | 277 |
| Ohio | 14,197 | 384 | 49 | 376 | 795 | 20 | 7,970 | 80 | 832 | 3,691 |
| Air Force Institute of Technology | 172 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 151 | 16 |
| Antioch U. | 1,506 | 108 | 7 | 44 | 79 | 0 | 1,061 | 8 | 153 | 46 |
| Bowling Green State U. | 618 | 14 | 4 | 10 | 26 | 0 | 324 | 2 | 27 | 211 |
| Case Western Reserve U. | 1,019 | 43 | 4 | 64 | 50 | 3 | 494 | 5 | 59 | 297 |
| Cleveland State U. | 722 | 16 | 3 | 13 | 68 | 0 | 373 | 5 | 41 | 203 |
| John Carroll U. | 68 | 2 | 0 | 0 | 2 | 0 | 60 | 2 | 2 | 0 |
| Kent State U. | 937 | 7 | 1 | 13 | 18 | 0 | 586 | 0 | 15 | 297 |
| Miami U. | 711 | 6 | 2 | 25 | 18 | 1 | 456 | 10 | 32 | 161 |
| OH State U. | 3,156 | 78 | 12 | 89 | 77 | 4 | 1,563 | 22 | 102 | 1,209 |
| OH U. | 901 | 17 | 2 | 9 | 32 | 0 | 453 | 14 | 33 | 341 |
| U. Akron | 855 | 13 | 0 | 12 | 84 | 0 | 477 | 2 | 10 | 257 |
| U. Cincinnati | 1,702 | 45 | 8 | 45 | 175 | 5 | 1,081 | 3 | 63 | 277 |
| U. Dayton | 360 | 6 | 1 | 3 | 57 | 0 | 219 | 3 | 29 | 42 |
| U. Toledo | 609 | 10 | 1 | 19 | 24 | 0 | 265 | 0 | 86 | 204 |
| Wright State U. | 639 | 18 | 3 | 25 | 71 | 7 | 403 | 4 | 21 | 87 |
| Xavier U. | 33 | 0 | 1 | 1 | 4 | 0 | 26 | 0 | 1 | 0 |
| Youngstown State U. | 189 | 1 | 0 | 4 | 10 | 0 | 124 | 0 | 7 | 43 |
| Wisconsin | 7,071 | 169 | 50 | 264 | 158 | 13 | 4,634 | 79 | 187 | 1,517 |
| Marquette U. | 356 | 9 | 0 | 8 | 9 | 0 | 215 | 2 | 12 | 101 |
| Medical C. WI | 208 | 2 | 1 | 6 | 6 | 1 | 148 | 1 | 0 | 43 |
| Milwaukee School of Engineering | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 1 | 0 |
| U. WI, Eau Claire | 24 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 1 | 1 |
| U. WI, Green Bay | 34 | 1 | 3 | 1 | 1 | 0 | 28 | 0 | 0 | 0 |
| U. WI, La Crosse | 123 | 4 | 0 | 1 | 0 | 0 | 114 | 1 | 2 | 1 |

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| U. WI, Madison | 3,800 | 125 | 34 | 162 | 70 | 8 | 2,201 | 0 | 158 | 1,042 |
| U. WI, Milwaukee | 2,124 | 25 | 9 | 74 | 68 | 0 | 1,574 | 75 | 9 | 290 |
| U. WI, Oshkosh | 93 | 2 | 2 | 3 | 0 | 0 | 81 | 0 | 0 | 5 |
| U. WI, Platteville | 6 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 1 |
| U. WI, Stevens Point | 98 | 1 | 1 | 1 | 1 | 0 | 91 | 0 | 2 | 1 |
| U. WI, Stout | 163 | 0 | 0 | 5 | 2 | 4 | 118 | 0 | 2 | 32 |
| U. WI, Whitewater | 31 | 0 | 0 | 2 | 1 | 0 | 28 | 0 | 0 | 0 |
| West North Central | 33,967 | 998 | 257 | 922 | 3,754 | 39 | 17,583 | 312 | 2,351 | 7,751 |
| Iowa | 4,628 | 103 | 20 | 98 | 132 | 6 | 2,213 | 1 | 88 | 1,967 |
| Drake U. | 192 | 5 | 0 | 4 | 17 | 0 | 161 | 1 | 2 | 2 |
| IA State U. | 2,159 | 36 | 6 | 45 | 54 | 0 | 1,161 | 0 | 71 | 786 |
| Loras C. | 17 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 3 | 0 |
| Maharishi U. of Management | 765 | 0 | 0 | 2 | 11 | 0 | 0 | 0 | 0 | 752 |
| U. IA | 1,230 | 58 | 9 | 47 | 37 | 5 | 686 | 0 | 11 | 377 |
| U. Northern IA | 265 | 4 | 5 | 0 | 13 | 1 | 191 | 0 | 1 | 50 |
| Kansas | 4,654 | 137 | 37 | 100 | 163 | 4 | 2,846 | 51 | 143 | 1,173 |
| Emporia State U. | 233 | 1 | 2 | 1 | 4 | 3 | 177 | 4 | 8 | 33 |
| Ft. Hays State U. | 86 | 4 | 0 | 0 | 4 | 0 | 74 | 0 | 4 | 0 |
| KS State U. | 1,499 | 35 | 7 | 30 | 65 | 0 | 831 | 14 | 13 | 504 |
| Pittsburg State U. | 156 | 2 | 2 | 0 | 1 | 0 | 109 | 0 | 17 | 25 |
| U. KS | 1,871 | 54 | 22 | 43 | 43 | 1 | 1,178 | 25 | 66 | 439 |
| Washburn U. | 27 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 1 |
| Wichita State U. | 782 | 41 | 4 | 26 | 46 | 0 | 451 | 8 | 35 | 171 |
| Minnesota | 12,763 | 486 | 109 | 358 | 3,063 | 10 | 5,539 | 174 | 1,595 | 1,429 |
| Bemidji State U. | 50 | 0 | 1 | 0 | 0 | 0 | 46 | 0 | 1 | 2 |
| Mayo Graduate School | 192 | 16 | 4 | 14 | 7 | 0 | 81 | 0 | 29 | 41 |
| MN State U., Mankato | 420 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 420 | 0 |
| MN State U., Moorhead | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| St. Cloud State U. | 281 | 3 | 1 | 15 | 11 | 0 | 205 | 0 | 0 | 46 |
| St. Mary's U. MN | 79 | 0 | 0 | 0 | 3 | 0 | 55 | 0 | 18 | 3 |
| U. MN | 3,835 | 81 | 16 | 177 | 59 | 9 | 2,246 | 66 | 71 | 1,110 |
| Walden U. | 7,887 | 386 | 87 | 152 | 2,983 | 1 | 2,887 | 108 | 1,056 | 227 |
| Missouri | 6,274 | 143 | 23 | 182 | 259 | 8 | 3,569 | 49 | 287 | 1,754 |
| A. T. Still U. | 24 | 2 | 0 | 2 | 3 | 0 | 16 | 0 | 1 | 0 |
| Forest Institute of Professional Psychology | 42 | 0 | 1 | 1 | 1 | 0 | 36 | 0 | 2 | 1 |
| Kansas City U. of Medicine and Biosciences | 92 | 0 | 0 | 9 | 2 | 1 | 77 | 2 | 1 | 0 |
| Lincoln U., Jefferson City | 28 | 0 | 0 | 0 | 13 | 0 | 12 | 0 | 1 | 2 |
| MO State U. | 413 | 11 | 3 | 11 | 5 | 2 | 314 | 5 | 24 | 38 |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| MO U. of Science and Technology | 208 | 1 | 0 | 2 | 2 | 0 | 69 | 0 | 0 | 134 |
| Northwest MO State U. | 237 | 1 | 0 | 4 | 1 | 0 | 116 | 5 | 0 | 110 |
| Southeast MO State U. | 68 | 0 | 0 | 0 | 3 | 0 | 41 | 0 | 0 | 24 |
| St. Louis U. | 556 | 14 | 0 | 14 | 52 | 0 | 374 | 15 | 13 | 74 |
| Truman State U. | 6 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| U. Central MO | 486 | 7 | 3 | 4 | 22 | 1 | 316 | 0 | 44 | 89 |
| U. MO, Columbia | 1,583 | 25 | 3 | 23 | 49 | 0 | 882 | 13 | 75 | 513 |
| U. MO, Kansas City | 763 | 32 | 2 | 22 | 43 | 1 | 351 | 3 | 48 | 261 |
| U. MO, St. Louis | 508 | 4 | 5 | 21 | 29 | 0 | 311 | 0 | 40 | 98 |
| Washington U., St. Louis | 1,260 | 45 | 6 | 69 | 34 | 3 | 649 | 6 | 38 | 410 |
| Nebraska | 3,077 | 98 | 13 | 75 | 99 | 10 | 1,883 | 25 | 118 | 756 |
| Creighton U. | 181 | 7 | 0 | 6 | 2 | 6 | 117 | 1 | 10 | 32 |
| U. NE, Kearney | 279 | 13 | 2 | 8 | 7 | 0 | 224 | 7 | 18 | 0 |
| U. NE, Lincoln | 1,670 | 52 | 8 | 39 | 49 | 2 | 930 | 11 | 67 | 512 |
| U. NE, Medical Ctr. | 125 | 3 | 0 | 5 | 1 | 2 | 62 | 0 | 0 | 52 |
| U. NE, Omaha | 822 | 23 | 3 | 17 | 40 | 0 | 550 | 6 | 23 | 160 |
| North Dakota | 1,446 | 12 | 27 | 27 | 19 | 0 | 764 | 8 | 94 | 495 |
| ND State U. | 936 | 4 | 3 | 12 | 10 | 0 | 438 | 8 | 52 | 409 |
| U. ND | 510 | 8 | 24 | 15 | 9 | 0 | 326 | 0 | 42 | 86 |
| South Dakota | 1,125 | 19 | 28 | 82 | 19 | 1 | 769 | 4 | 26 | 177 |
| SD School of Mines and Technology | 95 | 4 | 2 | 0 | 0 | 0 | 71 | 2 | 2 | 14 |
| SD State U. | 489 | 8 | 11 | 64 | 13 | 0 | 269 | 1 | 18 | 105 |
| U. SD | 541 | 7 | 15 | 18 | 6 | 1 | 429 | 1 | 6 | 58 |
| South Atlantic | 71,634 | 3,483 | 241 | 3,240 | 6,724 | 106 | 37,484 | 494 | 3,999 | 15,863 |
| Delaware | 1,450 | 24 | 3 | 39 | 84 | 1 | 737 | 3 | 15 | 544 |
| DE State U. | 90 | 2 | 0 | 2 | 39 | 0 | 25 | 0 | 3 | 19 |
| U. DE | 1,360 | 22 | 3 | 37 | 45 | 1 | 712 | 3 | 12 | 525 |
| District of Columbia | 8,736 | 398 | 28 | 535 | 884 | 11 | 4,246 | 76 | 1,096 | 1,462 |
| American U., Washington, DC | 2,087 | 107 | 9 | 69 | 179 | 0 | 902 | 53 | 533 | 235 |
| Catholic U. America | 273 | 13 | 0 | 17 | 13 | 0 | 137 | 0 | 55 | 38 |
| Gallaudet U. | 96 | 10 | 1 | 0 | 6 | 0 | 65 | 7 | 4 | 3 |
| George Washington U. | 3,045 | 132 | 16 | 203 | 132 | 4 | 1,669 | 16 | 317 | 556 |
| Georgetown U. | 2,624 | 124 | 2 | 242 | 85 | 3 | 1,457 | 0 | 172 | 539 |
| Howard U. | 590 | 10 | 0 | 3 | 465 | 4 | 16 | 0 | 1 | 91 |
| U. of the DC | 21 | 2 | 0 | 1 | 4 | 0 | 0 | 0 | 14 | 0 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Florida | 17,178 | 1,861 | 73 | 694 | 1,614 | 18 | 8,921 | 68 | 548 | 3,381 |
| Barry U. | 270 | 64 | 1 | 57 | 41 | 1 | 61 | 0 | 32 | 13 |
| Embry-Riddle Aeronautical U. | 101 | 8 | 1 | 0 | 3 | 0 | 60 | 2 | 14 | 13 |
| FL A&M U. | 294 | 3 | 0 | 1 | 237 | 1 | 7 | 0 | 0 | 45 |
| FL Atlantic U. | 940 | 109 | 2 | 49 | 62 | 0 | 547 | 0 | 14 | 157 |
| FL Institute of Technology | 645 | 28 | 0 | 11 | 16 | 0 | 292 | 2 | 94 | 202 |
| FL International U. | 1,219 | 405 | 1 | 38 | 116 | 0 | 319 | 14 | 13 | 313 |
| FL State U. | 2,528 | 145 | 24 | 61 | 167 | 8 | 1,488 | 3 | 26 | 606 |
| Nova Southeastern U. | 2,623 | 466 | 11 | 111 | 479 | 0 | 1,329 | 0 | 130 | 97 |
| U. Central FL | 1,800 | 134 | 6 | 63 | 154 | 2 | 1,090 | 10 | 46 | 295 |
| U. FL | 3,237 | 205 | 13 | 130 | 105 | 0 | 1,574 | 0 | 137 | 1,073 |
| U. Miami | 860 | 112 | 1 | 39 | 34 | 0 | 360 | 14 | 29 | 271 |
| U. South FL, Tampa | 1,984 | 142 | 8 | 110 | 152 | 2 | 1,270 | 5 | 13 | 282 |
| U. West FL | 677 | 40 | 5 | 24 | 48 | 4 | 524 | 18 | 0 | 14 |
| Georgia | 7,196 | 176 | 20 | 317 | 857 | 12 | 3,444 | 56 | 212 | 2,102 |
| Augusta State U. | 87 | 4 | 0 | 1 | 11 | 0 | 32 | 2 | 32 | 5 |
| Clark Atlanta U. | 232 | 0 | 1 | 1 | 204 | 0 | 4 | 0 | 5 | 17 |
| Emory U. | 894 | 31 | 1 | 45 | 55 | 2 | 436 | 1 | 73 | 250 |
| GA C. and State U. | 168 | 4 | 2 | 1 | 34 | 0 | 106 | 4 | 6 | 11 |
| GA Health Sciences U. | 137 | 0 | 0 | 6 | 11 | 0 | 44 | 1 | 1 | 74 |
| GA Institute of Technology | 1,786 | 46 | 3 | 105 | 71 | 0 | 708 | 22 | 7 | 824 |
| GA Southern U. | 250 | 8 | 3 | 9 | 31 | 0 | 170 | 4 | 8 | 17 |
| GA State U. | 1,233 | 33 | 3 | 81 | 177 | 6 | 501 | 11 | 24 | 397 |
| Morehouse School of Medicine | 110 | 1 | 0 | 9 | 99 | 0 | 1 | 0 | 0 | 0 |
| U. GA | 1,863 | 38 | 3 | 51 | 73 | 1 | 1,166 | 5 | 28 | 498 |
| U. West GA | 149 | 3 | 1 | 1 | 18 | 1 | 87 | 1 | 28 | 9 |
| Valdosta State U. | 287 | 8 | 3 | 7 | 73 | 2 | 189 | 5 | 0 | 0 |
| Maryland | 10,286 | 332 | 31 | 671 | 1,141 | 15 | 5,025 | 90 | 517 | 2,464 |
| Coppin State U. | 90 | 0 | 0 | 0 | 87 | 0 | 1 | 0 | 0 | 2 |
| Frostburg State U. | 69 | 1 | 0 | 1 | 1 | 0 | 63 | 0 | 0 | 3 |
| Hood C. | 329 | 8 | 2 | 16 | 34 | 0 | 218 | 6 | 21 | 24 |
| Johns Hopkins U. | 2,295 | 77 | 14 | 226 | 115 | 7 | 1,014 | 12 | 37 | 793 |
| Loyola U., MD | 578 | 18 | 1 | 20 | 98 | 2 | 395 | 7 | 18 | 19 |
| Morgan State U. | 101 | 5 | 0 | 4 | 62 | 1 | 7 | 1 | 1 | 20 |
| Towson U. | 724 | 16 | 6 | 42 | 110 | 0 | 360 | 0 | 49 | 141 |
| Uniformed Services U. of the Health Sciences | 121 | 6 | 0 | 8 | 3 | 0 | 84 | 0 | 3 | 17 |
| U. Baltimore | 475 | 15 | 1 | 13 | 194 | 1 | 160 | 6 | 57 | 28 |
| U. MD, Baltimore | 319 | 19 | 2 | 33 | 25 | 1 | 189 | 6 | 2 | 42 |
| U. MD, Baltimore County | 1,483 | 49 | 1 | 119 | 162 | 3 | 672 | 10 | 170 | 297 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. MD, College Park | 3,551 | 114 | 3 | 188 | 190 | 0 | 1,832 | 42 | 146 | 1,036 |
| U. MD, Eastern Shore | 127 | 4 | 1 | 1 | 60 | 0 | 18 | 0 | 13 | 30 |
| Washington C., MD | 24 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 12 |
| North Carolina | 11,298 | 290 | 41 | 366 | 1,081 | 35 | 6,537 | 96 | 203 | 2,649 |
| Appalachian State U. | 370 | 5 | 2 | 3 | 10 | 0 | 345 | 2 | 0 | 3 |
| Duke U. | 1,535 | 47 | 1 | 69 | 53 | 2 | 797 | 6 | 30 | 530 |
| East Carolina U. | 729 | 1 | 9 | 20 | 66 | 2 | 536 | 6 | 19 | 70 |
| NC Agricultural and Technical State U. | 222 | 2 | 1 | 3 | 159 | 0 | 19 | 0 | 2 | 36 |
| NC Central U. | 465 | 4 | 1 | 9 | 370 | 0 | 44 | 1 | 15 | 21 |
| NC State U. | 2,969 | 86 | 9 | 106 | 126 | 0 | 1,645 | 23 | 37 | 937 |
| U. NC, Chapel Hill | 2,360 | 80 | 10 | 94 | 130 | 22 | 1,489 | 23 | 38 | 474 |
| U. NC, Charlotte | 1,059 | 24 | 1 | 25 | 81 | 8 | 521 | 9 | 24 | 366 |
| U. NC, Greensboro | 568 | 20 | 2 | 15 | 51 | 0 | 368 | 10 | 7 | 95 |
| U. NC, Wilmington | 482 | 14 | 2 | 7 | 17 | 1 | 384 | 15 | 22 | 20 |
| Wake Forest U. | 408 | 6 | 0 | 13 | 14 | 0 | 270 | 0 | 8 | 97 |
| Western Carolina U. | 131 | 1 | 3 | 2 | 4 | 0 | 119 | 1 | 1 | 0 |
| South Carolina | 2,373 | 31 | 6 | 29 | 138 | 5 | 1,460 | 13 | 88 | 603 |
| Clemson U. | 1,132 | 10 | 1 | 12 | 55 | 0 | 649 | 9 | 58 | 338 |
| C. Charleston | 246 | 3 | 2 | 2 | 7 | 0 | 221 | 2 | 5 | 4 |
| Furman U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Medical U. SC | 160 | 4 | 0 | 5 | 12 | 0 | 106 | 0 | 10 | 23 |
| U. SC | 726 | 13 | 3 | 8 | 58 | 5 | 389 | 2 | 13 | 235 |
| Winthrop U. | 107 | 1 | 0 | 2 | 6 | 0 | 95 | 0 | 0 | 3 |
| Virginia | 11,469 | 346 | 34 | 556 | 873 | 7 | 5,992 | 76 | 1,300 | 2,285 |
| C. of William and Mary | 419 | 7 | 6 | 5 | 11 | 0 | 280 | 2 | 1 | 107 |
| Eastern VA Medical School | 71 | 4 | 1 | 7 | 6 | 0 | 46 | 0 | 0 | 7 |
| George Mason U. | 4,227 | 182 | 8 | 281 | 201 | 1 | 1,802 | 17 | 1,031 | 704 |
| Hampton U. | 111 | 1 | 0 | 9 | 82 | 0 | 12 | 4 | 0 | 3 |
| James Madison U. | 275 | 7 | 1 | 5 | 11 | 0 | 190 | 2 | 33 | 26 |
| Marymount U. | 372 | 13 | 0 | 14 | 37 | 1 | 234 | 0 | 40 | 33 |
| Old Dominion U. | 895 | 24 | 3 | 22 | 71 | 1 | 453 | 8 | 70 | 243 |
| Radford U. | 83 | 2 | 1 | 1 | 8 | 0 | 70 | 0 | 0 | 1 |
| U. VA | 1,273 | 16 | 4 | 48 | 43 | 2 | 756 | 9 | 51 | 344 |
| VA Commonwealth U. | 1,259 | 27 | 3 | 66 | 181 | 1 | 770 | 13 | 33 | 165 |
| VA Polytechnic Institute and State U. | 2,379 | 60 | 6 | 95 | 136 | 1 | 1,371 | 21 | 37 | 652 |
| VA State U. | 105 | 3 | 1 | 3 | 86 | 0 | 8 | 0 | 4 | 0 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| West Virginia | 1,648 | 25 | 5 | 33 | 52 | 2 | 1,122 | 16 | 20 | 373 |
| Marshall U. | 519 | 4 | 2 | 10 | 24 | 1 | 408 | 0 | 6 | 64 |
| WV U. | 1,129 | 21 | 3 | 23 | 28 | 1 | 714 | 16 | 14 | 309 |
| East South Central | 16,364 | 254 | 55 | 519 | 2,229 | 12 | 9,705 | 99 | 378 | 3,113 |
| Alabama | 4,548 | 67 | 21 | 260 | 827 | 5 | 2,519 | 12 | 107 | 730 |
| AL A&M U. | 153 | 1 | 0 | 7 | 99 | 0 | 9 | 2 | 1 | 34 |
| AL State U. | 30 | 0 | 0 | 0 | 21 | 0 | 4 | 0 | 0 | 5 |
| Auburn U. | 1,171 | 18 | 4 | 30 | 132 | 0 | 691 | 0 | 12 | 284 |
| Jacksonville State U. | 284 | 5 | 0 | 0 | 84 | 0 | 174 | 0 | 7 | 14 |
| Troy U. | 411 | 6 | 4 | 1 | 241 | 0 | 132 | 0 | 14 | 13 |
| Tuskegee U. | 57 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 8 | 11 |
| U. AL, Birmingham | 873 | 22 | 5 | 193 | 92 | 0 | 516 | 8 | 37 | 0 |
| U. AL, Huntsville | 407 | 0 | 3 | 16 | 28 | 0 | 251 | 1 | 8 | 100 |
| U. AL, Tuscaloosa | 767 | 9 | 3 | 8 | 61 | 3 | 503 | 1 | 3 | 176 |
| U. South AL | 395 | 6 | 2 | 5 | 31 | 2 | 239 | 0 | 17 | 93 |
| Kentucky | 3,645 | 50 | 7 | 56 | 218 | 2 | 2,301 | 25 | 117 | 869 |
| Eastern KY U. | 267 | 2 | 2 | 5 | 11 | 0 | 217 | 1 | 2 | 27 |
| Morehead State U. | 148 | 1 | 0 | 1 | 6 | 0 | 128 | 0 | 1 | 11 |
| Murray State U. | 395 | 7 | 0 | 2 | 65 | 0 | 248 | 6 | 2 | 65 |
| U. KY | 1,633 | 28 | 3 | 20 | 55 | 0 | 958 | 7 | 100 | 462 |
| U. Louisville | 739 | 10 | 0 | 25 | 63 | 2 | 456 | 6 | 9 | 168 |
| Western KY U. | 463 | 2 | 2 | 3 | 18 | 0 | 294 | 5 | 3 | 136 |
| Mississippi | 2,736 | 43 | 11 | 44 | 531 | 4 | 1,511 | 19 | 47 | 526 |
| Jackson State U. | 409 | 2 | 0 | 4 | 316 | 0 | 35 | 5 | 4 | 43 |
| MS State U. | 1,234 | 21 | 9 | 20 | 110 | 3 | 794 | 4 | 41 | 232 |
| U. MS | 371 | 5 | 0 | 13 | 36 | 1 | 196 | 3 | 1 | 116 |
| U. Southern MS | 722 | 15 | 2 | 7 | 69 | 0 | 486 | 7 | 1 | 135 |
| Tennessee | 5,435 | 94 | 16 | 159 | 653 | 1 | 3,374 | 43 | 107 | 988 |
| Austin Peay State U. | 121 | 3 | 0 | 2 | 16 | 0 | 93 | 1 | 4 | 2 |
| East TN State U. | 341 | 7 | 2 | 3 | 7 | 0 | 247 | 8 | 0 | 67 |
| Fisk U. | 39 | 3 | 0 | 1 | 22 | 1 | 6 | 1 | 0 | 5 |
| Meharry Medical C. | 60 | 0 | 0 | 1 | 58 | 0 | 0 | 0 | 0 | 1 |
| Middle TN State U. | 494 | 13 | 2 | 23 | 50 | 0 | 314 | 11 | 6 | 75 |
| TN State U. | 445 | 5 | 3 | 11 | 259 | 0 | 127 | 0 | 4 | 36 |
| TN Technological U. | 190 | 2 | 1 | 1 | 9 | 0 | 160 | 0 | 0 | 17 |
| U. Memphis | 665 | 6 | 1 | 24 | 98 | 0 | 373 | 7 | 3 | 153 |
| U. TN, Chattanooga | 176 | 2 | 0 | 1 | 9 | 0 | 112 | 1 | 42 | 9 |
| U. TN, Health Science Ctr. | 163 | 1 | 1 | 13 | 16 | 0 | 81 | 0 | 6 | 45 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
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| U. TN, Knoxville | 1,573 | 21 | 3 | 32 | 44 | 0 | 1,124 | 7 | 32 | 310 |
| Vanderbilt U. | 1,168 | 31 | 3 | 47 | 65 | 0 | 737 | 7 | 10 | 268 |
| West South Central | 40,495 | 3,701 | 348 | 1,634 | 3,570 | 51 | 18,154 | 291 | 1,410 | 11,336 |
| Arkansas | 2,094 | 36 | 16 | 37 | 162 | 1 | 1,179 | 12 | 46 | 605 |
| AR State U. | 353 | 3 | 3 | 1 | 51 | 1 | 181 | 3 | 3 | 107 |
| U. AR, Fayetteville | 974 | 18 | 10 | 9 | 28 | 0 | 588 | 5 | 31 | 285 |
| U. AR for Medical Sciences | 141 | 0 | 1 | 13 | 14 | 0 | 74 | 3 | 0 | 36 |
| U. AR, Little Rock | 366 | 12 | 1 | 10 | 44 | 0 | 134 | 1 | 4 | 160 |
| U. Central AR | 260 | 3 | 1 | 4 | 25 | 0 | 202 | 0 | 8 | 17 |
| Louisiana | 4,776 | 93 | 42 | 148 | 995 | 9 | 2,023 | 29 | 232 | 1,205 |
| Grambling State U. | 152 | 4 | 0 | 0 | 91 | 1 | 1 | 0 | 44 | 11 |
| LA State U. | 2,355 | 60 | 7 | 50 | 200 | 0 | 1,189 | 16 | 125 | 708 |
| LA Tech U. | 143 | 1 | 0 | 2 | 12 | 0 | 38 | 0 | 2 | 88 |
| Loyola U., New Orleans | 15 | 1 | 0 | 0 | 6 | 0 | 8 | 0 | 0 | 0 |
| McNeese State U. | 167 | 2 | 27 | 2 | 10 | 0 | 66 | 2 | 19 | 39 |
| Nicholls State U. | 133 | 1 | 1 | 1 | 39 | 1 | 84 | 0 | 4 | 2 |
| Northwestern State U. LA | 44 | 2 | 0 | 1 | 14 | 0 | 25 | 0 | 0 | 2 |
| Southeastern LA U. | 143 | 2 | 0 | 2 | 17 | 0 | 110 | 0 | 2 | 10 |
| Southern U. and A&M C. | 639 | 1 | 2 | 47 | 558 | 0 | 6 | 0 | 12 | 13 |
| Tulane U. | 486 | 16 | 3 | 32 | 23 | 1 | 254 | 7 | 13 | 137 |
| U. LA, Lafayette | 399 | 3 | 0 | 4 | 13 | 0 | 182 | 2 | 5 | 190 |
| U. LA, Monroe | 100 | 0 | 2 | 7 | 12 | 6 | 60 | 2 | 6 | 5 |
| Oklahoma | 4,364 | 96 | 188 | 114 | 217 | 12 | 2,384 | 29 | 345 | 979 |
| Cameron U. | 157 | 3 | 13 | 5 | 47 | 0 | 75 | 0 | 9 | 5 |
| Northeastern State U. | 230 | 6 | 56 | 0 | 11 | 0 | 150 | 0 | 1 | 6 |
| OK State U. | 1,465 | 29 | 36 | 20 | 43 | 9 | 798 | 4 | 0 | 526 |
| U. OK | 2,306 | 54 | 74 | 86 | 110 | 3 | 1,235 | 25 | 316 | 403 |
| U. Tulsa | 206 | 4 | 9 | 3 | 6 | 0 | 126 | 0 | 19 | 39 |
| Texas | 29,261 | 3,476 | 102 | 1,335 | 2,196 | 29 | 12,568 | 221 | 787 | 8,547 |
| Abilene Christian U. | 300 | 19 | 0 | 3 | 52 | 0 | 167 | 4 | 29 | 26 |
| Angelo State U. | 136 | 21 | 1 | 1 | 8 | 0 | 101 | 0 | 3 | 1 |
| Baylor C. of Medicine | 501 | 39 | 3 | 46 | 21 | 0 | 195 | 0 | 0 | 197 |
| Baylor U. | 472 | 25 | 0 | 20 | 7 | 1 | 297 | 10 | 6 | 106 |
| Lamar U. | 185 | 7 | 0 | 6 | 8 | 0 | 47 | 0 | 24 | 93 |
| Midwestern State U. | 106 | 3 | 1 | 3 | 10 | 0 | 63 | 0 | 2 | 24 |
| Prairie View A&M U. | 280 | 12 | 0 | 11 | 196 | 0 | 21 | 0 | 4 | 36 |
| Rice U. | 766 | 39 | 1 | 35 | 17 | 2 | 272 | 8 | 13 | 379 |
| Sam Houston State U. | 330 | 22 | 0 | 6 | 12 | 1 | 230 | 1 | 2 | 56 |

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| | | | Not Hispanic or Latino | | | | | | | |
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| Southern Methodist U. | 345 | 22 | 1 | 15 | 5 | 1 | 162 | 0 | 2 | 137 |
| St. Mary's U., San Antonio | 280 | 85 | 2 | 29 | 16 | 0 | 92 | 0 | 32 | 24 |
| Stephen F. Austin State U. | 480 | 22 | 9 | 5 | 53 | 0 | 349 | 0 | 3 | 39 |
| Sul Ross State U. | 145 | 65 | 1 | 0 | 4 | 0 | 59 | 1 | 14 | 1 |
| Tarleton State U. | 288 | 30 | 0 | 7 | 36 | 1 | 189 | 9 | 0 | 16 |
| TX A&M Health Science Ctr. | 164 | 1 | 0 | 9 | 2 | 0 | 74 | 0 | 0 | 78 |
| TX A&M U. | 4,040 | 307 | 7 | 149 | 112 | 7 | 1,825 | 13 | 249 | 1,371 |
| TX A&M U., Commerce | 395 | 11 | 2 | 2 | 17 | 0 | 125 | 0 | 0 | 238 |
| TX A&M U., Corpus Christi | 330 | 69 | 4 | 6 | 0 | 0 | 147 | 0 | 0 | 104 |
| TX A&M U., Kingsville | 358 | 106 | 2 | 2 | 9 | 0 | 108 | 0 | 4 | 127 |
| TX Christian U. | 140 | 7 | 0 | 4 | 0 | 0 | 93 | 1 | 3 | 32 |
| TX Southern U. | 621 | 19 | 0 | 35 | 541 | 0 | 17 | 0 | 9 | 0 |
| TX State U., San Marcos | 1,417 | 233 | 8 | 89 | 77 | 0 | 919 | 0 | 49 | 42 |
| TX Tech U. | 1,312 | 70 | 5 | 14 | 14 | 0 | 594 | 14 | 9 | 592 |
| TX Woman's U. | 738 | 74 | 5 | 39 | 114 | 0 | 422 | 0 | 5 | 79 |
| U. Houston | 1,565 | 99 | 2 | 90 | 73 | 2 | 511 | 15 | 8 | 765 |
| U. Houston, Clear Lake | 1,093 | 131 | 2 | 44 | 138 | 3 | 354 | 13 | 7 | 401 |
| U. Houston, Victoria | 273 | 50 | 0 | 26 | 61 | 0 | 110 | 3 | 2 | 21 |
| U. North TX, Denton | 1,643 | 158 | 7 | 51 | 100 | 0 | 895 | 44 | 21 | 367 |
| U. TX, Arlington | 1,463 | 144 | 6 | 61 | 171 | 2 | 642 | 17 | 25 | 395 |
| U. TX, Austin | 2,242 | 130 | 7 | 126 | 41 | 2 | 1,185 | 3 | 32 | 716 |
| U. TX, Dallas | 1,924 | 101 | 4 | 122 | 112 | 1 | 588 | 20 | 66 | 910 |
| U. TX, El Paso | 491 | 243 | 2 | 8 | 7 | 0 | 83 | 2 | 6 | 140 |
| U. TX, Health Science Ctr., Houston | 921 | 78 | 2 | 125 | 34 | 0 | 306 | 0 | 18 | 358 |
| U. TX, Health Science Ctr., San Antonio | 240 | 45 | 0 | 16 | 9 | 0 | 75 | 1 | 12 | 82 |
| U. TX, Medical Branch | 195 | 18 | 1 | 12 | 11 | 1 | 84 | 0 | 4 | 64 |
| U. TX, Pan American | 495 | 397 | 0 | 5 | 1 | 3 | 28 | 0 | 26 | 35 |
| U. TX, Permian Basin | 76 | 18 | 1 | 1 | 5 | 0 | 43 | 4 | 2 | 2 |
| U. TX, San Antonio | 1,330 | 403 | 2 | 50 | 57 | 2 | 466 | 34 | 48 | 268 |
| U. TX, Southwestern Medical Ctr., Dallas | 557 | 52 | 9 | 56 | 18 | 0 | 247 | 0 | 18 | 157 |
| U. TX, Tyler | 248 | 10 | 3 | 3 | 18 | 0 | 167 | 3 | 17 | 27 |
| U. of the Incarnate Word | 124 | 67 | 0 | 3 | 5 | 0 | 33 | 1 | 11 | 4 |
| Wayland Baptist U. | 5 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| West TX A&M U. | 247 | 22 | 2 | 0 | 4 | 0 | 180 | 0 | 2 | 37 |
| Mountain | 26,726 | 1,716 | 325 | 798 | 432 | 57 | 16,673 | 439 | 1,420 | 4,866 |
| Arizona | 6,314 | 477 | 94 | 212 | 140 | 6 | 3,514 | 129 | 180 | 1,562 |
| AZ State U. | 2,911 | 227 | 28 | 139 | 83 | 3 | 1,560 | 25 | 75 | 771 |
| Northern AZ U. | 598 | 44 | 22 | 11 | 6 | 1 | 457 | 9 | 15 | 33 |
| U. AZ | 2,805 | 206 | 44 | 62 | 51 | 2 | 1,497 | 95 | 90 | 758 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Colorado | 8,419 | 411 | 89 | 275 | 149 | 7 | 5,738 | 34 | 644 | 1,072 |
| CO School of Mines | 699 | 27 | 7 | 16 | 7 | 0 | 447 | 1 | 46 | 148 |
| CO State U., Ft. Collins | 1,964 | 97 | 27 | 47 | 22 | 2 | 1,326 | 0 | 181 | 262 |
| CO State U., Pueblo | 30 | 5 | 0 | 0 | 1 | 1 | 22 | 0 | 0 | 1 |
| U. CO | 4,072 | 204 | 39 | 157 | 78 | 0 | 2,811 | 14 | 256 | 513 |
| U. Denver | 1,428 | 66 | 15 | 49 | 32 | 3 | 973 | 15 | 158 | 117 |
| U. Northern CO | 226 | 12 | 1 | 6 | 9 | 1 | 159 | 4 | 3 | 31 |
| Idaho | 1,338 | 41 | 6 | 19 | 13 | 3 | 929 | 7 | 88 | 232 |
| Boise State U. | 257 | 5 | 0 | 3 | 1 | 0 | 209 | 2 | 18 | 19 |
| ID State U. | 353 | 11 | 1 | 3 | 4 | 0 | 239 | 0 | 44 | 51 |
| U. ID | 728 | 25 | 5 | 13 | 8 | 3 | 481 | 5 | 26 | 162 |
| Montana | 1,318 | 22 | 32 | 11 | 5 | 7 | 1,070 | 4 | 82 | 85 |
| MT State U. | 607 | 10 | 5 | 7 | 2 | 0 | 493 | 0 | 46 | 44 |
| MT Tech of U. MT | 38 | 0 | 1 | 1 | 1 | 0 | 31 | 0 | 1 | 3 |
| U. MT | 673 | 12 | 26 | 3 | 2 | 7 | 546 | 4 | 35 | 38 |
| Nevada | 1,770 | 111 | 5 | 81 | 50 | 6 | 950 | 190 | 91 | 286 |
| U. NV, Las Vegas | 876 | 75 | 3 | 30 | 42 | 4 | 357 | 185 | 43 | 137 |
| U. NV, Reno | 894 | 36 | 2 | 51 | 8 | 2 | 593 | 5 | 48 | 149 |
| New Mexico | 2,958 | 512 | 84 | 87 | 49 | 3 | 1,391 | 25 | 186 | 621 |
| Eastern NM U. | 134 | 28 | 2 | 1 | 4 | 0 | 78 | 4 | 3 | 14 |
| NM Highlands U. | 160 | 59 | 6 | 4 | 3 | 0 | 54 | 0 | 5 | 29 |
| NM Institute of Mining and Technology | 171 | 13 | 2 | 28 | 2 | 0 | 111 | 2 | 0 | 13 |
| NM State U. | 1,092 | 207 | 22 | 11 | 21 | 0 | 399 | 6 | 127 | 299 |
| U. NM | 1,401 | 205 | 52 | 43 | 19 | 3 | 749 | 13 | 51 | 266 |
| Utah | 3,788 | 130 | 12 | 100 | 22 | 25 | 2,585 | 48 | 73 | 793 |
| Brigham Young U. | 1,127 | 45 | 6 | 23 | 3 | 17 | 857 | 36 | 1 | 139 |
| U. UT | 1,769 | 52 | 4 | 55 | 12 | 6 | 1,100 | 9 | 36 | 495 |
| UT State U. | 892 | 33 | 2 | 22 | 7 | 2 | 628 | 3 | 36 | 159 |
| Wyoming | 821 | 12 | 3 | 13 | 4 | 0 | 496 | 2 | 76 | 215 |
| U. WY | 821 | 12 | 3 | 13 | 4 | 0 | 496 | 2 | 76 | 215 |
| Pacific[b] | 60,576 | 4,832 | 449 | 6,477 | 1,921 | 336 | 27,715 | 880 | 5,786 | 12,180 |
| Alaska | 957 | 19 | 58 | 17 | 12 | 0 | 647 | 40 | 74 | 90 |
| U. AK, Anchorage | 132 | 4 | 6 | 2 | 4 | 0 | 101 | 7 | 5 | 3 |
| U. AK, Fairbanks | 780 | 15 | 50 | 15 | 6 | 0 | 513 | 33 | 65 | 83 |
| U. AK, Southeast | 45 | 0 | 2 | 0 | 2 | 0 | 33 | 0 | 4 | 4 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| California[b] | 47,580 | 4,401 | 283 | 5,660 | 1,736 | 138 | 19,968 | 594 | 4,900 | 9,900 |
| Alliant International U. | 907 | 101 | 8 | 86 | 59 | 0 | 462 | 28 | 131 | 32 |
| Azusa Pacific U. | 339 | 41 | 0 | 40 | 18 | 1 | 152 | 1 | 74 | 12 |
| Biola U. | 48 | 2 | 0 | 9 | 1 | 0 | 30 | 0 | 0 | 6 |
| CA Institute of Integral Studies | 371 | 15 | 0 | 26 | 10 | 1 | 249 | 7 | 31 | 32 |
| CA Institute of Technology | 729 | 28 | 3 | 85 | 15 | 4 | 351 | 1 | 11 | 231 |
| CA Polytechnic State U., San Luis Obispo | 263 | 25 | 1 | 5 | 2 | 0 | 170 | 11 | 40 | 9 |
| CA State Polytechnic U., Pomona | 502 | 86 | 2 | 99 | 19 | 2 | 140 | 14 | 80 | 60 |
| CA State U., Bakersfield | 186 | 62 | 5 | 12 | 14 | 1 | 64 | 4 | 19 | 5 |
| CA State U., Chico | 342 | 34 | 1 | 13 | 4 | 1 | 216 | 10 | 34 | 29 |
| CA State U., Dominguez Hills | 317 | 82 | 0 | 20 | 108 | 1 | 46 | 7 | 39 | 14 |
| CA State U., East Bay | 515 | 19 | 2 | 113 | 15 | 1 | 114 | 7 | 52 | 192 |
| CA State U., Fresno | 272 | 68 | 1 | 32 | 4 | 1 | 112 | 0 | 25 | 29 |
| CA State U., Fullerton | 1,144 | 156 | 4 | 189 | 29 | 0 | 427 | 33 | 129 | 177 |
| CA State U., Long Beach | 1,148 | 151 | 9 | 204 | 43 | 8 | 381 | 28 | 149 | 175 |
| CA State U., Los Angeles | 909 | 262 | 2 | 134 | 43 | 1 | 190 | 0 | 128 | 149 |
| CA State U., Northridge | 891 | 120 | 4 | 106 | 40 | 9 | 372 | 21 | 129 | 90 |
| CA State U., Sacramento | 697 | 63 | 10 | 69 | 25 | 0 | 354 | 18 | 54 | 104 |
| CA State U., San Bernardino | 358 | 80 | 2 | 23 | 23 | 0 | 145 | 7 | 38 | 40 |
| CA State U., Stanislaus | 231 | 52 | 3 | 18 | 6 | 1 | 94 | 17 | 37 | 3 |
| Chapman U. | 220 | 33 | 1 | 35 | 6 | 1 | 103 | 2 | 20 | 19 |
| Claremont Graduate U. | 778 | 58 | 2 | 79 | 31 | 6 | 340 | 15 | 55 | 192 |
| Dominican U. CA | 108 | 13 | 1 | 2 | 3 | 0 | 63 | 2 | 19 | 5 |
| Fielding Graduate U. | 1,056 | 66 | 13 | 37 | 99 | 0 | 686 | 23 | 53 | 79 |
| Frederick S. Pardee RAND Graduate School | 103 | 0 | 0 | 16 | 1 | 0 | 56 | 0 | 0 | 30 |
| Fuller Theological Seminary | 253 | 15 | 1 | 43 | 21 | 0 | 148 | 0 | 23 | 2 |
| Golden Gate U. | 267 | 23 | 0 | 29 | 43 | 5 | 79 | 7 | 57 | 24 |
| Humboldt State U. | 290 | 14 | 5 | 8 | 2 | 0 | 200 | 11 | 40 | 10 |
| Loma Linda U. | 294 | 31 | 1 | 38 | 32 | 0 | 113 | 0 | 46 | 33 |
| Loyola Marymount U. | 109 | 17 | 1 | 14 | 5 | 0 | 63 | 5 | 0 | 4 |
| National U. | 931 | 184 | 2 | 65 | 111 | 5 | 370 | 13 | 91 | 90 |
| Naval Postgraduate School | 1,052 | 64 | 7 | 72 | 60 | 0 | 693 | 0 | 55 | 101 |
| Occidental C. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Pacific States U. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Palo Alto U. | 428 | 32 | 3 | 69 | 16 | 2 | 202 | 13 | 75 | 16 |
| Pepperdine U. | 1,002 | 103 | 6 | 72 | 78 | 4 | 423 | 4 | 290 | 22 |
| San Diego State U. | 1,392 | 128 | 6 | 106 | 22 | 29 | 568 | 14 | 109 | 410 |
| San Francisco State U. | 1,229 | 147 | 5 | 175 | 61 | 4 | 510 | 57 | 143 | 127 |
| San Jose State U. | 1,604 | 155 | 4 | 194 | 32 | 0 | 397 | 39 | 198 | 585 |
| Santa Clara U. | 466 | 36 | 1 | 74 | 8 | 1 | 159 | 5 | 43 | 139 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| Field | Total | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| | | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Sonoma State U. | 20 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 17 | 1 |
| Stanford U. | 2,705 | 118 | 19 | 381 | 52 | 6 | 1,058 | 17 | 211 | 843 |
| U. CA, Berkeley | 3,308 | 226 | 42 | 394 | 94 | 9 | 1,524 | 0 | 386 | 633 |
| U. CA, Davis | 2,909 | 170 | 38 | 344 | 45 | 6 | 1,454 | 0 | 284 | 568 |
| U. CA, Irvine | 2,198 | 168 | 4 | 343 | 33 | 4 | 944 | 33 | 182 | 487 |
| U. CA, Los Angeles | 3,079 | 232 | 12 | 467 | 83 | 7 | 1,295 | 28 | 216 | 739 |
| U. CA, San Diego | 2,317 | 132 | 18 | 368 | 35 | 3 | 1,175 | 12 | 142 | 432 |
| U. CA, San Francisco | 437 | 46 | 3 | 64 | 11 | 0 | 202 | 0 | 87 | 24 |
| U. CA, Santa Barbara | 1,584 | 107 | 6 | 123 | 25 | 0 | 777 | 0 | 260 | 286 |
| U. CA, Santa Cruz | 1,026 | 110 | 3 | 75 | 18 | 4 | 516 | 17 | 132 | 151 |
| U. La Verne | 413 | 141 | 0 | 35 | 60 | 0 | 99 | 0 | 71 | 7 |
| U. San Diego | 71 | 7 | 2 | 0 | 2 | 0 | 41 | 3 | 5 | 11 |
| U. San Francisco | 385 | 18 | 0 | 49 | 4 | 1 | 114 | 11 | 18 | 170 |
| U. Southern CA | 4,068 | 286 | 15 | 473 | 128 | 4 | 1,063 | 46 | 204 | 1,849 |
| U. of the Pacific | 66 | 2 | 0 | 13 | 3 | 0 | 32 | 3 | 5 | 8 |
| Hawaii | 1,803 | 43 | 8 | 214 | 13 | 170 | 692 | 121 | 13 | 529 |
| U. HI, Manoa | 1,803 | 43 | 8 | 214 | 13 | 170 | 692 | 121 | 13 | 529 |
| Oregon | 3,897 | 126 | 41 | 158 | 47 | 6 | 2,544 | 40 | 303 | 632 |
| OR Health and Science U. | 365 | 11 | 4 | 26 | 4 | 2 | 254 | 1 | 16 | 47 |
| OR State U. | 1,487 | 56 | 20 | 58 | 9 | 0 | 927 | 19 | 85 | 313 |
| Portland State U. | 1,218 | 30 | 11 | 43 | 23 | 3 | 829 | 17 | 97 | 165 |
| Southern OR U. | 49 | 5 | 0 | 4 | 1 | 1 | 37 | 0 | 0 | 1 |
| U. OR | 778 | 24 | 6 | 27 | 10 | 0 | 497 | 3 | 105 | 106 |
| Washington | 6,339 | 243 | 59 | 428 | 113 | 22 | 3,864 | 85 | 496 | 1,029 |
| Central WA U. | 228 | 8 | 7 | 4 | 4 | 0 | 137 | 9 | 54 | 5 |
| Eastern WA U. | 285 | 15 | 5 | 9 | 8 | 1 | 203 | 1 | 31 | 12 |
| Seattle U. | 326 | 23 | 6 | 29 | 15 | 3 | 192 | 7 | 44 | 7 |
| U. WA | 4,087 | 159 | 33 | 349 | 69 | 7 | 2,452 | 57 | 278 | 683 |
| Walla Walla U. | 29 | 2 | 1 | 1 | 0 | 0 | 23 | 0 | 0 | 2 |
| WA State U. | 1,196 | 32 | 5 | 31 | 15 | 8 | 707 | 6 | 74 | 318 |
| Western WA U. | 188 | 4 | 2 | 5 | 2 | 3 | 150 | 5 | 15 | 2 |
| Outlying Areas | 2,607 | 2,231 | 0 | 17 | 1 | 76 | 20 | 1 | 2 | 259 |
| Guam | 122 | 1 | 0 | 17 | 1 | 76 | 15 | 1 | 2 | 9 |
| U. GU | 122 | 1 | 0 | 17 | 1 | 76 | 15 | 1 | 2 | 9 |
| Puerto Rico | 2,485 | 2,230 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 250 |
| Carlos Albizu U. | 257 | 257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ponce School of Medicine | 35 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Pontifical Catholic U. PR | 767 | 767 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Universidad Central del Caribe | 23 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. PR, Mayaguez | 474 | 345 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 |
| U. PR, Medical Sciences Campus | 234 | 234 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. PR, Rio Piedras | 695 | 570 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 120 |

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; institutions are not listed separately.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All institutions[b] | 149,241 | 5,640 | 329 | 10,270 | 4,180 | 174 | 52,870 | 1,002 | 7,830 | 66,946 |
| New England | 10,559 | 275 | 18 | 716 | 167 | 5 | 3,724 | 61 | 906 | 4,687 |
| Connecticut | 1,892 | 38 | 0 | 112 | 35 | 0 | 518 | 6 | 99 | 1,084 |
| Rensselaer Polytechnic U., Hartford | 247 | 13 | 0 | 29 | 6 | 0 | 172 | 0 | 27 | 0 |
| U. Bridgeport | 650 | 3 | 0 | 10 | 4 | 0 | 9 | 3 | 0 | 621 |
| U. CT | 575 | 16 | 0 | 37 | 12 | 0 | 230 | 3 | 13 | 264 |
| U. Hartford | 110 | 6 | 0 | 19 | 5 | 0 | 43 | 0 | 25 | 12 |
| U. New Haven | 140 | 0 | 0 | 4 | 7 | 0 | 20 | 0 | 11 | 98 |
| Yale U. | 170 | 0 | 0 | 13 | 1 | 0 | 44 | 0 | 23 | 89 |
| Maine | 171 | 0 | 0 | 4 | 1 | 2 | 97 | 1 | 12 | 54 |
| U. ME | 171 | 0 | 0 | 4 | 1 | 2 | 97 | 1 | 12 | 54 |
| Massachusetts | 7,593 | 218 | 16 | 558 | 120 | 3 | 2,652 | 48 | 754 | 3,224 |
| Boston U. | 638 | 18 | 2 | 56 | 5 | 0 | 241 | 5 | 43 | 268 |
| Harvard U. | 183 | 5 | 0 | 24 | 4 | 0 | 56 | 2 | 8 | 84 |
| MA Institute of Technology | 2,762 | 106 | 9 | 290 | 47 | 0 | 903 | 30 | 222 | 1,155 |
| Northeastern U. | 1,314 | 14 | 0 | 38 | 15 | 0 | 211 | 1 | 252 | 783 |
| Tufts U. | 491 | 5 | 2 | 31 | 8 | 2 | 201 | 0 | 133 | 109 |
| U. MA, Amherst | 632 | 13 | 0 | 12 | 3 | 1 | 207 | 6 | 37 | 353 |
| U. MA, Boston | 22 | 1 | 1 | 0 | 2 | 0 | 9 | 0 | 4 | 5 |
| U. MA, Dartmouth | 172 | 4 | 1 | 4 | 2 | 0 | 66 | 0 | 8 | 87 |
| U. MA, Lowell | 545 | 23 | 0 | 46 | 16 | 0 | 255 | 1 | 30 | 174 |
| Western New England C. | 47 | 2 | 0 | 3 | 1 | 0 | 28 | 1 | 10 | 2 |
| Worcester Polytechnic Institute | 787 | 27 | 1 | 54 | 17 | 0 | 475 | 2 | 7 | 204 |
| New Hampshire | 394 | 5 | 2 | 11 | 3 | 0 | 186 | 5 | 27 | 155 |
| Dartmouth C. | 200 | 3 | 1 | 10 | 3 | 0 | 70 | 1 | 10 | 102 |
| U. NH | 194 | 2 | 1 | 1 | 0 | 0 | 116 | 4 | 17 | 53 |
| Rhode Island | 399 | 14 | 0 | 27 | 7 | 0 | 200 | 1 | 11 | 139 |
| Brown U. | 145 | 4 | 0 | 6 | 0 | 0 | 45 | 0 | 3 | 87 |
| U. RI | 254 | 10 | 0 | 21 | 7 | 0 | 155 | 1 | 8 | 52 |
| Vermont | 110 | 0 | 0 | 4 | 1 | 0 | 71 | 0 | 3 | 31 |
| U. VT | 110 | 0 | 0 | 4 | 1 | 0 | 71 | 0 | 3 | 31 |
| Middle Atlantic | 21,333 | 610 | 32 | 1,612 | 600 | 11 | 6,399 | 80 | 1,402 | 10,587 |
| New Jersey | 4,408 | 186 | 8 | 432 | 149 | 1 | 1,068 | 12 | 606 | 1,946 |
| Fairleigh Dickinson U. | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 43 |
| Monmouth U. | 27 | 3 | 0 | 4 | 1 | 0 | 13 | 1 | 2 | 3 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| NJ Institute of Technology | 1,138 | 76 | 3 | 144 | 72 | 0 | 234 | 0 | 74 | 535 |
| Princeton U. | 547 | 17 | 2 | 43 | 10 | 0 | 160 | 5 | 38 | 272 |
| Rutgers, State U. NJ | 782 | 22 | 1 | 56 | 20 | 1 | 226 | 6 | 23 | 427 |
| Stevens Institute of Technology | 1,855 | 68 | 2 | 185 | 46 | 0 | 427 | 0 | 462 | 665 |
| U. of Medicine and Dentistry of NJ | 9 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 1 |
| New York | 10,564 | 323 | 15 | 821 | 304 | 5 | 2,783 | 53 | 689 | 5,571 |
| Alfred U. | 50 | 0 | 0 | 2 | 1 | 0 | 28 | 0 | 5 | 14 |
| Clarkson U. | 204 | 1 | 1 | 3 | 0 | 0 | 85 | 5 | 0 | 109 |
| Columbia U. in the City of New York | 1,591 | 34 | 3 | 140 | 26 | 1 | 264 | 13 | 170 | 940 |
| Cooper Union for the Advancement of Science and Art | 82 | 2 | 1 | 22 | 2 | 0 | 34 | 0 | 5 | 16 |
| Cornell U. | 1,582 | 74 | 1 | 198 | 28 | 1 | 506 | 30 | 73 | 671 |
| CUNY, City C. | 615 | 63 | 0 | 98 | 68 | 1 | 146 | 1 | 4 | 234 |
| CUNY, Graduate Ctr. | 84 | 3 | 0 | 8 | 5 | 0 | 3 | 0 | 20 | 45 |
| Manhattan C. | 166 | 20 | 0 | 8 | 15 | 1 | 106 | 0 | 3 | 13 |
| NY Institute of Technology | 377 | 13 | 3 | 25 | 25 | 0 | 84 | 0 | 47 | 180 |
| Pace U. | 22 | 5 | 0 | 1 | 1 | 0 | 4 | 0 | 7 | 4 |
| Polytechnic Institute of NY U. | 1,262 | 40 | 1 | 113 | 75 | 0 | 210 | 0 | 119 | 704 |
| Rensselaer Polytechnic U., Troy | 603 | 15 | 0 | 19 | 6 | 1 | 206 | 2 | 38 | 316 |
| Rochester Institute of Technology | 403 | 7 | 1 | 8 | 5 | 0 | 127 | 0 | 28 | 227 |
| SUNY, Binghamton U. | 489 | 7 | 2 | 36 | 9 | 0 | 147 | 0 | 28 | 260 |
| SUNY, C. New Paltz | 97 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 1 | 87 |
| SUNY, C. of Environmental Science and Forestry | 94 | 1 | 0 | 2 | 1 | 0 | 51 | 0 | 0 | 39 |
| SUNY, Downstate Medical Ctr. | 14 | 0 | 0 | 2 | 2 | 0 | 8 | 0 | 0 | 2 |
| SUNY, Institute of Technology, Utica/Rome | 7 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| SUNY, Stony Brook U. | 458 | 8 | 0 | 46 | 6 | 0 | 76 | 0 | 14 | 308 |
| SUNY, U. Albany | 144 | 1 | 0 | 5 | 3 | 0 | 76 | 0 | 5 | 54 |
| SUNY, U. Buffalo | 1,059 | 12 | 1 | 31 | 11 | 0 | 268 | 0 | 55 | 681 |
| Syracuse U. | 787 | 15 | 0 | 31 | 13 | 0 | 195 | 1 | 28 | 504 |
| Union C., Schenectady | 98 | 1 | 1 | 2 | 0 | 0 | 55 | 0 | 37 | 2 |
| U. Rochester | 276 | 1 | 0 | 18 | 2 | 0 | 91 | 1 | 2 | 161 |
| Pennsylvania | 6,361 | 101 | 9 | 359 | 147 | 5 | 2,548 | 15 | 107 | 3,070 |
| Bucknell U. | 17 | 0 | 0 | 1 | 0 | 0 | 15 | 1 | 0 | 0 |
| Carnegie Mellon U. | 1,275 | 15 | 3 | 115 | 29 | 0 | 325 | 1 | 0 | 787 |
| Drexel U. | 630 | 14 | 0 | 41 | 29 | 0 | 292 | 0 | 29 | 225 |
| Gannon U. | 141 | 0 | 0 | 1 | 1 | 0 | 19 | 0 | 4 | 116 |
| Lehigh U. | 595 | 5 | 0 | 14 | 12 | 1 | 264 | 2 | 11 | 286 |
| PA State U. | 1,811 | 30 | 2 | 58 | 24 | 4 | 666 | 9 | 21 | 997 |
| Temple U. | 147 | 1 | 1 | 14 | 4 | 0 | 45 | 0 | 13 | 69 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. PA | 590 | 15 | 1 | 76 | 12 | 0 | 243 | 0 | 12 | 231 |
| U. Pittsburgh | 772 | 15 | 2 | 21 | 17 | 0 | 424 | 0 | 1 | 292 |
| Villanova U. | 319 | 6 | 0 | 17 | 12 | 0 | 220 | 1 | 12 | 51 |
| Widener U. | 36 | 0 | 0 | 0 | 7 | 0 | 17 | 0 | 3 | 9 |
| Wilkes U. | 28 | 0 | 0 | 1 | 0 | 0 | 18 | 1 | 1 | 7 |
| East North Central[b] | 25,037 | 518 | 34 | 1,221 | 511 | 16 | 8,981 | 136 | 1,473 | 12,147 |
| Illinois | 6,357 | 169 | 6 | 426 | 108 | 2 | 2,007 | 44 | 160 | 3,435 |
| Bradley U. | 161 | 2 | 2 | 1 | 1 | 0 | 35 | 0 | 3 | 117 |
| IL Institute of Technology | 1,330 | 17 | 1 | 50 | 17 | 0 | 222 | 5 | 83 | 935 |
| Northern IL U. | 239 | 2 | 0 | 31 | 6 | 1 | 88 | 1 | 1 | 109 |
| Northwestern U. | 915 | 35 | 1 | 88 | 10 | 0 | 342 | 7 | 29 | 403 |
| Southern IL U., Carbondale | 439 | 2 | 0 | 6 | 20 | 0 | 119 | 0 | 4 | 288 |
| Southern IL U., Edwardsville | 190 | 1 | 1 | 6 | 9 | 0 | 73 | 1 | 7 | 92 |
| U. IL, Chicago | 850 | 38 | 0 | 95 | 25 | 1 | 319 | 10 | 17 | 345 |
| U. IL, Urbana-Champaign | 2,233 | 72 | 1 | 149 | 20 | 0 | 809 | 20 | 16 | 1,146 |
| Indiana | 3,902 | 80 | 5 | 163 | 74 | 2 | 1,493 | 22 | 158 | 1,905 |
| Ball State U. | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 18 |
| IN U. | 141 | 3 | 0 | 6 | 3 | 0 | 46 | 0 | 7 | 76 |
| Purdue U. | 3,119 | 63 | 2 | 143 | 68 | 2 | 1,196 | 13 | 57 | 1,575 |
| Rose-Hulman Institute of Technology | 104 | 0 | 0 | 4 | 0 | 0 | 65 | 0 | 8 | 27 |
| U. Notre Dame | 450 | 14 | 3 | 10 | 3 | 0 | 186 | 9 | 16 | 209 |
| Michigan[b] | 5,887 | 134 | 8 | 350 | 177 | 1 | 2,126 | 41 | 212 | 2,838 |
| Andrews U. | 15 | 0 | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 2 |
| Central MI U. | 15 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 11 |
| Eastern MI U. | 144 | 4 | 1 | 5 | 7 | 0 | 79 | 0 | 15 | 33 |
| Grand Valley State U. | 53 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 3 | 7 |
| Lawrence Technological U. | 315 | 5 | 1 | 33 | 19 | 0 | 168 | 3 | 8 | 78 |
| MI State U. | 636 | 18 | 1 | 7 | 19 | 0 | 186 | 5 | 8 | 392 |
| MI Technological U. | 675 | 17 | 0 | 6 | 5 | 1 | 235 | 0 | 27 | 384 |
| Oakland U. | 286 | 3 | 2 | 34 | 6 | 0 | 144 | 0 | 14 | 83 |
| U. MI | 2,598 | 72 | 1 | 198 | 70 | 0 | 873 | 30 | 59 | 1,295 |
| Wayne State U. | 720 | 6 | 0 | 58 | 33 | 0 | 242 | 3 | 49 | 329 |
| Western MI U. | 234 | 4 | 0 | 5 | 7 | 0 | 73 | 0 | 3 | 142 |
| Ohio | 6,389 | 78 | 5 | 181 | 111 | 5 | 2,064 | 12 | 878 | 3,055 |
| Air Force Institute of Technology | 630 | 1 | 0 | 2 | 0 | 0 | 22 | 0 | 586 | 19 |
| Case Western Reserve U. | 552 | 7 | 3 | 40 | 11 | 0 | 184 | 1 | 22 | 284 |
| Cleveland State U. | 450 | 4 | 1 | 18 | 13 | 0 | 155 | 0 | 12 | 247 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Miami U. | 59 | 2 | 0 | 0 | 1 | 1 | 35 | 0 | 2 | 18 |
| OH State U. | 1,547 | 31 | 1 | 57 | 21 | 0 | 675 | 6 | 83 | 673 |
| OH U. | 264 | 5 | 0 | 1 | 2 | 0 | 84 | 3 | 11 | 158 |
| U. Akron | 457 | 2 | 0 | 9 | 3 | 1 | 168 | 1 | 7 | 266 |
| U. Cincinnati | 961 | 6 | 0 | 10 | 10 | 0 | 183 | 0 | 48 | 704 |
| U. Dayton | 518 | 10 | 0 | 15 | 29 | 0 | 215 | 1 | 58 | 190 |
| U. Toledo | 364 | 3 | 0 | 5 | 3 | 0 | 94 | 0 | 21 | 238 |
| Wright State U. | 533 | 7 | 0 | 22 | 17 | 3 | 221 | 0 | 26 | 237 |
| Youngstown State U. | 54 | 0 | 0 | 2 | 1 | 0 | 28 | 0 | 2 | 21 |
| Wisconsin | 2,502 | 57 | 10 | 101 | 41 | 6 | 1,291 | 17 | 65 | 914 |
| Marquette U. | 198 | 1 | 1 | 6 | 4 | 1 | 111 | 0 | 2 | 72 |
| Milwaukee School of Engineering | 58 | 0 | 0 | 2 | 1 | 0 | 50 | 0 | 4 | 1 |
| U. WI, La Crosse | 47 | 0 | 0 | 1 | 0 | 0 | 13 | 1 | 2 | 30 |
| U. WI, Madison | 1,535 | 46 | 8 | 71 | 21 | 3 | 701 | 2 | 46 | 637 |
| U. WI, Milwaukee | 488 | 9 | 0 | 21 | 8 | 0 | 282 | 13 | 2 | 153 |
| U. WI, Platteville | 110 | 1 | 1 | 0 | 6 | 0 | 85 | 0 | 9 | 8 |
| U. WI, Stout | 66 | 0 | 0 | 0 | 1 | 2 | 49 | 1 | 0 | 13 |
| West North Central | 8,608 | 144 | 22 | 271 | 164 | 10 | 3,685 | 32 | 306 | 3,974 |
| Iowa | 1,515 | 20 | 4 | 34 | 38 | 2 | 620 | 0 | 51 | 746 |
| IA State U. | 1,129 | 17 | 4 | 26 | 27 | 0 | 458 | 0 | 43 | 554 |
| U. IA | 340 | 3 | 0 | 8 | 11 | 2 | 136 | 0 | 8 | 172 |
| U. Northern IA | 46 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 20 |
| Kansas | 1,767 | 38 | 8 | 70 | 23 | 3 | 803 | 13 | 51 | 758 |
| KS State U. | 474 | 11 | 1 | 11 | 11 | 2 | 253 | 2 | 5 | 178 |
| Pittsburg State U. | 63 | 0 | 0 | 1 | 0 | 0 | 32 | 0 | 13 | 17 |
| U. KS | 610 | 18 | 4 | 11 | 7 | 1 | 372 | 10 | 14 | 173 |
| Wichita State U. | 620 | 9 | 3 | 47 | 5 | 0 | 146 | 1 | 19 | 390 |
| Minnesota | 1,834 | 30 | 2 | 67 | 38 | 4 | 818 | 11 | 86 | 778 |
| Bemidji State U. | 14 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 2 |
| Mayo Graduate School | 30 | 3 | 0 | 0 | 2 | 0 | 13 | 0 | 1 | 11 |
| MN State U., Mankato | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 |
| St. Cloud State U. | 120 | 2 | 0 | 6 | 0 | 1 | 12 | 0 | 1 | 98 |
| U. MN | 1,530 | 21 | 2 | 58 | 20 | 3 | 733 | 10 | 19 | 664 |
| Walden U. | 89 | 4 | 0 | 3 | 16 | 0 | 48 | 1 | 14 | 3 |
| Missouri | 2,165 | 39 | 3 | 66 | 43 | 1 | 881 | 6 | 80 | 1,046 |
| MO State U. | 11 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 4 |
| MO U. of Science and Technology | 1,020 | 20 | 3 | 22 | 28 | 1 | 443 | 1 | 52 | 450 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| St. Louis U. | 22 | 0 | 0 | 1 | 0 | 0 | 15 | 0 | 0 | 6 |
| U. Central MO | 71 | 2 | 0 | 6 | 4 | 0 | 35 | 0 | 4 | 20 |
| U. MO, Columbia | 485 | 10 | 0 | 12 | 7 | 0 | 182 | 2 | 7 | 265 |
| U. MO, Kansas City | 225 | 3 | 0 | 7 | 2 | 0 | 46 | 1 | 10 | 156 |
| Washington U., St. Louis | 331 | 4 | 0 | 18 | 2 | 0 | 154 | 2 | 6 | 145 |
| Nebraska | 525 | 5 | 0 | 15 | 12 | 0 | 207 | 1 | 8 | 277 |
| U. NE, Lincoln | 525 | 5 | 0 | 15 | 12 | 0 | 207 | 1 | 8 | 277 |
| North Dakota | 462 | 8 | 3 | 18 | 8 | 0 | 198 | 1 | 28 | 198 |
| ND State U. | 343 | 5 | 3 | 12 | 4 | 0 | 138 | 1 | 23 | 157 |
| U. ND | 119 | 3 | 0 | 6 | 4 | 0 | 60 | 0 | 5 | 41 |
| South Dakota | 340 | 4 | 2 | 1 | 2 | 0 | 158 | 0 | 2 | 171 |
| SD School of Mines and Technology | 165 | 4 | 0 | 0 | 1 | 0 | 89 | 0 | 1 | 70 |
| SD State U. | 166 | 0 | 2 | 1 | 1 | 0 | 63 | 0 | 0 | 99 |
| U. SD | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 2 |
| South Atlantic | 26,330 | 1,072 | 44 | 1,557 | 1,362 | 12 | 10,254 | 186 | 1,077 | 10,766 |
| Delaware | 516 | 3 | 1 | 12 | 10 | 0 | 212 | 1 | 3 | 274 |
| U. DE | 516 | 3 | 1 | 12 | 10 | 0 | 212 | 1 | 3 | 274 |
| District of Columbia | 1,495 | 63 | 7 | 98 | 131 | 2 | 562 | 1 | 366 | 265 |
| Catholic U. America | 262 | 18 | 0 | 11 | 23 | 0 | 119 | 0 | 55 | 36 |
| George Washington U. | 1,187 | 44 | 7 | 87 | 97 | 2 | 442 | 1 | 311 | 196 |
| Howard U. | 46 | 1 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 33 |
| Florida | 6,793 | 570 | 11 | 308 | 308 | 3 | 2,235 | 23 | 179 | 3,156 |
| Embry-Riddle Aeronautical U. | 175 | 8 | 2 | 13 | 6 | 0 | 68 | 4 | 10 | 64 |
| FL A&M U. | 92 | 7 | 0 | 1 | 46 | 0 | 28 | 2 | 1 | 7 |
| FL Atlantic U. | 223 | 29 | 1 | 14 | 18 | 0 | 90 | 0 | 3 | 68 |
| FL Institute of Technology | 334 | 8 | 0 | 8 | 8 | 0 | 84 | 3 | 43 | 180 |
| FL International U. | 396 | 101 | 0 | 11 | 24 | 0 | 29 | 1 | 4 | 226 |
| FL State U. | 237 | 14 | 0 | 2 | 12 | 0 | 89 | 1 | 1 | 118 |
| U. Central FL | 1,114 | 108 | 1 | 62 | 56 | 1 | 474 | 8 | 22 | 382 |
| U. FL | 3,164 | 168 | 7 | 122 | 78 | 0 | 980 | 0 | 70 | 1,739 |
| U. Miami | 268 | 47 | 0 | 6 | 7 | 0 | 83 | 2 | 18 | 105 |
| U. South FL, Tampa | 790 | 80 | 0 | 69 | 53 | 2 | 310 | 2 | 7 | 267 |
| Georgia | 4,085 | 121 | 3 | 342 | 141 | 1 | 1,631 | 54 | 58 | 1,734 |
| GA Institute of Technology | 3,929 | 119 | 3 | 330 | 125 | 1 | 1,566 | 54 | 25 | 1,706 |
| Mercer U. | 113 | 2 | 0 | 12 | 12 | 0 | 54 | 0 | 33 | 0 |
| U. GA | 43 | 0 | 0 | 0 | 4 | 0 | 11 | 0 | 0 | 28 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Maryland | 3,118 | 89 | 2 | 288 | 236 | 1 | 1,099 | 35 | 113 | 1,255 |
| Johns Hopkins U. | 838 | 19 | 0 | 101 | 24 | 0 | 270 | 4 | 13 | 407 |
| Loyola U., MD | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Morgan State U. | 190 | 4 | 0 | 4 | 103 | 0 | 40 | 3 | 0 | 36 |
| U. MD, Baltimore County | 235 | 8 | 0 | 14 | 18 | 1 | 72 | 4 | 25 | 93 |
| U. MD, College Park | 1,854 | 58 | 2 | 169 | 91 | 0 | 716 | 24 | 75 | 719 |
| North Carolina | 3,862 | 73 | 8 | 209 | 299 | 3 | 1,692 | 13 | 52 | 1,513 |
| Appalachian State U. | 62 | 2 | 0 | 0 | 1 | 0 | 59 | 0 | 0 | 0 |
| Duke U. | 480 | 15 | 2 | 55 | 8 | 0 | 198 | 0 | 1 | 201 |
| East Carolina U. | 66 | 3 | 0 | 0 | 10 | 1 | 36 | 0 | 1 | 15 |
| NC Agricultural and Technical State U. | 341 | 1 | 0 | 25 | 180 | 1 | 37 | 0 | 1 | 96 |
| NC State U. | 2,334 | 40 | 4 | 104 | 72 | 1 | 1,076 | 10 | 38 | 989 |
| U. NC, Chapel Hill | 111 | 3 | 0 | 14 | 5 | 0 | 64 | 2 | 0 | 23 |
| U. NC, Charlotte | 432 | 9 | 2 | 10 | 22 | 0 | 194 | 1 | 11 | 183 |
| Wake Forest U. | 36 | 0 | 0 | 1 | 1 | 0 | 28 | 0 | 0 | 6 |
| South Carolina | 1,671 | 31 | 6 | 62 | 50 | 0 | 690 | 15 | 31 | 786 |
| Clemson U. | 1,164 | 15 | 6 | 33 | 33 | 0 | 499 | 13 | 31 | 534 |
| U. SC | 507 | 16 | 0 | 29 | 17 | 0 | 191 | 2 | 0 | 252 |
| Virginia | 4,205 | 112 | 5 | 230 | 178 | 2 | 1,904 | 40 | 266 | 1,468 |
| George Mason U. | 586 | 30 | 2 | 61 | 24 | 0 | 191 | 5 | 136 | 137 |
| Hampton U. | 29 | 1 | 0 | 0 | 20 | 0 | 5 | 3 | 0 | 0 |
| Old Dominion U. | 744 | 23 | 2 | 23 | 57 | 2 | 348 | 12 | 72 | 205 |
| U. VA | 539 | 9 | 1 | 32 | 15 | 0 | 287 | 6 | 5 | 184 |
| VA Commonwealth U. | 183 | 5 | 0 | 15 | 9 | 0 | 72 | 1 | 1 | 80 |
| VA Polytechnic Institute and State U. | 2,124 | 44 | 0 | 99 | 53 | 0 | 1,001 | 13 | 52 | 862 |
| West Virginia | 585 | 10 | 1 | 8 | 9 | 0 | 229 | 4 | 9 | 315 |
| Marshall U. | 43 | 3 | 0 | 1 | 1 | 0 | 33 | 0 | 3 | 2 |
| WV U. | 542 | 7 | 1 | 7 | 8 | 0 | 196 | 4 | 6 | 313 |
| East South Central | 5,614 | 92 | 13 | 188 | 319 | 3 | 2,858 | 16 | 101 | 2,024 |
| Alabama | 2,257 | 37 | 8 | 106 | 151 | 0 | 1,097 | 3 | 30 | 825 |
| Auburn U. | 911 | 9 | 3 | 22 | 40 | 0 | 383 | 0 | 7 | 447 |
| Tuskegee U. | 94 | 0 | 0 | 0 | 41 | 0 | 1 | 0 | 6 | 46 |
| U. AL, Birmingham | 181 | 11 | 0 | 53 | 23 | 0 | 84 | 0 | 4 | 6 |
| U. AL, Huntsville | 592 | 9 | 5 | 18 | 32 | 0 | 445 | 3 | 9 | 71 |
| U. AL, Tuscaloosa | 329 | 6 | 0 | 9 | 14 | 0 | 162 | 0 | 4 | 134 |
| U. South AL | 150 | 2 | 0 | 4 | 1 | 0 | 22 | 0 | 0 | 121 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Kentucky | 955 | 18 | 2 | 22 | 21 | 0 | 513 | 9 | 26 | 344 |
| U. KY | 453 | 11 | 2 | 4 | 5 | 0 | 207 | 4 | 22 | 198 |
| U. Louisville | 502 | 7 | 0 | 18 | 16 | 0 | 306 | 5 | 4 | 146 |
| Mississippi | 720 | 17 | 0 | 13 | 48 | 2 | 336 | 2 | 8 | 294 |
| Jackson State U. | 29 | 2 | 0 | 0 | 14 | 0 | 7 | 0 | 1 | 5 |
| MS State U. | 595 | 14 | 0 | 8 | 28 | 2 | 299 | 1 | 7 | 236 |
| U. MS | 96 | 1 | 0 | 5 | 6 | 0 | 30 | 1 | 0 | 53 |
| Tennessee | 1,682 | 20 | 3 | 47 | 99 | 1 | 912 | 2 | 37 | 561 |
| East TN State U. | 42 | 2 | 0 | 2 | 7 | 0 | 28 | 1 | 0 | 2 |
| TN State U. | 71 | 0 | 0 | 6 | 28 | 0 | 23 | 0 | 1 | 13 |
| TN Technological U. | 143 | 0 | 0 | 2 | 3 | 0 | 56 | 0 | 0 | 82 |
| U. Memphis | 164 | 0 | 0 | 5 | 12 | 1 | 77 | 0 | 2 | 67 |
| U. TN, Chattanooga | 75 | 3 | 0 | 3 | 6 | 0 | 23 | 0 | 22 | 18 |
| U. TN, Health Science Ctr. | 12 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 2 |
| U. TN, Knoxville | 811 | 12 | 3 | 18 | 27 | 0 | 488 | 1 | 12 | 250 |
| Vanderbilt U. | 364 | 2 | 0 | 11 | 16 | 0 | 208 | 0 | 0 | 127 |
| West South Central | 15,884 | 882 | 42 | 681 | 436 | 20 | 3,937 | 176 | 392 | 9,318 |
| Arkansas | 386 | 2 | 2 | 12 | 15 | 0 | 176 | 5 | 1 | 173 |
| U. AR, Fayetteville | 362 | 2 | 2 | 7 | 15 | 0 | 169 | 5 | 1 | 161 |
| U. AR, Little Rock | 24 | 0 | 0 | 5 | 0 | 0 | 7 | 0 | 0 | 12 |
| Louisiana | 1,410 | 31 | 2 | 25 | 57 | 2 | 341 | 0 | 35 | 917 |
| LA State U. | 807 | 25 | 2 | 19 | 23 | 2 | 217 | 0 | 32 | 487 |
| LA Tech U. | 286 | 3 | 0 | 0 | 9 | 0 | 58 | 0 | 0 | 216 |
| McNeese State U. | 74 | 2 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 61 |
| Southern U. and A&M C. | 36 | 0 | 0 | 4 | 24 | 0 | 8 | 0 | 0 | 0 |
| Tulane U. | 65 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 3 | 35 |
| U. LA, Lafayette | 142 | 1 | 0 | 2 | 1 | 0 | 20 | 0 | 0 | 118 |
| Oklahoma | 1,551 | 11 | 30 | 25 | 20 | 2 | 346 | 7 | 68 | 1,042 |
| Northeastern State U. | 20 | 0 | 6 | 1 | 0 | 0 | 11 | 0 | 0 | 2 |
| OK State U. | 655 | 4 | 8 | 4 | 3 | 1 | 114 | 2 | 0 | 519 |
| U. OK | 701 | 6 | 15 | 19 | 17 | 1 | 197 | 5 | 54 | 387 |
| U. Tulsa | 175 | 1 | 1 | 1 | 0 | 0 | 24 | 0 | 14 | 134 |
| Texas | 12,537 | 838 | 8 | 619 | 344 | 16 | 3,074 | 164 | 288 | 7,186 |
| Baylor U. | 28 | 1 | 0 | 2 | 3 | 0 | 14 | 1 | 0 | 7 |
| Lamar U. | 580 | 4 | 0 | 21 | 5 | 0 | 27 | 0 | 121 | 402 |
| Prairie View A&M U. | 80 | 2 | 1 | 11 | 31 | 0 | 4 | 0 | 1 | 30 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Rice U. | 363 | 20 | 0 | 27 | 4 | 5 | 111 | 3 | 23 | 170 |
| Southern Methodist U. | 566 | 48 | 1 | 54 | 33 | 2 | 312 | 1 | 0 | 115 |
| St. Mary's U., San Antonio | 75 | 17 | 0 | 10 | 3 | 0 | 8 | 0 | 16 | 21 |
| TX A&M U. | 3,119 | 145 | 2 | 53 | 47 | 2 | 680 | 137 | 9 | 2,044 |
| TX A&M U., Corpus Christi | 20 | 6 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| TX A&M U., Kingsville | 269 | 14 | 0 | 1 | 2 | 0 | 9 | 0 | 0 | 243 |
| TX Southern U. | 132 | 4 | 0 | 31 | 86 | 0 | 9 | 0 | 2 | 0 |
| TX State U., San Marcos | 22 | 1 | 0 | 2 | 4 | 0 | 12 | 0 | 1 | 2 |
| TX Tech U. | 759 | 52 | 1 | 10 | 7 | 0 | 279 | 3 | 5 | 402 |
| U. Houston | 918 | 49 | 1 | 75 | 21 | 0 | 191 | 5 | 3 | 573 |
| U. Houston, Clear Lake | 141 | 10 | 0 | 7 | 9 | 0 | 32 | 2 | 2 | 79 |
| U. North TX, Denton | 153 | 2 | 0 | 8 | 8 | 0 | 17 | 0 | 1 | 117 |
| U. TX, Arlington | 1,276 | 37 | 0 | 73 | 38 | 1 | 235 | 3 | 5 | 884 |
| U. TX, Austin | 2,125 | 77 | 1 | 134 | 13 | 5 | 781 | 1 | 10 | 1,103 |
| U. TX, Dallas | 757 | 26 | 0 | 68 | 12 | 0 | 121 | 2 | 19 | 509 |
| U. TX, El Paso | 416 | 171 | 1 | 7 | 3 | 0 | 21 | 0 | 1 | 212 |
| U. TX, Health Science Ctr., San Antonio | 38 | 1 | 0 | 2 | 0 | 0 | 9 | 0 | 21 | 5 |
| U. TX, Pan American | 100 | 52 | 0 | 1 | 1 | 0 | 7 | 0 | 6 | 33 |
| U. TX, San Antonio | 506 | 96 | 0 | 18 | 12 | 0 | 147 | 6 | 39 | 188 |
| U. TX, Southwestern Medical Ctr., Dallas | 22 | 0 | 0 | 2 | 0 | 0 | 7 | 0 | 0 | 13 |
| U. TX, Tyler | 54 | 1 | 0 | 2 | 2 | 0 | 17 | 0 | 2 | 30 |
| West TX A&M U. | 18 | 2 | 0 | 0 | 0 | 1 | 10 | 0 | 1 | 4 |
| Mountain | 10,779 | 630 | 65 | 449 | 152 | 14 | 5,359 | 122 | 476 | 3,512 |
| Arizona | 2,870 | 193 | 16 | 141 | 58 | 2 | 1,032 | 36 | 128 | 1,264 |
| AZ State U. | 2,088 | 140 | 11 | 112 | 39 | 2 | 759 | 10 | 91 | 924 |
| Northern AZ U. | 34 | 3 | 2 | 0 | 0 | 0 | 21 | 1 | 0 | 7 |
| U. AZ | 748 | 50 | 3 | 29 | 19 | 0 | 252 | 25 | 37 | 333 |
| Colorado | 3,398 | 130 | 11 | 138 | 44 | 5 | 1,929 | 11 | 181 | 949 |
| CO School of Mines | 522 | 17 | 3 | 15 | 3 | 1 | 275 | 1 | 24 | 183 |
| CO State U., Ft. Collins | 563 | 18 | 1 | 15 | 4 | 3 | 311 | 0 | 23 | 188 |
| CO State U., Pueblo | 20 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 14 |
| U. CO | 2,087 | 81 | 7 | 101 | 33 | 1 | 1,215 | 9 | 112 | 528 |
| U. Denver | 206 | 13 | 0 | 7 | 4 | 0 | 123 | 1 | 22 | 36 |
| Idaho | 784 | 34 | 4 | 25 | 11 | 0 | 513 | 10 | 35 | 152 |
| Boise State U. | 146 | 4 | 0 | 10 | 4 | 0 | 95 | 0 | 6 | 27 |
| ID State U. | 97 | 1 | 0 | 2 | 2 | 0 | 46 | 0 | 10 | 36 |
| U. ID | 541 | 29 | 4 | 13 | 5 | 0 | 372 | 10 | 19 | 89 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Montana | 282 | 5 | 4 | 8 | 1 | 0 | 209 | 0 | 32 | 23 |
| MT State U. | 223 | 4 | 2 | 8 | 0 | 0 | 158 | 0 | 32 | 19 |
| MT Tech of U. MT | 59 | 1 | 2 | 0 | 1 | 0 | 51 | 0 | 0 | 4 |
| Nevada | 468 | 14 | 4 | 31 | 10 | 2 | 162 | 46 | 18 | 181 |
| U. NV, Las Vegas | 239 | 12 | 1 | 12 | 5 | 1 | 77 | 44 | 7 | 80 |
| U. NV, Reno | 229 | 2 | 3 | 19 | 5 | 1 | 85 | 2 | 11 | 101 |
| New Mexico | 1,135 | 205 | 25 | 46 | 26 | 1 | 408 | 7 | 64 | 353 |
| NM Institute of Mining and Technology | 129 | 18 | 2 | 22 | 15 | 0 | 57 | 2 | 2 | 11 |
| NM State U. | 435 | 86 | 3 | 5 | 7 | 0 | 91 | 2 | 30 | 211 |
| U. NM | 571 | 101 | 20 | 19 | 4 | 1 | 260 | 3 | 32 | 131 |
| Utah | 1,624 | 47 | 1 | 58 | 2 | 4 | 1,009 | 12 | 13 | 478 |
| Brigham Young U. | 376 | 14 | 1 | 3 | 0 | 1 | 289 | 2 | 1 | 65 |
| U. UT | 899 | 27 | 0 | 32 | 1 | 3 | 535 | 9 | 3 | 289 |
| UT State U. | 349 | 6 | 0 | 23 | 1 | 0 | 185 | 1 | 9 | 124 |
| Wyoming | 218 | 2 | 0 | 2 | 0 | 0 | 97 | 0 | 5 | 112 |
| U. WY | 218 | 2 | 0 | 2 | 0 | 0 | 97 | 0 | 5 | 112 |
| Pacific[b] | 24,727 | 1,151 | 59 | 3,575 | 469 | 83 | 7,673 | 193 | 1,697 | 9,827 |
| Alaska | 171 | 1 | 3 | 4 | 4 | 0 | 91 | 3 | 11 | 54 |
| U. AK, Anchorage | 69 | 1 | 3 | 3 | 1 | 0 | 50 | 0 | 6 | 5 |
| U. AK, Fairbanks | 102 | 0 | 0 | 1 | 3 | 0 | 41 | 3 | 5 | 49 |
| California[b] | 21,053 | 1,059 | 47 | 3,242 | 412 | 54 | 6,008 | 131 | 1,499 | 8,601 |
| CA Institute of Technology | 479 | 19 | 1 | 42 | 3 | 2 | 186 | 0 | 5 | 221 |
| CA Polytechnic State U., San Luis Obispo | 358 | 32 | 2 | 68 | 6 | 0 | 196 | 5 | 36 | 13 |
| CA State Polytechnic U., Pomona | 363 | 48 | 2 | 91 | 4 | 0 | 120 | 12 | 45 | 41 |
| CA State U., Chico | 22 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 16 |
| CA State U., East Bay | 46 | 5 | 0 | 9 | 2 | 0 | 5 | 0 | 2 | 23 |
| CA State U., Fresno | 36 | 7 | 0 | 3 | 0 | 0 | 11 | 0 | 2 | 13 |
| CA State U., Fullerton | 497 | 36 | 0 | 135 | 10 | 0 | 110 | 7 | 47 | 152 |
| CA State U., Long Beach | 468 | 57 | 2 | 130 | 17 | 5 | 86 | 8 | 32 | 131 |
| CA State U., Los Angeles | 306 | 50 | 0 | 63 | 17 | 0 | 30 | 0 | 16 | 130 |
| CA State U., Northridge | 644 | 42 | 1 | 54 | 6 | 4 | 146 | 4 | 53 | 334 |
| CA State U., Sacramento | 283 | 17 | 0 | 33 | 10 | 7 | 61 | 0 | 12 | 143 |
| Humboldt State U. | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 2 | 0 |
| Loyola Marymount U. | 75 | 17 | 0 | 14 | 9 | 1 | 26 | 2 | 0 | 6 |
| National U. | 171 | 25 | 1 | 25 | 13 | 1 | 64 | 4 | 13 | 25 |
| Naval Postgraduate School | 1,473 | 87 | 6 | 100 | 84 | 0 | 976 | 0 | 76 | 144 |
| San Diego State U. | 320 | 28 | 0 | 21 | 6 | 12 | 68 | 4 | 20 | 161 |

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| San Francisco State U. | 59 | 5 | 0 | 11 | 1 | 0 | 6 | 0 | 9 | 27 |
| San Jose State U. | 1,228 | 53 | 1 | 183 | 17 | 1 | 135 | 10 | 149 | 679 |
| Santa Clara U. | 607 | 20 | 0 | 163 | 10 | 5 | 141 | 6 | 46 | 216 |
| Sonoma State U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Stanford U. | 3,237 | 105 | 11 | 461 | 59 | 4 | 856 | 0 | 332 | 1,409 |
| U. CA, Berkeley | 1,668 | 73 | 7 | 294 | 26 | 3 | 568 | 0 | 150 | 547 |
| U. CA, Davis | 795 | 30 | 3 | 131 | 14 | 4 | 290 | 0 | 50 | 273 |
| U. CA, Irvine | 712 | 26 | 2 | 136 | 2 | 1 | 127 | 7 | 57 | 354 |
| U. CA, Los Angeles | 1,576 | 61 | 0 | 371 | 26 | 2 | 425 | 19 | 113 | 559 |
| U. CA, San Diego | 1,089 | 35 | 3 | 203 | 2 | 1 | 301 | 13 | 40 | 491 |
| U. CA, San Francisco | 54 | 1 | 1 | 9 | 2 | 0 | 20 | 0 | 15 | 6 |
| U. CA, Santa Barbara | 533 | 17 | 2 | 58 | 4 | 0 | 199 | 0 | 44 | 209 |
| U. CA, Santa Cruz | 168 | 10 | 1 | 19 | 2 | 0 | 57 | 0 | 23 | 56 |
| U. Southern CA | 3,419 | 132 | 1 | 379 | 55 | 1 | 733 | 26 | 91 | 2,001 |
| U. of the Pacific | 35 | 6 | 0 | 8 | 1 | 0 | 13 | 3 | 1 | 3 |
| Hawaii | 243 | 4 | 0 | 64 | 1 | 22 | 50 | 22 | 1 | 79 |
| U. HI, Manoa | 243 | 4 | 0 | 64 | 1 | 22 | 50 | 22 | 1 | 79 |
| Oregon | 1,131 | 31 | 0 | 68 | 12 | 3 | 529 | 10 | 56 | 422 |
| OR Health and Science U. | 21 | 0 | 0 | 1 | 0 | 0 | 13 | 0 | 2 | 5 |
| OR State U. | 676 | 17 | 0 | 28 | 6 | 1 | 328 | 9 | 33 | 254 |
| Portland State U. | 428 | 14 | 0 | 39 | 6 | 2 | 188 | 1 | 20 | 158 |
| U. OR | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 |
| U. Portland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Washington | 2,129 | 56 | 9 | 197 | 40 | 4 | 995 | 27 | 130 | 671 |
| Central WA U. | 44 | 0 | 0 | 1 | 4 | 0 | 15 | 1 | 3 | 20 |
| St. Martin's U. | 17 | 0 | 0 | 5 | 0 | 0 | 7 | 0 | 1 | 4 |
| Seattle U. | 49 | 0 | 0 | 13 | 1 | 0 | 13 | 0 | 4 | 18 |
| U. WA | 1,515 | 51 | 8 | 173 | 30 | 1 | 764 | 26 | 108 | 354 |
| WA State U. | 504 | 5 | 1 | 5 | 5 | 3 | 196 | 0 | 14 | 275 |
| Outlying Areas | 370 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| Puerto Rico | 370 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| U. PR, Mayaguez | 370 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; institutions are not listed separately.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| – | All institutions[b] | 515,107 | 523,458 | 537,982 | 546,142 | 555,743 | 567,839 | 572,318 | 575,785 |
| 1 | Walden U. | 2,498 | 6,211 | 8,840 | 9,530 | 9,530 | 11,353 | 12,862 | 9,879 |
| 2 | U. Southern CA | 6,542 | 6,870 | 6,525 | 7,288 | 7,288 | 7,637 | 7,752 | 8,001 |
| 3 | U. FL | 6,740 | 6,918 | 7,311 | 7,443 | 7,633 | 7,919 | 7,496 | 7,759 |
| 4 | TX A&M U. | 5,650 | 5,728 | 5,887 | 6,146 | 6,146 | 6,584 | 6,927 | 7,301 |
| 5 | U. WA | 5,442 | 5,593 | 5,783 | 5,608 | 5,770 | 5,811 | 6,378 | 6,657 |
| 6 | U. CO | 6,157 | 5,371 | 5,467 | 5,557 | 5,614 | 6,068 | 6,460 | 6,577 |
| 7 | U. MI | 6,396 | 6,109 | 6,073 | 6,155 | 6,155 | 5,971 | 5,943 | 6,522 |
| 8 | Purdue U. | 4,395 | 4,661 | 4,828 | 4,827 | 4,859 | 5,269 | 5,508 | 6,340 |
| 9 | U. IL, Urbana-Champaign | 5,516 | 5,352 | 5,349 | 5,523 | 5,581 | 5,690 | 5,921 | 6,025 |
| 10 | U. MN | 7,343 | 6,817 | 6,732 | 6,674 | 6,852 | 6,957 | 6,925 | 5,970 |
| 11 | Stanford U. | 5,356 | 5,392 | 5,615 | 5,590 | 5,590 | 5,948 | 5,603 | 5,950 |
| 12 | U. WI, Madison | 5,377 | 5,259 | 5,085 | 5,133 | 5,133 | 5,477 | 5,743 | 5,814 |
| 13 | OH State U. | 5,058 | 5,112 | 4,830 | 5,367 | 5,391 | 5,501 | 5,578 | 5,775 |
| 14 | U. MD, College Park | 4,850 | 4,870 | 4,862 | 4,920 | 4,957 | 5,159 | 5,208 | 5,743 |
| 15 | GA Institute of Technology | 5,295 | 5,294 | 5,575 | 6,178 | 6,178 | 6,440 | 6,040 | 5,739 |
| 16 | U. CA, Berkeley | 5,785 | 5,781 | 5,768 | 5,811 | 5,811 | 5,459 | 5,490 | 5,462 |
| 17 | NC State U. | 4,130 | 4,202 | 4,178 | 4,927 | 4,927 | 5,126 | 5,399 | 5,361 |
| 18 | AZ State U. | 3,629 | 3,735 | 3,936 | 4,349 | 4,528 | 4,945 | 4,977 | 5,267 |
| 19 | U. CA, Los Angeles | 5,130 | 5,427 | 5,468 | 5,715 | 5,715 | 5,459 | 5,185 | 5,262 |
| 20 | Cornell U. | 4,040 | 4,096 | 4,167 | 4,349 | 4,393 | 4,591 | 4,853 | 5,148 |
| 21 | George Mason U. | 3,120 | 3,166 | 3,377 | 3,948 | 4,342 | 4,556 | 4,757 | 5,095 |
| 22 | Boston U. | 4,517 | 4,755 | 4,967 | 4,727 | 4,760 | 4,312 | 4,844 | 5,093 |
| 23 | PA State U. | 4,816 | 4,654 | 4,737 | 5,146 | 5,222 | 5,117 | 4,977 | 4,988 |
| 24 | George Washington U. | 6,157 | 6,265 | 5,991 | 5,103 | 5,118 | 5,484 | 4,850 | 4,910 |
| 25 | MA Institute of Technology[c] | 5,988 | 5,918 | 5,933 | 5,722 | 5,722 | 5,787 | 5,813 | 4,799 |
| 26 | U. TX, Austin | 4,308 | 4,340 | 4,384 | 4,471 | 4,683 | 4,643 | 4,819 | 4,759 |
| 27 | Harvard U. | 4,570 | 4,738 | 4,905 | 4,744 | 4,744 | 4,927 | 4,722 | 4,716 |
| 28 | U. IL, Chicago | 4,742 | 4,367 | 4,243 | 4,661 | 4,698 | 4,708 | 5,171 | 4,696 |
| 29 | VA Polytechnic Institute and State U. | 4,150 | 4,100 | 4,134 | 4,126 | 4,143 | 4,263 | 4,427 | 4,631 |
| 30 | Columbia U. in the City of New York | 3,634 | 3,995 | 4,154 | 4,268 | 4,268 | 4,325 | 4,196 | 4,600 |
| 31 | Johns Hopkins U. | 3,518 | 3,771 | 3,815 | 3,924 | 3,924 | 3,881 | 4,172 | 4,476 |
| 32 | U. South FL, Tampa | 2,895 | 3,176 | 3,233 | 3,353 | 3,511 | 3,688 | 3,853 | 4,134 |
| 33 | U. AZ | 3,310 | 3,289 | 3,137 | 3,866 | 3,935 | 3,864 | 3,909 | 4,111 |
| 34 | IN U. | 3,595 | 3,880 | 3,728 | 3,596 | 3,748 | 3,889 | 4,006 | 4,011 |
| 35 | U. NC, Chapel Hill | 3,378 | 3,551 | 3,455 | 3,329 | 3,380 | 3,763 | 3,580 | 3,875 |
| 36 | U. Pittsburgh | 3,820 | 3,877 | 3,915 | 3,522 | 3,522 | 3,718 | 3,922 | 3,795 |
| 37 | Rutgers, State U. NJ | 3,696 | 3,529 | 3,473 | 3,405 | 3,524 | 3,708 | 3,811 | 3,734 |
| 38 | U. CA, Davis | 3,519 | 3,572 | 3,563 | 3,604 | 3,614 | 3,568 | 3,687 | 3,718 |
| 39 | MI State U. | 2,990 | 2,987 | 3,053 | 3,081 | 3,264 | 3,490 | 3,432 | 3,599 |
| 40 | SUNY, U. Buffalo | 3,454 | 3,326 | 3,435 | 3,235 | 3,338 | 3,323 | 3,498 | 3,592 |
| 41 | LA State U.[d] | 3,283 | 2,371 | 2,869 | 3,020 | 3,166 | 3,281 | 3,566 | 3,489 |
| 42 | U. Central FL | 3,023 | 3,035 | 2,991 | 2,784 | 2,862 | 2,892 | 3,285 | 3,438 |
| 43 | IA State U. | 2,911 | 2,574 | 2,828 | 2,733 | 2,929 | 3,181 | 3,204 | 3,434 |
| 44 | U. CA, San Diego | 2,829 | 2,822 | 3,236 | 3,235 | 3,280 | 3,303 | 3,472 | 3,406 |
| 45 | Carnegie Mellon U. | 2,739 | 2,712 | 2,689 | 2,823 | 2,823 | 2,811 | 2,996 | 3,360 |
| 46 | U. Cincinnati | 2,659 | 3,467 | 3,272 | 3,197 | 3,197 | 3,085 | 3,295 | 3,245 |
| 47 | NY U. | 3,084 | 3,139 | 3,178 | 3,470 | 3,470 | 3,247 | 3,131 | 3,192 |
| 48 | U. OK | 2,591 | 2,604 | 2,505 | 2,638 | 2,731 | 2,819 | 2,693 | 3,185 |
| 49 | U. UT | 2,973 | 2,968 | 3,094 | 3,214 | 3,370 | 3,351 | 3,427 | 3,127 |
| 50 | Northwestern U. | 2,093 | 2,177 | 2,231 | 2,510 | 2,601 | 2,883 | 3,008 | 3,111 |
| 51 | TX Tech U. | 1,985 | 1,950 | 2,011 | 2,342 | 2,342 | 2,639 | 2,883 | 3,060 |
| 52 | Nova Southeastern U. | 3,246 | 3,297 | 3,287 | 3,263 | 3,263 | 3,468 | 2,996 | 3,056 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 53 | U. CT | 2,949 | 2,932 | 2,857 | 2,781 | 2,840 | 2,866 | 2,928 | 3,032 |
| 54 | U. WI, Milwaukee | 2,328 | 2,382 | 2,473 | 2,587 | 2,587 | 2,695 | 2,933 | 2,999 |
| 55 | U. CA, Irvine | 2,241 | 2,289 | 2,320 | 2,443 | 2,443 | 2,516 | 2,899 | 2,991 |
| 56 | U. TX, Dallas | 1,984 | 1,948 | 2,068 | 2,161 | 2,161 | 2,387 | 2,487 | 2,960 |
| 57 | FL State U. | 1,960 | 2,017 | 2,067 | 2,520 | 2,788 | 2,698 | 2,966 | 2,957 |
| 58 | Wayne State U. | 2,536 | 2,663 | 2,676 | 2,927 | 3,140 | 2,825 | 2,652 | 2,896 |
| 59 | CO State U., Ft. Collins | 2,640 | 2,639 | 2,617 | 2,635 | 2,678 | 2,632 | 2,678 | 2,870 |
| 60 | U. KS | 3,263 | 3,268 | 3,278 | 2,874 | 2,959 | 3,179 | 2,804 | 2,857 |
| 61 | U. TX, Arlington | 3,159 | 2,782 | 2,565 | 2,885 | 2,885 | 2,926 | 2,671 | 2,789 |
| 62 | Syracuse U. | 1,763 | 1,706 | 1,819 | 2,350 | 2,467 | 2,459 | 2,521 | 2,699 |
| 63 | OR State U. | 1,860 | 1,942 | 2,074 | 2,084 | 2,177 | 2,234 | 2,380 | 2,686 |
| 64 | U. TN, Knoxville | 2,963 | 3,021 | 2,996 | 2,652 | 2,922 | 3,053 | 2,688 | 2,673 |
| 65 | Georgetown U. | 1,099 | 1,146 | 2,599 | 2,606 | 2,798 | 2,832 | 2,941 | 2,671 |
| 66 | U. Houston | 2,044 | 2,101 | 2,062 | 2,098 | 2,098 | 2,187 | 2,427 | 2,657 |
| 67 | IL Institute of Technology | 1,403 | 1,276 | 2,145 | 2,443 | 2,444 | 2,630 | 2,606 | 2,629 |
| 68 | U. MA, Amherst | 2,232 | 2,198 | 2,316 | 2,409 | 2,483 | 2,489 | 2,441 | 2,594 |
| 69 | Northeastern U. | 1,854 | 1,972 | 2,172 | 2,266 | 2,266 | 2,125 | 2,195 | 2,544 |
| 70 | Naval Postgraduate School | 944 | 952 | 976 | 985 | 985 | 2,309 | 2,271 | 2,525 |
| 71 | SUNY, U. Albany | 2,371 | 2,431 | 2,565 | 2,548 | 2,616 | 2,595 | 2,569 | 2,515 |
| 72 | SUNY, Stony Brook U. | 3,124 | 3,021 | 3,527 | 3,279 | 3,279 | 2,186 | 2,336 | 2,494 |
| 73 | U. KY | 2,515 | 2,973 | 3,151 | 2,348 | 2,436 | 2,488 | 2,507 | 2,489 |
| 74 | Southern IL U., Carbondale | 1,723 | 1,819 | 1,824 | 1,901 | 1,901 | 2,248 | 2,421 | 2,444 |
| 75 | U. PA | 2,238 | 2,310 | 2,255 | 2,248 | 2,248 | 2,347 | 2,404 | 2,434 |
| 76 | Clemson U. | 1,763 | 1,698 | 1,657 | 1,713 | 1,713 | 1,885 | 2,134 | 2,386 |
| 77 | U. HI, Manoa | 2,108 | 2,092 | 2,058 | 2,036 | 2,036 | 2,273 | 2,333 | 2,367 |
| 78 | U. MO, Columbia | 1,991 | 2,056 | 2,067 | 2,120 | 2,560 | 2,230 | 2,186 | 2,324 |
| 79 | U. NE, Lincoln | 1,686 | 1,639 | 1,693 | 1,747 | 1,872 | 2,072 | 2,152 | 2,293 |
| 80 | U. Chicago | 1,388 | 1,658 | 1,835 | 1,780 | 1,780 | 2,173 | 2,182 | 2,292 |
| 81 | Auburn U. | 1,832 | 1,817 | 1,882 | 1,923 | 1,923 | 2,018 | 2,107 | 2,247 |
| 82 | Stevens Institute of Technology | 1,438 | 1,462 | 1,574 | 1,807 | 1,807 | 2,090 | 2,424 | 2,231 |
| 83 | Drexel U. | 2,883 | 3,233 | 3,233 | 2,539 | 2,544 | 1,798 | 2,185 | 2,223 |
| 84 | OK State U. | 1,644 | 1,550 | 1,578 | 1,869 | 1,971 | 2,057 | 2,115 | 2,190 |
| 85 | Old Dominion U. | 1,913 | 1,939 | 2,067 | 2,042 | 2,104 | 2,029 | 2,186 | 2,142 |
| 86 | American U., Washington, DC | 1,869 | 1,838 | 1,751 | 1,890 | 1,890 | 1,934 | 2,059 | 2,132 |
| 87 | San Diego State U. | 2,211 | 2,473 | 2,270 | 2,364 | 2,364 | 2,556 | 2,273 | 2,128 |
| 88 | U. CA, Santa Barbara | 1,972 | 2,006 | 1,928 | 2,006 | 2,031 | 2,032 | 1,994 | 2,117 |
| 89 | U. NM | 2,440 | 2,462 | 2,436 | 2,534 | 2,534 | 2,519 | 2,105 | 2,108 |
| 90 | U. GA | 2,070 | 2,035 | 1,992 | 2,093 | 2,093 | 2,220 | 2,119 | 2,093 |
| 91 | NJ Institute of Technology | 2,287 | 2,229 | 2,296 | 2,347 | 2,379 | 2,335 | 2,364 | 2,091 |
| 92 | KS State U. | 1,931 | 1,863 | 1,824 | 1,957 | 1,957 | 2,204 | 2,114 | 2,088 |
| 93 | Duke U. | 1,792 | 1,820 | 1,786 | 1,829 | 1,829 | 1,723 | 1,986 | 2,087 |
| 94 | U. DE | 1,835 | 1,904 | 1,961 | 1,795 | 1,861 | 1,887 | 2,073 | 2,086 |
| 95 | FL International U. | 2,035 | 2,097 | 2,454 | 2,643 | 2,754 | 2,658 | 2,398 | 2,084 |
| 96 | Temple U. | 2,602 | 2,326 | 2,253 | 1,814 | 1,873 | 2,109 | 2,192 | 2,083 |
| 97 | U. IA | 2,317 | 2,337 | 2,285 | 2,255 | 2,323 | 2,378 | 2,163 | 2,041 |
| 98 | Yale U. | 1,938 | 1,919 | 1,961 | 2,039 | 2,039 | 2,102 | 2,024 | 2,032 |
| 99 | Polytechnic Institute of NY U. | 737 | 843 | 954 | 1,201 | 1,201 | 1,566 | 1,805 | 1,973 |
| 100 | CUNY, Graduate Ctr. | 2,035 | 1,972 | 2,062 | 2,023 | 2,023 | 2,016 | 1,958 | 1,939 |
| 101 | U. TX, San Antonio | 588 | 1,089 | 1,139 | 1,444 | 1,478 | 1,484 | 1,643 | 1,939 |
| 102 | WV U. | 2,108 | 2,116 | 2,161 | 2,235 | 2,256 | 2,120 | 2,015 | 1,932 |
| 103 | U. VA | 2,082 | 2,087 | 2,077 | 2,124 | 2,124 | 2,143 | 2,071 | 1,931 |
| 104 | Princeton U. | 1,594 | 1,538 | 1,678 | 1,703 | 1,703 | 1,807 | 1,806 | 1,904 |
| 105 | MS State U. | 1,582 | 1,586 | 1,600 | 1,761 | 1,761 | 1,760 | 1,770 | 1,893 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 106 | VA Commonwealth U. | 2,074 | 1,944 | 2,020 | 2,175 | 2,175 | 2,193 | 2,312 | 1,886 |
| 107 | U. NC, Charlotte | 1,249 | 1,293 | 1,330 | 1,492 | 1,492 | 1,662 | 1,785 | 1,885 |
| 108 | WA State U. | 1,550 | 1,501 | 1,640 | 1,568 | 1,568 | 1,638 | 1,897 | 1,873 |
| 109 | U. North TX, Denton | 1,349 | 1,358 | 1,444 | 1,559 | 1,692 | 1,593 | 1,863 | 1,857 |
| 110 | Portland State U. | 1,547 | 1,824 | 1,809 | 1,819 | 1,956 | 2,017 | 2,142 | 1,846 |
| 111 | U. Akron | 1,367 | 1,376 | 1,393 | 1,454 | 1,513 | 1,639 | 1,790 | 1,829 |
| 112 | Tufts U. | 1,493 | 1,525 | 1,461 | 1,463 | 1,505 | 1,607 | 1,738 | 1,815 |
| 113 | U. TX, Health Science Ctr., Houston | 1,337 | 1,363 | 1,343 | 1,342 | 1,342 | 1,425 | 1,447 | 1,804 |
| 114 | OH U. | 965 | 1,042 | 1,042 | 1,583 | 1,583 | 1,648 | 1,907 | 1,789 |
| 115 | Case Western Reserve U. | 1,811 | 1,710 | 1,652 | 1,694 | 1,694 | 1,703 | 1,701 | 1,770 |
| 116 | U. SC | 1,558 | 1,486 | 1,652 | 1,829 | 1,829 | 1,778 | 1,896 | 1,770 |
| 117 | CA State U., Long Beach | 1,686 | 1,620 | 1,911 | 1,908 | 1,942 | 1,773 | 1,798 | 1,758 |
| 118 | NM State U. | 1,350 | 1,346 | 1,292 | 1,422 | 1,422 | 1,546 | 1,662 | 1,730 |
| 119 | Columbia U. in the City of New York, Teachers C. | 1,481 | 1,504 | 1,532 | 1,551 | 1,551 | 1,583 | 1,657 | 1,723 |
| 120 | U. MD, Baltimore County | 1,250 | 1,425 | 1,447 | 1,464 | 1,464 | 1,669 | 1,866 | 1,718 |
| 121 | Western MI U. | 1,583 | 1,367 | 1,440 | 1,332 | 1,522 | 1,728 | 1,539 | 1,703 |
| 122 | Vanderbilt U. | 1,409 | 1,467 | 1,452 | 1,504 | 1,504 | 1,583 | 1,552 | 1,677 |
| 123 | Brigham Young U. | 1,095 | 1,578 | 1,735 | 1,434 | 1,434 | 1,519 | 1,584 | 1,645 |
| 124 | SUNY, Binghamton U. | 1,318 | 1,275 | 1,455 | 1,488 | 1,488 | 1,525 | 1,579 | 1,644 |
| 125 | U. Denver | 901 | 937 | 1,218 | 1,291 | 1,382 | 1,367 | 1,866 | 1,634 |
| 126 | Washington U., St. Louis | 1,832 | 1,773 | 2,142 | 2,023 | 2,023 | 2,003 | 1,831 | 1,631 |
| 127 | U. MA, Lowell | 1,211 | 1,194 | 1,337 | 1,247 | 1,247 | 1,363 | 1,511 | 1,582 |
| 128 | U. CA, Riverside[e] | 1,194 | 1,239 | 1,258 | 1,384 | 1,384 | 1,476 | 1,504 | NA |
| 129 | U. AL, Birmingham | 2,405 | 2,413 | 2,322 | 2,238 | 2,238 | 2,032 | 1,606 | 1,567 |
| 130 | DePaul U. | 3,227 | 3,058 | 2,914 | 2,574 | 2,574 | 2,042 | 1,579 | 1,566 |
| 131 | Eastern MI U. | 970 | 1,021 | 1,112 | 1,184 | 1,310 | 1,414 | 1,479 | 1,543 |
| 132 | U. Louisville | 1,633 | 1,583 | 1,572 | 1,441 | 1,466 | 1,454 | 1,450 | 1,540 |
| 133 | TX State U., San Marcos | 974 | 938 | 911 | 1,132 | 1,274 | 1,327 | 1,449 | 1,521 |
| 134 | Wichita State U. | 1,514 | 1,409 | 1,429 | 1,460 | 1,543 | 1,475 | 1,630 | 1,509 |
| 135 | Antioch U. | 1,368 | 1,429 | 1,410 | 1,574 | 1,574 | 1,560 | 1,609 | 1,506 |
| 136 | U. NV, Las Vegas | 1,107 | 1,167 | 1,318 | 1,472 | 1,525 | 1,606 | 1,688 | 1,488 |
| 137 | GA State U. | 1,581 | 1,652 | 1,651 | 1,378 | 1,378 | 1,388 | 1,607 | 1,487 |
| 138 | Emory U. | 1,178 | 1,243 | 1,256 | 1,275 | 1,275 | 1,394 | 1,420 | 1,483 |
| 139 | New School | 1,247 | 1,285 | 1,290 | 1,342 | 1,342 | 1,383 | 1,454 | 1,483 |
| 140 | Rochester Institute of Technology | 733 | 714 | 744 | 848 | 848 | 1,408 | 1,287 | 1,433 |
| 141 | U. Rochester | 1,414 | 1,479 | 1,558 | 1,599 | 1,599 | 1,633 | 1,459 | 1,403 |
| 142 | Cleveland State U. | 1,425 | 1,381 | 1,381 | 1,456 | 1,456 | 1,569 | 1,228 | 1,374 |
| 143 | U. Miami | 1,285 | 1,323 | 1,414 | 1,360 | 1,360 | 1,207 | 1,303 | 1,370 |
| 144 | U. AR, Fayetteville | 1,571 | 1,578 | 1,652 | 1,701 | 1,701 | 1,761 | 1,785 | 1,336 |
| 145 | ND State U. | 1,076 | 1,073 | 908 | 1,018 | 1,094 | 1,135 | 1,231 | 1,327 |
| 146 | UT State U. | 1,258 | 1,307 | 1,223 | 1,294 | 1,294 | 1,315 | 1,353 | 1,327 |
| 147 | FL Atlantic U. | 1,284 | 1,315 | 1,345 | 1,371 | 1,493 | 1,514 | 1,544 | 1,322 |
| 148 | Tulane U.[d] | 2,169 | NA | 1,230 | 1,287 | 1,287 | 1,368 | 1,416 | 1,322 |
| 149 | Brown U. | 1,027 | 1,004 | 1,002 | 1,084 | 1,084 | 1,109 | 1,185 | 1,282 |
| 150 | U. ID | 1,254 | 1,211 | 1,051 | 1,024 | 1,024 | 1,075 | 1,173 | 1,269 |
| 151 | Northern IL U. | 1,504 | 1,560 | 1,590 | 1,607 | 1,607 | 1,663 | 1,404 | 1,266 |
| 152 | TX Woman's U. | 1,897 | 2,253 | 2,140 | 1,183 | 1,366 | 1,349 | 1,550 | 1,259 |
| 153 | Wright State U. | 1,375 | 1,384 | 1,315 | 1,360 | 1,360 | 1,361 | 1,419 | 1,248 |
| 154 | U. NV, Reno | 1,197 | 1,200 | 1,236 | 1,290 | 1,301 | 1,460 | 1,226 | 1,241 |
| 155 | Towson U. | 997 | 1,057 | 1,037 | 1,059 | 1,059 | 1,102 | 1,199 | 1,232 |
| 156 | MO U. of Science and Technology | 1,071 | 1,071 | 1,316 | 1,223 | 1,223 | 1,318 | 1,460 | 1,228 |
| 157 | CO School of Mines | 735 | 748 | 776 | 846 | 846 | 945 | 1,084 | 1,221 |
| 158 | U. Bridgeport | 631 | 616 | 897 | 1,477 | 1,477 | 1,809 | 1,405 | 1,209 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 159 | CA Institute of Technology | 1,288 | 1,268 | 1,239 | 1,221 | 1,221 | 1,215 | 1,179 | 1,208 |
| 160 | CUNY, City C. | 900 | 912 | 869 | 932 | 932 | 967 | 1,112 | 1,200 |
| 161 | U. CA, Santa Cruz | 983 | 995 | 992 | 1,003 | 1,003 | 1,118 | 1,162 | 1,194 |
| 162 | U. Notre Dame | 1,028 | 1,071 | 1,075 | 1,107 | 1,107 | 1,080 | 1,123 | 1,180 |
| 163 | East Carolina U. | 933 | 1,109 | 1,445 | 1,558 | 1,618 | 1,780 | 1,077 | 1,178 |
| 164 | U. RI | 1,220 | 1,265 | 1,175 | 1,050 | 1,050 | 1,071 | 1,134 | 1,158 |
| 165 | U. AL, Tuscaloosa | 1,017 | 909 | 889 | 910 | 910 | 930 | 1,078 | 1,157 |
| 166 | U. Toledo[f] | 908 | 898 | 789 | 1,548 | 1,548 | 1,485 | 1,106 | 1,157 |
| 167 | U. TX, El Paso | 1,130 | 988 | 1,101 | 1,076 | 1,076 | 930 | 972 | 1,150 |
| 168 | U. WY | 994 | 1,025 | 964 | 902 | 941 | 956 | 1,050 | 1,140 |
| 169 | Rice U. | 1,009 | 1,041 | 1,072 | 1,086 | 1,086 | 1,042 | 1,061 | 1,129 |
| 170 | Brandeis U. | 399 | 384 | 396 | 749 | 951 | 1,003 | 1,051 | 1,125 |
| 171 | Kent State U. | 966 | 936 | 966 | 984 | 1,017 | 1,045 | 1,399 | 1,114 |
| 172 | U. MO, Kansas City | 981 | 1,069 | 1,145 | 1,209 | 1,209 | 1,367 | 1,400 | 1,097 |
| 173 | Fairleigh Dickinson U. | 1,603 | 1,784 | 1,735 | 1,171 | 1,269 | 1,256 | 1,195 | 1,095 |
| 174 | Worcester Polytechnic Institute | 638 | 683 | 690 | 663 | 663 | 689 | 939 | 1,093 |
| 175 | CUNY, Queens C. | 211 | 666 | 709 | 698 | 698 | 775 | 1,047 | 1,090 |
| 176 | Santa Clara U.[e] | 765 | 785 | 785 | 747 | 747 | NA | 917 | 1,073 |
| 177 | Lehigh U. | 803 | 816 | 808 | 861 | 861 | 878 | 1,029 | 1,067 |
| 178 | Fielding Graduate U. | 1,057 | 629 | 611 | 936 | 1,020 | 1,076 | 1,096 | 1,056 |
| 179 | MI Technological U. | 746 | 738 | 753 | 759 | 759 | 813 | 924 | 1,045 |
| 180 | Long Island U.[e] | 2,275 | 2,656 | 2,613 | 1,836 | 1,836 | 1,205 | NA | 1,035 |
| 181 | Rensselaer Polytechnic U., Troy | 1,074 | 972 | 1,064 | 1,017 | 1,063 | 1,070 | 1,060 | 1,035 |
| 182 | U. NH | 1,121 | 1,131 | 1,104 | 1,095 | 1,095 | 1,083 | 1,009 | 1,029 |
| 183 | Villanova U. | 882 | 830 | 811 | 846 | 886 | 921 | 983 | 1,029 |
| 184 | Seton Hall U. | 879 | 1,015 | 1,000 | 971 | 971 | 1,105 | 1,165 | 1,024 |
| 185 | U. Southern MS | 909 | 974 | 846 | 834 | 834 | 916 | 997 | 1,006 |
| 186 | Pepperdine U. | 833 | 931 | 942 | 932 | 947 | 683 | 1,102 | 1,002 |
| 187 | U. AL, Huntsville | 1,135 | 1,046 | 1,052 | 1,121 | 1,121 | 936 | 922 | 999 |
| 188 | FL Institute of Technology | 1,043 | 966 | 874 | 949 | 949 | 936 | 1,000 | 979 |
| 189 | U. NE, Omaha | 830 | 858 | 901 | 937 | 996 | 971 | 983 | 960 |
| 190 | Ball State U. | 728 | 834 | 854 | 938 | 938 | 1,053 | 735 | 945 |
| 191 | IL State U. | 624 | 640 | 636 | 699 | 814 | 860 | 887 | 945 |
| 192 | U. Memphis | 946 | 941 | 893 | 836 | 836 | 813 | 871 | 920 |
| 193 | Southern Methodist U. | 1,170 | 1,293 | 1,222 | 1,227 | 1,227 | 1,201 | 880 | 911 |
| 194 | St. Louis U. | 959 | 1,128 | 1,139 | 1,350 | 1,390 | 1,635 | 1,050 | 908 |
| 195 | Alliant International U. | 1,211 | 1,252 | 1,327 | 1,283 | 1,283 | 1,406 | 927 | 907 |
| 196 | U. Dayton | 534 | 513 | 502 | 899 | 899 | 850 | 867 | 896 |
| 197 | St. John's U. | 826 | 1,362 | 1,484 | 1,003 | 1,003 | 1,026 | 1,030 | 886 |
| 198 | U. AK, Fairbanks | 625 | 602 | 661 | 672 | 807 | 802 | 859 | 882 |
| 199 | U. IL, Springfield | 548 | 644 | 773 | 796 | 796 | 751 | 780 | 882 |
| 200 | U. NC, Greensboro | 979 | 1,033 | 1,070 | 1,166 | 1,202 | 763 | 819 | 872 |
| 201 | Miami U. | 584 | 633 | 638 | 623 | 623 | 644 | 781 | 862 |
| 202 | MT State U. | 673 | 675 | 701 | 779 | 875 | 880 | 898 | 847 |
| 203 | U. PR, Mayaguez | 906 | 888 | 877 | 882 | 882 | 884 | 883 | 844 |
| 204 | U. OR | 738 | 744 | 727 | 680 | 680 | 701 | 721 | 835 |
| 205 | TX Southern U. | 669 | 943 | 890 | 390 | 453 | 505 | 599 | 831 |
| 206 | U. PR, Medical Sciences Campus | 911 | 963 | 958 | 970 | 970 | 920 | 864 | 828 |
| 207 | Yeshiva U. | 659 | 776 | 722 | 712 | 712 | 709 | 655 | 819 |
| 208 | Claremont Graduate U. | 693 | 711 | 697 | 681 | 681 | 729 | 761 | 809 |
| 209 | Air Force Institute of Technology | 897 | 966 | 806 | 755 | 755 | 655 | 689 | 802 |
| 210 | Montclair State U. | 501 | 551 | 569 | 538 | 538 | 694 | 926 | 802 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 211 | Dartmouth C. | 671 | 702 | 672 | 720 | 720 | 708 | 768 | 790 |
| 212 | U. ND | 695 | 809 | 891 | 944 | 980 | 1,172 | 1,217 | 789 |
| 213 | Oakland U. | 1,138 | 1,149 | 1,181 | 984 | 984 | 951 | 749 | 773 |
| 214 | Northern AZ U. | 704 | 668 | 1,117 | 976 | 976 | 853 | 722 | 768 |
| 215 | Pontifical Catholic U. PR | 486 | 517 | 546 | 549 | 549 | 647 | 706 | 767 |
| 216 | Lamar U. | 774 | 547 | 501 | 575 | 575 | 608 | 683 | 765 |
| 217 | Maharishi U. of Management | 277 | 368 | 366 | 535 | 535 | 632 | 568 | 765 |
| 218 | U. VT | 718 | 746 | 757 | 782 | 782 | 728 | 771 | 764 |
| 219 | U. ME | 736 | 744 | 728 | 812 | 812 | 831 | 817 | 755 |
| 220 | Azusa Pacific U. | 419 | 446 | 478 | 516 | 516 | 595 | 733 | 750 |
| 221 | Quinnipiac U. | 526 | 484 | 447 | 494 | 494 | 561 | 679 | 745 |
| 222 | Southern U. and A&M C. | 908 | 916 | 909 | 550 | 574 | 575 | 505 | 742 |
| 223 | Boston C. | 657 | 631 | 652 | 868 | 868 | 732 | 728 | 736 |
| 224 | Fordham U. | 411 | 380 | 430 | 557 | 557 | 651 | 840 | 730 |
| 225 | Adelphi U. | 682 | 738 | 767 | 771 | 771 | 723 | 749 | 728 |
| 226 | U. CA, San Francisco | 1,215 | 1,223 | 1,173 | 884 | 884 | 954 | 795 | 726 |
| 227 | U. MO, St. Louis | 707 | 659 | 699 | 671 | 671 | 693 | 727 | 721 |
| 228 | Howard U. | 827 | 732 | 701 | 630 | 630 | 611 | 685 | 717 |
| 229 | Bowling Green State U. | 673 | 656 | 689 | 671 | 747 | 869 | 887 | 706 |
| 230 | U. NE, Medical Ctr. | 464 | 474 | 532 | 607 | 607 | 607 | 565 | 700 |
| 231 | SD State U. | 655 | 654 | 665 | 523 | 523 | 598 | 666 | 698 |
| 232 | Indiana U. PA | 614 | 552 | 648 | 670 | 676 | 685 | 747 | 695 |
| 233 | Loyola U., MD | 633 | 681 | 692 | 663 | 663 | 624 | 696 | 695 |
| 234 | U. PR, Rio Piedras | 1,306 | 1,588 | 1,497 | 1,179 | 1,179 | 1,084 | 1,094 | 695 |
| 235 | Central MI U. | 689 | 682 | 666 | 563 | 597 | 597 | 654 | 691 |
| 236 | U. MT | 765 | 789 | 776 | 743 | 743 | 725 | 741 | 681 |
| 237 | CUNY, Hunter C. | 918 | 1,061 | 1,080 | 1,137 | 1,137 | 669 | 885 | 679 |
| 238 | Loyola U., Chicago | 732 | 781 | 770 | 940 | 940 | 1,127 | 937 | 666 |
| 239 | Marshall U. | 748 | 775 | 747 | 683 | 686 | 692 | 705 | 662 |
| 240 | U. of Medicine and Dentistry of NJ | 479 | 533 | 578 | 694 | 694 | 662 | 711 | 661 |
| 241 | U. TX, Southwestern Medical Ctr., Dallas | 626 | 693 | 682 | 705 | 705 | 726 | 676 | 657 |
| 242 | Marquette U. | 1,239 | 1,173 | 1,188 | 1,157 | 1,157 | 714 | 496 | 655 |
| 243 | Loma Linda U. | 1,181 | 1,229 | 1,086 | 552 | 590 | 650 | 566 | 654 |
| 244 | East TN State U. | 534 | 609 | 720 | 820 | 852 | 902 | 650 | 641 |
| 245 | U. AR for Medical Sciences | 494 | 523 | 539 | 583 | 583 | 583 | 607 | 641 |
| 246 | U. North TX, Health Science Ctr. | 424 | 432 | 472 | 473 | 473 | 517 | 603 | 630 |
| 247 | ID State U. | 582 | 682 | 648 | 599 | 599 | 609 | 533 | 629 |
| 248 | TX A&M U., Kingsville | 703 | 712 | 708 | 1,045 | 1,045 | 833 | 814 | 627 |
| 249 | U. MS | 806 | 854 | 833 | 575 | 575 | 462 | 489 | 625 |
| 250 | U. SD | 371 | 368 | 392 | 318 | 318 | 351 | 656 | 624 |
| 251 | U. LA, Lafayette | 566 | 650 | 553 | 585 | 585 | 687 | 682 | 616 |
| 252 | Baylor C. of Medicine | 533 | 662 | 685 | 716 | 716 | 679 | 582 | 608 |
| 253 | TN State U. | 521 | 579 | 372 | 592 | 592 | 416 | 512 | 600 |
| 254 | NY Medical C. | 378 | 378 | 392 | 469 | 469 | 474 | 555 | 578 |
| 255 | Catholic U. America | 502 | 486 | 498 | 352 | 352 | 593 | 620 | 568 |
| 256 | U. South AL | 1,220 | 1,269 | 1,369 | 1,600 | 1,633 | 1,578 | 594 | 565 |
| 257 | NC Agricultural and Technical State U. | 343 | 322 | 394 | 377 | 392 | 456 | 516 | 563 |
| 258 | Baylor U. | 416 | 414 | 483 | 587 | 594 | 675 | 532 | 561 |
| 259 | U. MA, Boston | 741 | 746 | 732 | 776 | 776 | 851 | 586 | 542 |
| 260 | Stephen F. Austin State U. | 450 | 398 | 409 | 418 | 418 | 548 | 495 | 535 |
| 261 | U. Detroit Mercy[e] | 594 | 598 | 630 | 516 | 516 | NA | NA | NA |
| 262 | U. Central AR | 477 | 589 | 745 | 763 | 779 | 956 | 685 | 531 |
| 263 | Barry U. | 760 | 792 | 814 | 469 | 469 | 444 | 445 | 522 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 264 | U. Northern CO | 585 | 653 | 605 | 780 | 898 | 844 | 724 | 520 |
| 265 | U. MA, Dartmouth | 377 | 414 | 465 | 456 | 456 | 469 | 426 | 517 |
| 266 | Wake Forest U. | 395 | 412 | 436 | 455 | 472 | 453 | 469 | 515 |
| 267 | Boise State U. | 395 | 422 | 442 | 524 | 546 | 500 | 586 | 500 |
| 268 | TX A&M Health Science Ctr.[g] | 108 | 105 | 95 | 92 | 92 | 548 | 460 | 500 |
| 269 | Middle TN State U. | 268 | 280 | 273 | 335 | 350 | 618 | 660 | 494 |
| 270 | FL A&M U. | 458 | 460 | 527 | 496 | 496 | 552 | 530 | 493 |
| 271 | OR Health and Science U.[h] | 296 | 307 | 305 | 328 | 328 | 574 | 466 | 487 |
| 272 | U. NC, Wilmington | 323 | 337 | 362 | 437 | 437 | 450 | 537 | 482 |
| 273 | U. Baltimore | 405 | 386 | 399 | 442 | 442 | 470 | 494 | 475 |
| 274 | Pace U. | 1,030 | 872 | 838 | 628 | 628 | 673 | 483 | 470 |
| 275 | Clark U. | 379 | 347 | 323 | 336 | 336 | 344 | 363 | 469 |
| 276 | U. MD, Baltimore | 1,080 | 925 | 1,106 | 1,286 | 1,286 | 1,350 | 463 | 468 |
| 277 | LA Tech U. | 664 | 542 | 463 | 407 | 407 | 408 | 433 | 462 |
| 278 | GA Southern U. | 349 | 333 | 341 | 406 | 406 | 437 | 411 | 451 |
| 279 | U. MA, Medical School | 475 | 569 | 549 | 567 | 567 | 406 | 418 | 448 |
| 280 | SUNY, C. of Environmental Science and Forestry | 398 | 429 | 392 | 388 | 388 | 400 | 443 | 447 |
| 281 | Jackson State U. | 324 | 393 | 347 | 366 | 366 | 407 | 427 | 438 |
| 282 | Palo Alto U. | 267 | 258 | 272 | 298 | 298 | 322 | 343 | 428 |
| 283 | AR State U. | 450 | 449 | 534 | 347 | 347 | 364 | 374 | 423 |
| 284 | U. Northern IA | 222 | 219 | 180 | 237 | 293 | 286 | 382 | 422 |
| 285 | C. of William and Mary | 454 | 447 | 473 | 455 | 455 | 462 | 464 | 419 |
| 286 | U. La Verne | 398 | 423 | 388 | 371 | 371 | 408 | 357 | 413 |
| 287 | U. Tulsa | 392 | 356 | 361 | 351 | 351 | 373 | 406 | 407 |
| 288 | Hofstra U. | 522 | 502 | 475 | 480 | 480 | 483 | 371 | 399 |
| 289 | Sacred Heart U. | 270 | 242 | 241 | 310 | 310 | 394 | 535 | 398 |
| 290 | U. TX, Health Science Ctr., San Antonio | 556 | 412 | 417 | 600 | 600 | 434 | 450 | 397 |
| 291 | TX A&M U., Commerce | 306 | 391 | 353 | 406 | 406 | 393 | 727 | 395 |
| 292 | U. TX, Tyler | 284 | 322 | 318 | 380 | 406 | 419 | 293 | 394 |
| 293 | U. San Diego | 241 | 257 | 294 | 321 | 334 | 359 | 371 | 392 |
| 294 | U. AR, Little Rock | 308 | 244 | 290 | 229 | 229 | 251 | 333 | 390 |
| 295 | Lawrence Technological U. | 306 | 342 | 416 | 555 | 555 | 451 | 443 | 385 |
| 296 | Morgan State U. | 346 | 331 | 311 | 363 | 373 | 381 | 354 | 383 |
| 297 | James Madison U. | 278 | 299 | 328 | 318 | 348 | 340 | 370 | 372 |
| 298 | CA Institute of Integral Studies | 542 | 609 | 631 | 648 | 648 | 714 | 350 | 371 |
| 299 | Duquesne U. | 447 | 449 | 489 | 478 | 478 | 387 | 356 | 370 |
| 300 | TX A&M U., Corpus Christi | 551 | 461 | 459 | 509 | 509 | 317 | 370 | 367 |
| 301 | Prairie View A&M U. | 311 | 434 | 465 | 514 | 514 | 458 | 338 | 360 |
| 302 | TN Technological U. | 293 | 278 | 259 | 256 | 256 | 245 | 328 | 333 |
| 303 | Sam Houston State U. | 440 | 163 | 275 | 253 | 253 | 288 | 315 | 330 |
| 304 | Mercer U. | 155 | 178 | 213 | 474 | 474 | 400 | 295 | 325 |
| 305 | Clarkson U. | 269 | 290 | 321 | 332 | 344 | 350 | 322 | 316 |
| 306 | Rush U.[e] | 445 | 458 | 541 | 457 | 457 | 705 | 345 | NA |
| 307 | U. of the Sciences Philadelphia | 266 | 262 | 295 | 283 | 283 | 285 | 308 | 302 |
| 308 | NM Institute of Mining and Technology | 316 | 318 | 302 | 304 | 304 | 320 | 314 | 300 |
| 309 | U. TN, Health Science Ctr. | 305 | 285 | 295 | 271 | 271 | 261 | 277 | 298 |
| 310 | U. TX, Medical Branch | 714 | 873 | 663 | 335 | 335 | 314 | 299 | 295 |
| 311 | West TX A&M U. | 289 | 321 | 333 | 357 | 357 | 378 | 355 | 286 |
| 312 | U. TN, Chattanooga | 420 | 465 | 482 | 499 | 499 | 272 | 265 | 281 |
| 313 | Chapman U. | 446 | 507 | 411 | 470 | 470 | 54 | 216 | 278 |
| 314 | Embry-Riddle Aeronautical U. | 115 | 139 | 145 | 155 | 155 | 157 | 225 | 276 |
| 315 | U. Hartford | 507 | 516 | 558 | 538 | 538 | 417 | 290 | 273 |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| 316 | Andrews U. | 217 | 232 | 237 | 235 | 235 | 254 | 286 | 268 |
| 317 | Mayo Graduate School | 232 | 224 | 246 | 229 | 229 | 243 | 250 | 264 |
| 318 | Thomas Jefferson U. | 527 | 638 | 702 | 613 | 613 | 260 | 283 | 261 |
| 319 | SD School of Mines and Technology | 272 | 234 | 235 | 231 | 231 | 234 | 262 | 260 |
| 320 | Carlos Albizu U. | 656 | 649 | 621 | 581 | 581 | 572 | 250 | 257 |
| 321 | Hampton U. | 468 | 493 | 506 | 226 | 226 | 229 | 232 | 257 |
| 322 | Fuller Theological Seminary | 348 | 386 | 384 | 341 | 341 | 235 | 228 | 253 |
| 323 | Medical U. SC | 303 | 303 | 411 | 255 | 255 | 259 | 235 | 243 |
| 324 | GA Health Sciences U. | 215 | 249 | 297 | 369 | 369 | 412 | 202 | 242 |
| 325 | McNeese State U. | 214 | 188 | 185 | 340 | 340 | 193 | 226 | 241 |
| 326 | Eastern VA Medical School | 211 | 192 | 207 | 225 | 225 | 239 | 218 | 239 |
| 327 | Clark Atlanta U. | 173 | 180 | 183 | 249 | 249 | 197 | 243 | 232 |
| 328 | U. of the Pacific | 208 | 201 | 204 | 221 | 238 | 253 | 170 | 225 |
| 329 | Medical C. WI | 159 | 181 | 202 | 220 | 220 | 194 | 171 | 215 |
| 330 | Rockefeller U. | 193 | 200 | 199 | 178 | 178 | 225 | 215 | 193 |
| 331 | Creighton U. | 236 | 229 | 198 | 193 | 193 | 197 | 272 | 192 |
| 332 | TX Christian U. | 125 | 132 | 151 | 171 | 183 | 225 | 174 | 183 |
| 333 | Marywood U. | 608 | 363 | 357 | 221 | 320 | 235 | 234 | 181 |
| 334 | Mt. Sinai School of Medicine | 204 | 215 | 241 | 301 | 301 | 259 | 178 | 175 |
| 335 | IN State U. | 593 | 693 | 808 | 464 | 499 | 296 | 235 | 173 |
| 336 | Uniformed Services U. of the Health Sciences | 166 | 168 | 184 | 173 | 173 | 163 | 166 | 173 |
| 337 | Tuskegee U. | 131 | 109 | 123 | 115 | 115 | 142 | 182 | 170 |
| 338 | Gallaudet U. | 95 | 94 | 101 | 68 | 68 | 149 | 171 | 168 |
| 339 | U. LA, Monroe | 134 | 111 | 107 | 161 | 176 | 176 | 168 | 164 |
| 340 | AL A&M U. | 198 | 182 | 221 | 224 | 224 | 179 | 151 | 153 |
| 341 | Alfred U. | 161 | 151 | 153 | 212 | 212 | 168 | 133 | 138 |
| 342 | CUNY, C. Staten Island | 121 | 141 | 171 | 89 | 89 | 98 | 120 | 135 |
| 343 | Wesleyan U. | 134 | 126 | 120 | 127 | 127 | 121 | 118 | 133 |
| 344 | SUNY, Upstate Medical U. | 155 | 152 | 143 | 129 | 129 | 127 | 125 | 132 |
| 345 | U. MD, Eastern Shore | 193 | 199 | 218 | 236 | 236 | 134 | 120 | 127 |
| 346 | Russell Sage C. | 270 | 260 | 249 | 194 | 194 | 220 | 81 | 117 |
| 347 | Albany Medical C. | 153 | 180 | 184 | 228 | 228 | 270 | 224 | 110 |
| 348 | Morehouse School of Medicine | 32 | 26 | 27 | 28 | 28 | 31 | 116 | 110 |
| 349 | Meharry Medical C. | 101 | 81 | 71 | 77 | 77 | 82 | 101 | 106 |
| 350 | VA State U. | 80 | 85 | 73 | 74 | 74 | 105 | 100 | 105 |
| 351 | Frederick S. Pardee RAND Graduate School | 91 | 101 | 96 | 103 | 103 | 111 | 115 | 103 |
| 352 | DE State U. | 7 | 50 | 84 | 81 | 81 | 91 | 93 | 100 |
| 353 | SUNY, Downstate Medical Ctr. | 86 | 82 | 87 | 83 | 83 | 81 | 81 | 88 |
| 354 | Bryn Mawr C. | 84 | 87 | 84 | 84 | 84 | 98 | 69 | 65 |
| 355 | CUNY, John Jay C. of Criminal Justice | 1,541 | 1,567 | 1,527 | 1,721 | 1,721 | 1,709 | 301 | 64 |
| 356 | Biola U. | 36 | 38 | 43 | 34 | 34 | 42 | 48 | 48 |
| 357 | Forest Institute of Professional Psychology | 214 | 205 | 217 | 221 | 221 | 231 | 257 | 42 |
| 358 | SUNY, C. of Optometry | 28 | 22 | 27 | 28 | 28 | 35 | 49 | 42 |
| 359 | Rosalind Franklin U. of Medicine and Science | 215 | 197 | 105 | 43 | 43 | 41 | 42 | 38 |
| 360 | MA C. of Pharmacy and Health Sciences | 90 | 88 | 66 | 55 | 55 | 53 | 56 | 35 |
| 361 | Ponce School of Medicine | 25 | 29 | 27 | 30 | 30 | 30 | 33 | 35 |
| 362 | AL State U. | 14 | 26 | 20 | 39 | 39 | 19 | 29 | 30 |
| 363 | Woods Hole Oceanographic Institution[c] | 139 | 139 | 145 | na | na | na | na | na |

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

| Rank | Institution | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|
| – | Baylor C. of Dentistry[g] | 70 | 72 | 73 | 72 | 72 | na | na | na |
| – | Medical U. OH[f] | 112 | 131 | 133 | na | na | na | na | na |
| – | OGI School of Science & Engineering at OR Health & Science U.[h] | 197 | 145 | 192 | 146 | 146 | na | na | na |

na = not applicable; school did not exist under this name. NA = not available; data were not collected from this institution in this year.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Totals for 2004–10 represent number of graduate students in all institutions that were doctorate granting in 2010 and differ from totals in other tables for doctorate-granting institutions in this report. See appendix A for more detail. Imputed counts associated with nonparticipating institutions are not listed in table for 2008 and later years but are included in "all institutions" totals for each year.

[c] Graduate students in joint programs of Woods Hole Oceanographic Institution and MA Institute of Technology are reported under MA Institute of Technology from 2007 to 2010.

[d] Tulane U. and two LA State U. New Orleans campuses were closed in fall 2005 because of Hurricane Katrina and did not report data.

[e] Totals for "all institutions" include data imputed for nonresponding institutions; for 2008 and later years, data imputed for nonresponding institutions are not shown separately.

[f] In 2007 Medical U. OH merged with U. Toledo.

[g] Starting in 2008 graduate students at Baylor C. of Dentistry are reported under TX A&M U. System Health Science Ctr.

[h] Starting in 2008 graduate students at OGI School of Science & Engineering are reported under OR Health & Science U.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 26. Black or African American, full-time graduate students in science, engineering, and health in all institutions and in historically black colleges and universities, by field and sex: 2006–10

| Field | Male | | | | | | Female | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
| Black or African American students in all institutions (n) | 6,768 | 6,776 | 6,895 | 7,384 | 7,632 | 7,883 | 13,168 | 12,849 | 13,183 | 14,519 | 14,730 | 14,728 |
| Science and engineering | 5,727 | 5,825 | 5,974 | 6,422 | 6,741 | 6,968 | 9,131 | 9,178 | 9,554 | 10,417 | 11,038 | 11,226 |
| Science | 4,283 | 4,402 | 4,528 | 4,891 | 5,169 | 5,301 | 8,435 | 8,432 | 8,780 | 9,665 | 10,238 | 10,424 |
| Agricultural sciences | 108 | 99 | 102 | 122 | 100 | 133 | 199 | 184 | 183 | 189 | 174 | 199 |
| Biological sciences | 755 | 789 | 795 | 851 | 899 | 937 | 1,663 | 1,697 | 1,714 | 1,794 | 1,932 | 1,921 |
| Communication[a] | ne | ne | 76 | 108 | 126 | 132 | ne | ne | 203 | 227 | 240 | 269 |
| Computer sciences | 459 | 535 | 529 | 521 | 573 | 609 | 279 | 290 | 284 | 282 | 341 | 354 |
| Earth, atmospheric, and ocean sciences | 77 | 83 | 81 | 92 | 107 | 112 | 109 | 113 | 110 | 115 | 116 | 116 |
| Family and consumer sciences/ human sciences[a] | ne | ne | 20 | 19 | 35 | 34 | ne | ne | 122 | 136 | 194 | 184 |
| Mathematical sciences | 210 | 227 | 227 | 230 | 253 | 237 | 210 | 196 | 195 | 172 | 180 | 188 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | 49 | 57 | 74 | 103 | ne | ne | 82 | 112 | 159 | 217 |
| Neuroscience[a] | na | na | 23 | 27 | 32 | 34 | na | na | 32 | 33 | 49 | 48 |
| Physical sciences | 402 | 375 | 375 | 394 | 394 | 400 | 383 | 397 | 395 | 392 | 406 | 420 |
| Psychology[b] | 576 | 552 | 548 | 665 | 639 | 604 | 2,410 | 2,358 | 2,329 | 2,758 | 2,814 | 2,810 |
| Social sciences | 1,696 | 1,742 | 1,703 | 1,805 | 1,937 | 1,966 | 3,182 | 3,197 | 3,131 | 3,455 | 3,633 | 3,698 |
| Engineering | 1,444 | 1,423 | 1,446 | 1,531 | 1,572 | 1,667 | 696 | 746 | 774 | 752 | 800 | 802 |
| Health[a,b] | 1,041 | 951 | 921 | 962 | 891 | 915 | 4,037 | 3,671 | 3,629 | 4,102 | 3,692 | 3,502 |
| Black or African American students in HBCUs (n) | 1,241 | 998 | 1,012 | 959 | 1,060 | 1,206 | 2,175 | 1,842 | 1,883 | 1,892 | 1,914 | 2,158 |
| Science and engineering | 1,044 | 903 | 916 | 870 | 983 | 1,132 | 1,514 | 1,396 | 1,429 | 1,448 | 1,611 | 1,854 |
| Science | 802 | 684 | 684 | 637 | 744 | 868 | 1,402 | 1,280 | 1,302 | 1,315 | 1,463 | 1,696 |
| Agricultural sciences | 43 | 33 | 33 | 55 | 37 | 66 | 92 | 77 | 77 | 103 | 86 | 100 |
| Biological sciences | 117 | 113 | 117 | 121 | 118 | 126 | 248 | 251 | 259 | 270 | 346 | 381 |
| Communication[a] | ne | ne | 10 | 7 | 13 | 31 | ne | ne | 28 | 21 | 23 | 44 |
| Computer sciences | 78 | 56 | 56 | 52 | 58 | 67 | 46 | 48 | 47 | 49 | 46 | 62 |
| Earth, atmospheric, and ocean sciences | 20 | 16 | 16 | 11 | 17 | 19 | 20 | 14 | 14 | 25 | 19 | 22 |
| Family and consumer sciences/ human sciences[a] | ne | ne | 2 | 1 | 4 | 4 | ne | ne | 11 | 10 | 21 | 24 |
| Mathematical sciences | 37 | 45 | 45 | 35 | 46 | 35 | 48 | 39 | 39 | 22 | 32 | 32 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | 6 | 5 | 7 | 12 | ne | ne | 7 | 7 | 6 | 11 |
| Neuroscience[a] | na | na | 0 | 0 | 4 | 3 | na | na | 0 | 0 | 14 | 9 |
| Physical sciences | 105 | 76 | 76 | 80 | 76 | 78 | 79 | 86 | 86 | 83 | 91 | 100 |
| Psychology[b] | 81 | 64 | 64 | 58 | 59 | 67 | 284 | 281 | 281 | 246 | 227 | 218 |
| Social sciences | 321 | 281 | 259 | 212 | 305 | 360 | 585 | 484 | 453 | 479 | 552 | 693 |
| Engineering | 242 | 219 | 232 | 233 | 239 | 264 | 112 | 116 | 127 | 133 | 148 | 158 |
| Health[a,b] | 197 | 95 | 96 | 89 | 77 | 74 | 661 | 446 | 454 | 444 | 303 | 304 |
| Black or African American students in HBCUs (%) | 18.3 | 14.7 | 14.7 | 13.0 | 13.9 | 15.3 | 16.5 | 14.3 | 14.3 | 13.0 | 13.0 | 14.7 |
| Science and engineering | 18.2 | 15.5 | 15.3 | 13.5 | 14.6 | 16.2 | 16.6 | 15.2 | 15.0 | 13.9 | 14.6 | 16.5 |
| Science | 18.7 | 15.5 | 15.1 | 13.0 | 14.4 | 16.4 | 16.6 | 15.2 | 14.8 | 13.6 | 14.3 | 16.3 |
| Agricultural sciences | 39.8 | 33.3 | 32.4 | 45.1 | 37.0 | 49.6 | 46.2 | 41.8 | 42.1 | 54.5 | 49.4 | 50.3 |
| Biological sciences | 15.5 | 14.3 | 14.7 | 14.2 | 13.1 | 13.4 | 14.9 | 14.8 | 15.1 | 15.1 | 17.9 | 19.8 |
| Communication[a] | ne | ne | 13.2 | 6.5 | 10.3 | 23.5 | ne | ne | 13.8 | 9.3 | 9.6 | 16.4 |
| Computer sciences | 17.0 | 10.5 | 10.6 | 10.0 | 10.1 | 11.0 | 16.5 | 16.6 | 16.5 | 17.4 | 13.5 | 17.5 |
| Earth, atmospheric, and ocean sciences | 26.0 | 19.3 | 19.8 | 12.0 | 15.9 | 17.0 | 18.3 | 12.4 | 12.7 | 21.7 | 16.4 | 19.0 |
| Family and consumer sciences/ human sciences[a] | ne | ne | 10.0 | 5.3 | 11.4 | 11.8 | ne | ne | 9.0 | 7.4 | 10.8 | 13.0 |
| Mathematical sciences | 17.6 | 19.8 | 19.8 | 15.2 | 18.2 | 14.8 | 22.9 | 19.9 | 20.0 | 12.8 | 17.8 | 17.0 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | 12.2 | 8.8 | 9.5 | 11.7 | ne | ne | 8.5 | 6.3 | 3.8 | 5.1 |
| Neuroscience[a] | na | na | 0.0 | 0.0 | 12.5 | 8.8 | na | na | 0.0 | 0.0 | 28.6 | 18.8 |
| Physical sciences | 26.1 | 20.3 | 20.3 | 20.3 | 19.3 | 19.5 | 20.6 | 21.7 | 21.8 | 21.2 | 22.4 | 23.8 |

TABLE 26. Black or African American, full-time graduate students in science, engineering, and health in all institutions and in historically black colleges and universities, by field and sex: 2006–10

| Field | Male | | | | | | Female | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010 |
| Psychology[b] | 14.1 | 11.6 | 11.7 | 8.7 | 9.2 | 11.1 | 11.8 | 11.9 | 12.1 | 8.9 | 8.1 | 7.8 |
| Social sciences | 18.9 | 16.1 | 15.2 | 11.7 | 15.7 | 18.3 | 18.4 | 15.1 | 14.5 | 13.9 | 15.2 | 18.7 |
| Engineering | 16.8 | 15.4 | 16.0 | 15.2 | 15.2 | 15.8 | 16.1 | 15.5 | 16.4 | 17.7 | 18.5 | 19.7 |
| Health[a,b] | 18.9 | 10.0 | 10.4 | 9.3 | 8.6 | 8.1 | 16.4 | 12.1 | 12.5 | 10.8 | 8.2 | 8.7 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

HBCUs = historically black colleges and universities.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

NOTE: "Black or African American" includes U.S. citizens and permanent residents who report a single race and are not of Hispanic origin.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 27. Postdoctoral appointees in science, engineering, and health in all institutions, by field: 1979–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine[a] | Other health |
| 1979 | 18,101 | 13,586 | 12,519 | 1,067 | 4,515 | 4,035 | 480 |
| 1980 | 18,399 | 14,023 | 13,042 | 981 | 4,376 | 3,899 | 477 |
| 1981 | 19,634 | 14,771 | 13,731 | 1,040 | 4,863 | 4,328 | 535 |
| 1982 | 19,363 | 14,678 | 13,698 | 980 | 4,685 | 4,058 | 627 |
| 1983 | 20,712 | 15,670 | 14,562 | 1,108 | 5,042 | 4,450 | 592 |
| 1984 | 21,535 | 16,182 | 14,979 | 1,203 | 5,353 | 4,713 | 640 |
| 1985 | 22,387 | 16,932 | 15,576 | 1,356 | 5,455 | 4,746 | 709 |
| 1986 | 23,721 | 17,917 | 16,512 | 1,405 | 5,804 | 5,094 | 710 |
| 1987 | 24,881 | 18,815 | 17,369 | 1,446 | 6,066 | 5,302 | 764 |
| 1988 | 26,123 | 19,714 | 18,024 | 1,690 | 6,409 | 5,552 | 857 |
| 1989 | 27,932 | 20,906 | 18,978 | 1,928 | 7,026 | 6,166 | 860 |
| 1990 | 29,565 | 21,803 | 19,853 | 1,950 | 7,762 | 6,945 | 817 |
| 1991 | 30,865 | 22,857 | 20,595 | 2,262 | 8,008 | 7,168 | 840 |
| 1992 | 32,747 | 23,883 | 21,514 | 2,369 | 8,864 | 7,977 | 887 |
| 1993 | 34,322 | 24,665 | 22,219 | 2,446 | 9,657 | 8,625 | 1,032 |
| 1994 | 36,377 | 25,787 | 23,181 | 2,606 | 10,590 | 9,411 | 1,179 |
| 1995 | 35,926 | 26,160 | 23,512 | 2,648 | 9,766 | 8,594 | 1,172 |
| 1996 | 37,107 | 26,569 | 23,892 | 2,677 | 10,538 | 9,362 | 1,176 |
| 1997 | 38,481 | 27,264 | 24,293 | 2,971 | 11,217 | 9,990 | 1,227 |
| 1998 | 40,086 | 27,876 | 25,023 | 2,853 | 12,210 | 10,957 | 1,253 |
| 1999 | 40,800 | 28,980 | 25,784 | 3,196 | 11,820 | 10,623 | 1,197 |
| 2000 | 43,115 | 30,224 | 26,911 | 3,313 | 12,891 | 11,555 | 1,336 |
| 2001 | 43,311 | 30,196 | 27,044 | 3,152 | 13,115 | 11,663 | 1,452 |
| 2002 | 45,034 | 31,937 | 28,371 | 3,566 | 13,097 | 11,582 | 1,515 |
| 2003 | 46,728 | 33,666 | 29,856 | 3,810 | 13,062 | 11,445 | 1,617 |
| 2004 | 47,240 | 34,065 | 30,116 | 3,949 | 13,175 | 11,477 | 1,698 |
| 2005 | 48,555 | 34,456 | 30,290 | 4,166 | 14,099 | 12,323 | 1,776 |
| 2006 | 49,343 | 34,887 | 30,245 | 4,642 | 14,456 | 12,584 | 1,872 |
| 2007old[b] | 50,712 | 35,894 | 30,986 | 4,908 | 14,818 | 12,805 | 2,013 |
| 2007new[b] | 50,840 | 36,223 | 31,281 | 4,942 | 14,617 | 12,472 | 2,145 |
| 2008 | 54,164 | 38,203 | 32,741 | 5,462 | 15,961 | 13,837 | 2,124 |
| 2009 | 57,805 | 40,804 | 34,388 | 6,416 | 17,001 | 14,601 | 2,400 |
| 2010[c] | 63,415 | 44,051 | 37,095 | 6,956 | 19,364 | 16,610 | 2,754 |

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 28. Postdoctoral appointees in science in all institutions, by science field: 1979–2010

| Year | Total | Agricultural sciences | Biological sciences | Communication[a] | Computer sciences | Earth, atmospheric, and ocean sciences | Family and consumer sciences/ human sciences[a] | Mathematical sciences | Multidisciplinary/ interdisciplinary studies[a] | Neuroscience[a] | Physical sciences | Psychology | Social sciences |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1979 | 12,519 | 228 | 6,866 | ne | 38 | 315 | ne | 162 | ne | na | 4,056 | 454 | 400 |
| 1980 | 13,042 | 259 | 7,083 | ne | 43 | 312 | ne | 162 | ne | na | 4,279 | 475 | 429 |
| 1981 | 13,731 | 292 | 7,678 | ne | 35 | 346 | ne | 113 | ne | na | 4,477 | 471 | 319 |
| 1982 | 13,698 | 302 | 7,713 | ne | 47 | 340 | ne | 194 | ne | na | 4,298 | 520 | 284 |
| 1983 | 14,562 | 318 | 8,337 | ne | 80 | 420 | ne | 170 | ne | na | 4,458 | 437 | 342 |
| 1984 | 14,979 | 384 | 8,683 | ne | 59 | 493 | ne | 203 | ne | na | 4,408 | 423 | 326 |
| 1985 | 15,576 | 374 | 9,128 | ne | 70 | 379 | ne | 226 | ne | na | 4,539 | 510 | 350 |
| 1986 | 16,512 | 421 | 9,692 | ne | 75 | 420 | ne | 201 | ne | na | 4,860 | 521 | 322 |
| 1987 | 17,369 | 453 | 10,353 | ne | 103 | 424 | ne | 229 | ne | na | 4,968 | 460 | 379 |
| 1988 | 18,024 | 476 | 10,653 | ne | 96 | 496 | ne | 284 | ne | na | 5,201 | 498 | 320 |
| 1989 | 18,978 | 522 | 11,425 | ne | 84 | 453 | ne | 225 | ne | na | 5,366 | 536 | 367 |
| 1990 | 19,853 | 536 | 11,909 | ne | 71 | 594 | ne | 249 | ne | na | 5,592 | 464 | 438 |
| 1991 | 20,595 | 580 | 12,455 | ne | 120 | 625 | ne | 206 | ne | na | 5,722 | 508 | 379 |
| 1992 | 21,514 | 640 | 13,158 | ne | 145 | 692 | ne | 201 | ne | na | 5,792 | 525 | 361 |
| 1993 | 22,219 | 720 | 13,778 | ne | 164 | 765 | ne | 224 | ne | na | 5,669 | 521 | 378 |
| 1994 | 23,181 | 729 | 14,379 | ne | 185 | 824 | ne | 239 | ne | na | 5,884 | 551 | 390 |
| 1995 | 23,512 | 724 | 14,659 | ne | 213 | 845 | ne | 262 | ne | na | 5,851 | 582 | 376 |
| 1996 | 23,892 | 699 | 14,890 | ne | 250 | 861 | ne | 326 | ne | na | 5,828 | 594 | 444 |
| 1997 | 24,293 | 724 | 15,082 | ne | 322 | 942 | ne | 308 | ne | na | 5,968 | 586 | 361 |
| 1998 | 25,023 | 695 | 15,761 | ne | 374 | 902 | ne | 279 | ne | na | 6,004 | 617 | 391 |
| 1999 | 25,784 | 750 | 16,097 | ne | 334 | 925 | ne | 351 | ne | na | 6,157 | 716 | 454 |
| 2000 | 26,911 | 822 | 16,734 | ne | 344 | 1,155 | ne | 385 | ne | na | 6,270 | 730 | 471 |
| 2001 | 27,044 | 833 | 17,032 | ne | 336 | 1,049 | ne | 353 | ne | na | 6,223 | 809 | 409 |
| 2002 | 28,371 | 963 | 17,640 | ne | 356 | 1,129 | ne | 395 | ne | na | 6,619 | 815 | 454 |
| 2003 | 29,856 | 1,054 | 18,625 | ne | 355 | 1,182 | ne | 449 | ne | na | 6,829 | 960 | 402 |
| 2004 | 30,116 | 959 | 18,716 | ne | 384 | 1,263 | ne | 468 | ne | na | 7,059 | 902 | 365 |
| 2005 | 30,290 | 1,007 | 18,747 | ne | 406 | 1,364 | ne | 500 | ne | na | 7,011 | 884 | 371 |
| 2006 | 30,245 | 927 | 18,807 | ne | 467 | 1,495 | ne | 579 | ne | na | 6,703 | 873 | 394 |
| 2007old[a] | 30,986 | 948 | 19,218 | ne | 516 | 1,322 | ne | 621 | ne | na | 6,760 | 1,106 | 495 |
| 2007new[a] | 31,281 | 985 | 19,109 | 30 | 456 | 1,250 | 8 | 624 | 244 | 285 | 6,719 | 1,088 | 483 |

TABLE 28. Postdoctoral appointees in science in all institutions, by science field: 1979–2010

| Year | Total | Agricultural sciences | Biological sciences | Communi-cation[a] | Computer sciences | Earth, atmospheric, and ocean sciences | Family and consumer sciences/ human sciences[a] | Mathematical sciences | Multidisciplinary/ interdisciplinary studies[a] | Neuroscience[a] | Physical sciences | Psychology | Social sciences |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008 | 32,741 | 1,147 | 19,827 | 32 | 493 | 1,339 | 19 | 723 | 348 | 343 | 6,885 | 1,077 | 508 |
| 2009 | 34,388 | 1,083 | 20,159 | 38 | 594 | 1,424 | 22 | 737 | 459 | 645 | 7,447 | 1,219 | 561 |
| 2010[b] | 37,095 | 1,195 | 21,537 | 60 | 748 | 1,760 | 30 | 756 | 765 | 818 | 7,703 | 1,077 | 646 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 29. Postdoctoral appointees in engineering in all institutions, by engineering field: 1979–2010

| Year | Total | Aerospace engineering | Agricultural engineering | Architecture[a] | Biomedical engineering | Chemical engineering | Civil engineering[a] | Electrical engineering | Engineering science | Industrial engineering | Mechanical engineering | Metal-lurgical/ materials engineering | Mining engineer-ing | Nuclear engineering | Petroleum engineering | Engineer-ing, nec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1979 | 1,067 | 32 | 29 | na | 28 | 192 | 128 | 142 | 74 | 8 | 143 | 209 | 5 | 20 | 6 | 51 |
| 1980 | 981 | 20 | 13 | na | 25 | 185 | 122 | 123 | 79 | 16 | 137 | 172 | 3 | 22 | 6 | 58 |
| 1981 | 1,040 | 14 | 12 | na | 32 | 173 | 103 | 191 | 87 | 13 | 130 | 194 | 16 | 26 | 2 | 47 |
| 1982 | 980 | 25 | 9 | na | 28 | 177 | 103 | 178 | 76 | 9 | 130 | 168 | 10 | 18 | 4 | 45 |
| 1983 | 1,108 | 32 | 5 | na | 27 | 199 | 131 | 180 | 71 | 13 | 182 | 204 | 19 | 15 | 1 | 29 |
| 1984 | 1,203 | 42 | 11 | na | 31 | 246 | 146 | 178 | 63 | 21 | 196 | 168 | 18 | 19 | 4 | 60 |
| 1985 | 1,356 | 51 | 16 | na | 46 | 274 | 122 | 183 | 90 | 18 | 207 | 245 | 19 | 31 | 6 | 48 |
| 1986 | 1,405 | 48 | 17 | na | 53 | 298 | 140 | 175 | 67 | 25 | 240 | 250 | 25 | 31 | 1 | 35 |
| 1987 | 1,446 | 43 | 29 | na | 44 | 312 | 174 | 177 | 41 | 26 | 216 | 283 | 26 | 20 | 10 | 45 |
| 1988 | 1,690 | 48 | 31 | na | 47 | 425 | 203 | 187 | 38 | 32 | 218 | 325 | 63 | 17 | 8 | 48 |
| 1989 | 1,928 | 38 | 39 | na | 69 | 477 | 182 | 193 | 74 | 32 | 304 | 323 | 90 | 36 | 9 | 62 |
| 1990 | 1,950 | 67 | 34 | na | 71 | 557 | 168 | 242 | 76 | 6 | 222 | 363 | 19 | 30 | 15 | 80 |
| 1991 | 2,262 | 77 | 37 | na | 59 | 576 | 186 | 346 | 117 | 27 | 326 | 392 | 11 | 29 | 19 | 60 |
| 1992 | 2,369 | 92 | 39 | na | 79 | 544 | 188 | 318 | 71 | 38 | 352 | 450 | 23 | 34 | 12 | 129 |
| 1993 | 2,446 | 116 | 44 | na | 80 | 529 | 181 | 388 | 78 | 63 | 358 | 403 | 19 | 40 | 13 | 134 |
| 1994 | 2,606 | 100 | 51 | na | 135 | 527 | 210 | 411 | 95 | 54 | 388 | 441 | 24 | 39 | 14 | 117 |
| 1995 | 2,648 | 101 | 51 | na | 129 | 576 | 201 | 381 | 101 | 30 | 410 | 490 | 19 | 28 | 9 | 122 |
| 1996 | 2,677 | 109 | 51 | na | 140 | 545 | 230 | 395 | 93 | 30 | 425 | 496 | 10 | 28 | 6 | 119 |
| 1997 | 2,971 | 125 | 62 | na | 154 | 636 | 248 | 508 | 115 | 28 | 440 | 465 | 11 | 33 | 21 | 125 |
| 1998 | 2,853 | 133 | 56 | na | 180 | 613 | 225 | 488 | 110 | 30 | 434 | 404 | 10 | 19 | 14 | 137 |
| 1999 | 3,196 | 128 | 62 | na | 242 | 671 | 299 | 548 | 122 | 27 | 476 | 421 | 6 | 30 | 19 | 145 |
| 2000 | 3,313 | 111 | 56 | na | 220 | 703 | 295 | 525 | 163 | 48 | 480 | 507 | 8 | 40 | 20 | 137 |
| 2001 | 3,152 | 128 | 58 | na | 262 | 574 | 268 | 436 | 162 | 21 | 501 | 479 | 14 | 77 | 17 | 155 |
| 2002 | 3,566 | 140 | 65 | na | 284 | 758 | 342 | 613 | 169 | 43 | 441 | 507 | 10 | 26 | 15 | 153 |
| 2003 | 3,810 | 141 | 85 | na | 388 | 686 | 300 | 646 | 180 | 45 | 543 | 539 | 12 | 49 | 17 | 179 |
| 2004 | 3,949 | 141 | 79 | na | 425 | 689 | 313 | 654 | 180 | 50 | 514 | 567 | 9 | 67 | 14 | 247 |
| 2005 | 4,166 | 153 | 89 | na | 477 | 702 | 384 | 689 | 168 | 51 | 562 | 578 | 8 | 41 | 13 | 251 |
| 2006 | 4,642 | 165 | 116 | na | 591 | 735 | 458 | 721 | 224 | 51 | 644 | 571 | 11 | 85 | 18 | 252 |
| 2007old[a] | 4,908 | 178 | 139 | na | 640 | 758 | 419 | 885 | 192 | 73 | 725 | 555 | 4 | 77 | 22 | 241 |
| 2007new[a] | 4,942 | 178 | 139 | 5 | 640 | 790 | 417 | 884 | 183 | 71 | 722 | 564 | 5 | 73 | 22 | 249 |

TABLE 29. Postdoctoral appointees in engineering in all institutions, by engineering field: 1979–2010

| Year | Total | Aerospace engineering | Agricultural engineering | Architecture[a] | Biomedical engineering | Chemical engineering | Civil engineering[a] | Electrical engineering | Engineering science | Industrial engineering | Mechanical engineering | Metal-lurgical/ materials engineering | Mining engineer-ing | Nuclear engineering | Petroleum engineering | Engineer-ing, nec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008 | 5,462 | 154 | 135 | 11 | 710 | 880 | 465 | 987 | 214 | 115 | 784 | 605 | 5 | 85 | 28 | 284 |
| 2009 | 6,416 | 168 | 110 | 22 | 960 | 1,084 | 535 | 1,025 | 226 | 109 | 948 | 758 | 4 | 90 | 36 | 341 |
| 2010[b] | 6,956 | 191 | 119 | 10 | 1,036 | 1,092 | 570 | 1,097 | 243 | 163 | 1,009 | 835 | 6 | 107 | 46 | 432 |

na = not applicable; data were not collected at this level of detail.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 30. Female postdoctoral appointees in science, engineering, and health in all institutions, by field: 1979–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine[a] | Other health |
| 1979 | 3,340 | 2,524 | 2,474 | 50 | 816 | 717 | 99 |
| 1980 | 3,543 | 2,680 | 2,615 | 65 | 863 | 760 | 103 |
| 1981 | 4,080 | 2,954 | 2,872 | 82 | 1,126 | 1,014 | 112 |
| 1982 | 4,371 | 3,244 | 3,160 | 84 | 1,127 | 975 | 152 |
| 1983 | 4,793 | 3,460 | 3,371 | 89 | 1,333 | 1,171 | 162 |
| 1984 | 5,041 | 3,617 | 3,533 | 84 | 1,424 | 1,257 | 167 |
| 1985 | 5,414 | 3,953 | 3,852 | 101 | 1,461 | 1,275 | 186 |
| 1986 | 5,980 | 4,356 | 4,224 | 132 | 1,624 | 1,413 | 211 |
| 1987 | 6,383 | 4,673 | 4,524 | 149 | 1,710 | 1,459 | 251 |
| 1988 | 6,802 | 4,914 | 4,742 | 172 | 1,888 | 1,609 | 279 |
| 1989 | 7,372 | 5,311 | 5,133 | 178 | 2,061 | 1,773 | 288 |
| 1990 | 7,993 | 5,633 | 5,427 | 206 | 2,360 | 2,069 | 291 |
| 1991 | 8,459 | 5,951 | 5,713 | 238 | 2,508 | 2,205 | 303 |
| 1992 | 9,297 | 6,429 | 6,178 | 251 | 2,868 | 2,554 | 314 |
| 1993 | 9,941 | 6,777 | 6,495 | 282 | 3,164 | 2,772 | 392 |
| 1994 | 10,906 | 7,297 | 6,963 | 334 | 3,609 | 3,155 | 454 |
| 1995 | 10,902 | 7,498 | 7,177 | 321 | 3,404 | 2,949 | 455 |
| 1996 | 11,266 | 7,622 | 7,307 | 315 | 3,644 | 3,194 | 450 |
| 1997 | 11,975 | 7,894 | 7,548 | 346 | 4,081 | 3,553 | 528 |
| 1998 | 12,837 | 8,326 | 7,943 | 383 | 4,511 | 3,962 | 549 |
| 1999 | 12,969 | 8,708 | 8,239 | 469 | 4,261 | 3,730 | 531 |
| 2000 | 13,509 | 8,928 | 8,455 | 473 | 4,581 | 3,978 | 603 |
| 2001 | 14,001 | 9,255 | 8,769 | 486 | 4,746 | 4,146 | 600 |
| 2002 | 15,184 | 10,130 | 9,527 | 603 | 5,054 | 4,414 | 640 |
| 2003 | 16,036 | 10,784 | 10,181 | 603 | 5,252 | 4,517 | 735 |
| 2004 | 16,373 | 10,985 | 10,281 | 704 | 5,388 | 4,618 | 770 |
| 2005 | 17,040 | 11,229 | 10,499 | 730 | 5,811 | 5,054 | 757 |
| 2006 | 17,583 | 11,526 | 10,703 | 823 | 6,057 | 5,255 | 802 |
| 2007old[b] | 17,852 | 11,482 | 10,647 | 835 | 6,370 | 5,502 | 868 |
| 2007new[b] | 17,898 | 11,592 | 10,749 | 843 | 6,306 | 5,370 | 936 |
| 2008 | 20,221 | 13,084 | 11,981 | 1,103 | 7,137 | 6,195 | 942 |
| 2009 | 21,818 | 14,157 | 12,772 | 1,385 | 7,661 | 6,561 | 1,100 |
| 2010[c] | 24,166 | 15,299 | 13,872 | 1,427 | 8,867 | 7,619 | 1,248 |

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 31. Postdoctoral appointees with temporary visas in science, engineering, and health in all institutions, by field: 1979–2010

| Year | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine[a] | Other health |
| 1979 | 6,065 | 4,994 | 4,341 | 653 | 1,071 | 897 | 174 |
| 1980 | 6,506 | 5,413 | 4,735 | 678 | 1,093 | 876 | 217 |
| 1981 | 7,294 | 5,935 | 5,227 | 708 | 1,359 | 1,128 | 231 |
| 1982 | 7,234 | 5,962 | 5,305 | 657 | 1,272 | 1,042 | 230 |
| 1983 | 7,519 | 6,193 | 5,499 | 694 | 1,326 | 1,105 | 221 |
| 1984 | 7,987 | 6,495 | 5,731 | 764 | 1,492 | 1,246 | 246 |
| 1985 | 8,859 | 7,189 | 6,276 | 913 | 1,670 | 1,376 | 294 |
| 1986 | 9,680 | 7,797 | 6,852 | 945 | 1,883 | 1,566 | 317 |
| 1987 | 10,748 | 8,483 | 7,534 | 949 | 2,265 | 1,900 | 365 |
| 1988 | 11,703 | 9,270 | 8,168 | 1,102 | 2,433 | 2,040 | 393 |
| 1989 | 13,069 | 10,221 | 8,950 | 1,271 | 2,848 | 2,403 | 445 |
| 1990 | 14,450 | 11,134 | 9,797 | 1,337 | 3,316 | 2,885 | 431 |
| 1991 | 15,730 | 12,050 | 10,443 | 1,607 | 3,680 | 3,265 | 415 |
| 1992 | 16,947 | 12,699 | 11,097 | 1,602 | 4,248 | 3,801 | 447 |
| 1993 | 17,595 | 13,030 | 11,427 | 1,603 | 4,565 | 4,079 | 486 |
| 1994 | 18,391 | 13,318 | 11,730 | 1,588 | 5,073 | 4,538 | 535 |
| 1995 | 17,784 | 13,337 | 11,688 | 1,649 | 4,447 | 3,952 | 495 |
| 1996 | 18,695 | 13,639 | 12,012 | 1,627 | 5,056 | 4,542 | 514 |
| 1997 | 19,565 | 14,429 | 12,547 | 1,882 | 5,136 | 4,577 | 559 |
| 1998 | 20,376 | 14,910 | 13,007 | 1,903 | 5,466 | 4,917 | 549 |
| 1999 | 21,916 | 16,255 | 14,077 | 2,178 | 5,661 | 5,093 | 568 |
| 2000 | 23,663 | 17,597 | 15,353 | 2,244 | 6,066 | 5,460 | 606 |
| 2001 | 24,932 | 18,123 | 15,936 | 2,187 | 6,809 | 6,090 | 719 |
| 2002 | 25,371 | 18,413 | 15,964 | 2,449 | 6,958 | 6,199 | 759 |
| 2003 | 27,065 | 20,124 | 17,447 | 2,677 | 6,941 | 6,111 | 830 |
| 2004 | 27,084 | 20,096 | 17,444 | 2,652 | 6,988 | 6,099 | 889 |
| 2005 | 27,048 | 20,378 | 17,625 | 2,753 | 6,670 | 5,712 | 958 |
| 2006 | 28,196 | 20,776 | 17,672 | 3,104 | 7,420 | 6,492 | 928 |
| 2007old[b] | 28,690 | 20,991 | 17,674 | 3,317 | 7,699 | 6,654 | 1,045 |
| 2007new[b] | 28,737 | 21,116 | 17,768 | 3,348 | 7,621 | 6,494 | 1,127 |
| 2008 | 29,249 | 21,929 | 18,366 | 3,563 | 7,320 | 6,255 | 1,065 |
| 2009 | 30,700 | 22,629 | 18,588 | 4,041 | 8,071 | 6,876 | 1,195 |
| 2010[c] | 33,646 | 23,632 | 19,334 | 4,298 | 10,014 | 8,652 | 1,362 |

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 47,240 | 48,555 | 49,343 | 50,712 | 50,840 | 54,164 | 57,805 | 63,415 |
| Science and engineering | 34,065 | 34,456 | 34,887 | 35,894 | 36,223 | 38,203 | 40,804 | 44,051 |
| Science | 30,116 | 30,290 | 30,245 | 30,986 | 31,281 | 32,741 | 34,388 | 37,095 |
| Agricultural sciences | 959 | 1,007 | 927 | 948 | 985 | 1,147 | 1,083 | 1,195 |
| Biological sciences | 18,716 | 18,747 | 18,807 | 19,218 | 19,109 | 19,827 | 20,159 | 21,537 |
| Anatomy | 477 | 417 | 377 | 364 | 341 | 350 | 371 | 437 |
| Biochemistry | 2,526 | 2,553 | 2,416 | 2,365 | 2,305 | 2,314 | 2,351 | 2,533 |
| Biology | 1,962 | 2,011 | 2,319 | 2,438 | 2,341 | 2,506 | 2,430 | 2,555 |
| Biometry/epidemiology | 238 | 259 | 300 | 337 | 349 | 330 | 395 | 466 |
| Biophysics | 218 | 191 | 224 | 187 | 186 | 165 | 180 | 240 |
| Botany | 571 | 590 | 636 | 612 | 610 | 625 | 640 | 603 |
| Cell biology | 2,333 | 2,445 | 2,407 | 2,387 | 2,429 | 2,382 | 2,638 | 2,796 |
| Ecology | 170 | 187 | 192 | 208 | 200 | 221 | 233 | 238 |
| Entomology/parasitology | 289 | 281 | 241 | 246 | 246 | 222 | 248 | 233 |
| Genetics | 941 | 1,031 | 851 | 934 | 940 | 989 | 1,054 | 1,389 |
| Microbiology/immunology/virology | 2,151 | 2,258 | 2,150 | 2,340 | 2,258 | 2,204 | 2,265 | 2,374 |
| Nutrition | 280 | 306 | 259 | 324 | 298 | 243 | 214 | 219 |
| Pathology | 1,827 | 1,400 | 1,587 | 1,573 | 1,576 | 1,791 | 1,791 | 1,797 |
| Pharmacology | 1,530 | 1,514 | 1,436 | 1,345 | 1,349 | 1,411 | 1,523 | 1,656 |
| Physiology | 1,279 | 1,296 | 1,261 | 1,188 | 1,319 | 1,329 | 1,427 | 1,448 |
| Zoology | 100 | 134 | 103 | 103 | 101 | 68 | 78 | 76 |
| Biological sciences, nec | 1,824 | 1,874 | 2,048 | 2,267 | 2,261 | 2,677 | 2,321 | 2,477 |
| Communication[a] | ne | ne | ne | ne | 30 | 32 | 38 | 60 |
| Computer sciences | 384 | 406 | 467 | 516 | 456 | 493 | 594 | 748 |
| Earth, atmospheric, and ocean sciences | 1,263 | 1,364 | 1,495 | 1,322 | 1,250 | 1,339 | 1,424 | 1,760 |
| Atmospheric sciences | 128 | 123 | 128 | 117 | 119 | 116 | 124 | 184 |
| Geosciences | 507 | 521 | 542 | 511 | 515 | 540 | 536 | 601 |
| Oceanography | 300 | 347 | 346 | 337 | 337 | 330 | 410 | 332 |
| Earth/atmospheric/ocean sciences, nec | 328 | 373 | 479 | 357 | 279 | 353 | 354 | 643 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 8 | 19 | 22 | 30 |
| Mathematical sciences | 468 | 500 | 579 | 621 | 624 | 723 | 737 | 756 |
| Mathematics/applied mathematics | 420 | 443 | 512 | 579 | 571 | 643 | 675 | 680 |
| Statistics | 48 | 57 | 67 | 42 | 53 | 80 | 62 | 76 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 244 | 348 | 459 | 765 |
| Neuroscience[a] | na | na | na | na | 285 | 343 | 645 | 818 |
| Physical sciences | 7,059 | 7,011 | 6,703 | 6,760 | 6,719 | 6,885 | 7,447 | 7,703 |
| Astronomy | 367 | 388 | 360 | 400 | 401 | 432 | 507 | 532 |
| Chemistry | 4,338 | 4,216 | 4,045 | 3,997 | 3,952 | 3,943 | 4,219 | 4,241 |
| Physics | 2,138 | 2,208 | 2,130 | 2,203 | 2,206 | 2,327 | 2,517 | 2,628 |
| Physical sciences, nec | 216 | 199 | 168 | 160 | 160 | 183 | 204 | 302 |
| Psychology | 902 | 884 | 873 | 1,106 | 1,088 | 1,077 | 1,219 | 1,077 |
| Clinical psychology | 67 | 64 | 62 | 72 | 72 | 65 | 130 | 123 |
| Psychology, general | 598 | 579 | 537 | 698 | 686 | 732 | 755 | 634 |
| Psychology, nec | 237 | 241 | 274 | 336 | 330 | 280 | 334 | 320 |
| Social sciences | 365 | 371 | 394 | 495 | 483 | 508 | 561 | 646 |
| Agricultural economics | 34 | 40 | 36 | 48 | 44 | 45 | 43 | 44 |
| Anthropology (cultural/social) | 54 | 65 | 61 | 80 | 80 | 88 | 77 | 83 |
| Economics (except agricultural) | 20 | 13 | 16 | 33 | 37 | 35 | 65 | 47 |
| Geography | 31 | 42 | 63 | 40 | 40 | 40 | 58 | 62 |
| History and philosophy of science | 6 | 9 | 8 | 13 | 9 | 9 | 9 | 13 |
| Linguistics | 29 | 24 | 25 | 26 | 20 | 21 | 14 | 27 |
| Political science | 44 | 42 | 62 | 44 | 44 | 55 | 77 | 85 |

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Sociology | 64 | 53 | 37 | 60 | 53 | 42 | 59 | 81 |
| Sociology/anthropology | 13 | 10 | 6 | 1 | 1 | 2 | 3 | 0 |
| Social sciences, nec | 70 | 73 | 80 | 150 | 155 | 171 | 156 | 204 |
| Engineering | 3,949 | 4,166 | 4,642 | 4,908 | 4,942 | 5,462 | 6,416 | 6,956 |
| Aerospace engineering | 141 | 153 | 165 | 178 | 178 | 154 | 168 | 191 |
| Agricultural engineering | 79 | 89 | 116 | 139 | 139 | 135 | 110 | 119 |
| Architecture[a] | na | na | na | na | 5 | 11 | 22 | 10 |
| Biomedical engineering | 425 | 477 | 591 | 640 | 640 | 710 | 960 | 1,036 |
| Chemical engineering | 689 | 702 | 735 | 758 | 790 | 880 | 1,084 | 1,092 |
| Civil engineering[a] | 313 | 384 | 458 | 419 | 417 | 465 | 535 | 570 |
| Electrical engineering | 654 | 689 | 721 | 885 | 884 | 987 | 1,025 | 1,097 |
| Engineering science | 180 | 168 | 224 | 192 | 183 | 214 | 226 | 243 |
| Industrial engineering | 50 | 51 | 51 | 73 | 71 | 115 | 109 | 163 |
| Mechanical engineering | 514 | 562 | 644 | 725 | 722 | 784 | 948 | 1,009 |
| Metallurgical/materials engineering | 567 | 578 | 571 | 555 | 564 | 605 | 758 | 835 |
| Mining engineering | 9 | 8 | 11 | 4 | 5 | 5 | 4 | 6 |
| Nuclear engineering | 67 | 41 | 85 | 77 | 73 | 85 | 90 | 107 |
| Petroleum engineering | 14 | 13 | 18 | 22 | 22 | 28 | 36 | 46 |
| Engineering, nec | 247 | 251 | 252 | 241 | 249 | 284 | 341 | 432 |
| Health | 13,175 | 14,099 | 14,456 | 14,818 | 14,617 | 15,961 | 17,001 | 19,364 |
| Clinical medicine | 11,477 | 12,323 | 12,584 | 12,805 | 12,472 | 13,837 | 14,601 | 16,610 |
| Anesthesiology | 274 | 301 | 335 | 334 | 334 | 395 | 435 | 477 |
| Cardiology | 364 | 403 | 420 | 394 | 432 | 515 | 532 | 700 |
| Endocrinology | 262 | 270 | 287 | 299 | 313 | 334 | 475 | 457 |
| Gastroenterology | 235 | 230 | 247 | 245 | 245 | 236 | 269 | 320 |
| Hematology | 278 | 235 | 243 | 293 | 293 | 344 | 429 | 352 |
| Neurology[a] | 1,445 | 1,481 | 1,565 | 1,614 | 1,304 | 1,363 | 1,418 | 1,328 |
| Obstetrics/gynecology | 358 | 347 | 334 | 182 | 182 | 228 | 279 | 333 |
| Oncology/cancer research | 876 | 977 | 1,156 | 1,432 | 1,508 | 1,571 | 1,681 | 1,903 |
| Ophthalmology | 384 | 372 | 340 | 375 | 371 | 466 | 462 | 523 |
| Otorhinolaryngology | 146 | 149 | 155 | 125 | 125 | 137 | 137 | 140 |
| Pediatrics | 905 | 980 | 937 | 901 | 901 | 985 | 1,003 | 1,209 |
| Preventive medicine/community health | 291 | 287 | 276 | 342 | 351 | 379 | 395 | 580 |
| Psychiatry | 811 | 855 | 812 | 855 | 791 | 888 | 918 | 1,066 |
| Pulmonary disease | 170 | 154 | 136 | 198 | 198 | 237 | 251 | 287 |
| Radiology | 609 | 630 | 837 | 885 | 841 | 845 | 977 | 1,034 |
| Surgery | 1,142 | 1,189 | 1,135 | 1,243 | 1,209 | 1,249 | 1,342 | 1,257 |
| Clinical medicine, nec | 2,927 | 3,463 | 3,369 | 3,088 | 3,074 | 3,665 | 3,598 | 4,644 |
| Other health | 1,698 | 1,776 | 1,872 | 2,013 | 2,145 | 2,124 | 2,400 | 2,754 |
| Dental sciences | 143 | 169 | 192 | 206 | 272 | 270 | 291 | 358 |
| Nursing | 78 | 58 | 61 | 65 | 65 | 92 | 70 | 55 |
| Pharmaceutical sciences | 723 | 742 | 718 | 756 | 798 | 809 | 977 | 1,102 |

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 38 | 40 | 52 | 84 | 84 | 59 | 58 | 54 |
| Veterinary sciences | 383 | 432 | 452 | 420 | 498 | 486 | 470 | 464 |
| Other health, nec | 333 | 335 | 397 | 482 | 428 | 408 | 534 | 721 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 16,373 | 17,040 | 17,583 | 17,852 | 17,898 | 20,221 | 21,818 | 24,166 |
| Science and engineering | 10,985 | 11,229 | 11,526 | 11,482 | 11,592 | 13,084 | 14,157 | 15,299 |
| Science | 10,281 | 10,499 | 10,703 | 10,647 | 10,749 | 11,981 | 12,772 | 13,872 |
| Agricultural sciences | 326 | 336 | 311 | 314 | 328 | 426 | 398 | 447 |
| Biological sciences | 7,395 | 7,559 | 7,690 | 7,653 | 7,598 | 8,358 | 8,640 | 9,352 |
| Anatomy | 212 | 184 | 167 | 162 | 149 | 147 | 169 | 197 |
| Biochemistry | 928 | 923 | 914 | 835 | 819 | 860 | 923 | 997 |
| Biology | 741 | 773 | 909 | 887 | 838 | 1,023 | 1,018 | 1,068 |
| Biometry/epidemiology | 127 | 136 | 145 | 170 | 175 | 155 | 193 | 234 |
| Biophysics | 74 | 64 | 69 | 61 | 56 | 45 | 51 | 73 |
| Botany | 210 | 236 | 242 | 189 | 189 | 252 | 261 | 210 |
| Cell biology | 900 | 966 | 947 | 858 | 887 | 1,014 | 1,142 | 1,137 |
| Ecology | 57 | 72 | 75 | 79 | 75 | 96 | 96 | 106 |
| Entomology/parasitology | 85 | 85 | 64 | 83 | 83 | 75 | 90 | 94 |
| Genetics | 388 | 437 | 356 | 390 | 392 | 408 | 430 | 611 |
| Microbiology/immunology/virology | 865 | 965 | 901 | 1,017 | 979 | 974 | 993 | 1,090 |
| Nutrition | 127 | 145 | 134 | 170 | 160 | 142 | 128 | 123 |
| Pathology | 703 | 577 | 686 | 705 | 708 | 778 | 838 | 851 |
| Pharmacology | 616 | 590 | 592 | 565 | 566 | 614 | 659 | 757 |
| Physiology | 505 | 517 | 522 | 460 | 499 | 540 | 588 | 640 |
| Zoology | 40 | 54 | 37 | 45 | 42 | 36 | 32 | 28 |
| Biological sciences, nec | 817 | 835 | 930 | 977 | 981 | 1,199 | 1,029 | 1,136 |
| Communication[a] | ne | ne | ne | ne | 16 | 14 | 15 | 22 |
| Computer sciences | 79 | 71 | 88 | 96 | 79 | 85 | 100 | 126 |
| Earth, atmospheric, and ocean sciences | 365 | 404 | 445 | 389 | 382 | 468 | 487 | 602 |
| Atmospheric sciences | 30 | 33 | 33 | 28 | 28 | 26 | 34 | 51 |
| Geosciences | 138 | 146 | 154 | 148 | 151 | 186 | 165 | 185 |
| Oceanography | 110 | 118 | 115 | 129 | 129 | 147 | 161 | 160 |
| Earth/atmospheric/ocean sciences, nec | 87 | 107 | 143 | 84 | 74 | 109 | 127 | 206 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 4 | 13 | 14 | 23 |
| Mathematical sciences | 106 | 108 | 125 | 104 | 104 | 146 | 170 | 169 |
| Mathematics/applied mathematics | 93 | 90 | 107 | 94 | 93 | 122 | 152 | 155 |
| Statistics | 13 | 18 | 18 | 10 | 11 | 24 | 18 | 14 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 63 | 124 | 166 | 259 |
| Neuroscience[a] | na | na | na | na | 109 | 157 | 250 | 374 |
| Physical sciences | 1,387 | 1,417 | 1,403 | 1,358 | 1,345 | 1,443 | 1,669 | 1,611 |
| Astronomy | 69 | 79 | 81 | 81 | 81 | 112 | 143 | 133 |
| Chemistry | 992 | 988 | 978 | 923 | 908 | 930 | 1,089 | 986 |
| Physics | 294 | 319 | 314 | 322 | 324 | 366 | 400 | 444 |
| Physical sciences, nec | 32 | 31 | 30 | 32 | 32 | 35 | 37 | 48 |
| Psychology | 458 | 433 | 460 | 526 | 519 | 505 | 610 | 585 |
| Clinical psychology | 45 | 41 | 48 | 58 | 58 | 49 | 102 | 95 |
| Psychology, general | 299 | 262 | 263 | 286 | 281 | 309 | 336 | 322 |
| Psychology, nec | 114 | 130 | 149 | 182 | 180 | 147 | 172 | 168 |
| Social sciences | 165 | 171 | 181 | 207 | 202 | 242 | 253 | 302 |
| Agricultural economics | 7 | 10 | 11 | 15 | 13 | 16 | 16 | 11 |
| Anthropology (cultural/social) | 18 | 34 | 36 | 30 | 30 | 48 | 47 | 44 |
| Economics (except agricultural) | 8 | 3 | 2 | 13 | 15 | 8 | 18 | 12 |
| Geography | 11 | 10 | 18 | 10 | 10 | 16 | 23 | 23 |
| History and philosophy of science | 3 | 2 | 4 | 5 | 4 | 5 | 5 | 7 |
| Linguistics | 12 | 14 | 14 | 19 | 16 | 13 | 4 | 10 |
| Political science | 25 | 20 | 25 | 24 | 24 | 33 | 35 | 41 |

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Sociology | 44 | 39 | 26 | 36 | 30 | 25 | 34 | 48 |
| Sociology/anthropology | 5 | 3 | 3 | 0 | 0 | 2 | 1 | 0 |
| Social sciences, nec | 32 | 36 | 42 | 55 | 60 | 76 | 70 | 106 |
| Engineering | 704 | 730 | 823 | 835 | 843 | 1,103 | 1,385 | 1,427 |
| Aerospace engineering | 16 | 24 | 26 | 19 | 19 | 19 | 24 | 25 |
| Agricultural engineering | 14 | 20 | 20 | 32 | 32 | 32 | 30 | 38 |
| Architecture[a] | na | na | na | na | 2 | 4 | 11 | 5 |
| Biomedical engineering | 128 | 135 | 169 | 163 | 163 | 217 | 324 | 298 |
| Chemical engineering | 143 | 135 | 138 | 136 | 141 | 186 | 234 | 234 |
| Civil engineering[a] | 81 | 79 | 100 | 81 | 78 | 118 | 125 | 144 |
| Electrical engineering | 86 | 89 | 75 | 105 | 104 | 139 | 158 | 158 |
| Engineering science | 30 | 22 | 28 | 34 | 34 | 41 | 54 | 45 |
| Industrial engineering | 12 | 9 | 15 | 18 | 17 | 45 | 28 | 37 |
| Mechanical engineering | 59 | 60 | 68 | 78 | 78 | 106 | 141 | 151 |
| Metallurgical/materials engineering | 90 | 106 | 109 | 112 | 121 | 132 | 147 | 166 |
| Mining engineering | 0 | 1 | 3 | 0 | 1 | 1 | 0 | 0 |
| Nuclear engineering | 10 | 8 | 16 | 14 | 11 | 15 | 15 | 13 |
| Petroleum engineering | 1 | 2 | 5 | 6 | 6 | 6 | 7 | 14 |
| Engineering, nec | 34 | 40 | 51 | 37 | 36 | 42 | 87 | 99 |
| Health | 5,388 | 5,811 | 6,057 | 6,370 | 6,306 | 7,137 | 7,661 | 8,867 |
| Clinical medicine | 4,618 | 5,054 | 5,255 | 5,502 | 5,370 | 6,195 | 6,561 | 7,619 |
| Anesthesiology | 89 | 108 | 136 | 134 | 134 | 142 | 166 | 194 |
| Cardiology | 96 | 112 | 123 | 130 | 138 | 173 | 198 | 271 |
| Endocrinology | 120 | 127 | 138 | 147 | 152 | 170 | 233 | 228 |
| Gastroenterology | 86 | 85 | 98 | 103 | 103 | 101 | 107 | 115 |
| Hematology | 126 | 109 | 95 | 124 | 124 | 147 | 173 | 144 |
| Neurology[a] | 576 | 631 | 652 | 688 | 565 | 613 | 653 | 636 |
| Obstetrics/gynecology | 113 | 118 | 112 | 101 | 101 | 131 | 158 | 181 |
| Oncology/cancer research | 364 | 412 | 504 | 626 | 661 | 728 | 758 | 864 |
| Ophthalmology | 165 | 156 | 149 | 176 | 176 | 215 | 222 | 228 |
| Otorhinolaryngology | 52 | 55 | 59 | 57 | 57 | 55 | 61 | 56 |
| Pediatrics | 438 | 473 | 438 | 436 | 436 | 513 | 529 | 671 |
| Preventive medicine/community health | 160 | 146 | 139 | 174 | 180 | 229 | 245 | 345 |
| Psychiatry | 445 | 427 | 444 | 478 | 453 | 532 | 552 | 673 |
| Pulmonary disease | 64 | 60 | 48 | 72 | 72 | 91 | 97 | 121 |
| Radiology | 198 | 202 | 282 | 312 | 295 | 299 | 340 | 352 |
| Surgery | 327 | 370 | 366 | 361 | 351 | 385 | 441 | 432 |
| Clinical medicine, nec | 1,199 | 1,463 | 1,472 | 1,383 | 1,372 | 1,671 | 1,628 | 2,108 |
| Other health | 770 | 757 | 802 | 868 | 936 | 942 | 1,100 | 1,248 |
| Dental sciences | 71 | 74 | 77 | 87 | 115 | 116 | 140 | 174 |
| Nursing | 75 | 51 | 56 | 52 | 52 | 69 | 58 | 49 |
| Pharmaceutical sciences | 261 | 241 | 229 | 261 | 280 | 289 | 353 | 408 |

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 22 | 22 | 26 | 48 | 48 | 34 | 39 | 31 |
| Veterinary sciences | 184 | 218 | 221 | 208 | 250 | 244 | 243 | 236 |
| Other health, nec | 157 | 151 | 193 | 212 | 191 | 190 | 267 | 350 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 47,240 | 48,555 | 49,343 | 50,712 | 50,840 | 54,164 | 57,805 | 63,415 |
| U.S. citizens and permanent residents | 20,156 | 21,507 | 21,147 | 22,022 | 22,103 | 24,915 | 27,105 | 29,769 |
| Hispanic or Latino | na | na | na | na | na | na | na | 1,160 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 93 |
| Asian[c] | na | na | na | na | na | na | na | 5,174 |
| Black or African American | na | na | na | na | na | na | na | 898 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 92 |
| White | na | na | na | na | na | na | na | 15,689 |
| More than one race[c] | na | na | na | na | na | na | na | 140 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 6,523 |
| Temporary visa holders | 27,084 | 27,048 | 28,196 | 28,690 | 28,737 | 29,249 | 30,700 | 33,646 |
| Science and engineering | 34,065 | 34,456 | 34,887 | 35,894 | 36,223 | 38,203 | 40,804 | 44,051 |
| U.S. citizens and permanent residents | 13,969 | 14,078 | 14,111 | 14,903 | 15,107 | 16,274 | 18,175 | 20,419 |
| Hispanic or Latino | na | na | na | na | na | na | na | 763 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 59 |
| Asian[c] | na | na | na | na | na | na | na | 3,371 |
| Black or African American | na | na | na | na | na | na | na | 529 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 51 |
| White | na | na | na | na | na | na | na | 11,084 |
| More than one race[c] | na | na | na | na | na | na | na | 79 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 4,483 |
| Temporary visa holders | 20,096 | 20,378 | 20,776 | 20,991 | 21,116 | 21,929 | 22,629 | 23,632 |
| Science | 30,116 | 30,290 | 30,245 | 30,986 | 31,281 | 32,741 | 34,388 | 37,095 |
| U.S. citizens and permanent residents | 12,672 | 12,665 | 12,573 | 13,312 | 13,513 | 14,375 | 15,800 | 17,761 |
| Hispanic or Latino | na | na | na | na | na | na | na | 700 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 55 |
| Asian[c] | na | na | na | na | na | na | na | 2,784 |
| Black or African American | na | na | na | na | na | na | na | 465 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 44 |
| White | na | na | na | na | na | na | na | 9,906 |
| More than one race[c] | na | na | na | na | na | na | na | 68 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 3,739 |
| Temporary visa holders | 17,444 | 17,625 | 17,672 | 17,674 | 17,768 | 18,366 | 18,588 | 19,334 |
| Agricultural sciences | 959 | 1,007 | 927 | 948 | 985 | 1,147 | 1,083 | 1,195 |
| U.S. citizens and permanent residents | 431 | 433 | 384 | 413 | 422 | 604 | 573 | 611 |
| Hispanic or Latino | na | na | na | na | na | na | na | 24 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 4 |
| Asian[c] | na | na | na | na | na | na | na | 116 |
| Black or African American | na | na | na | na | na | na | na | 22 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 375 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 70 |
| Temporary visa holders | 528 | 574 | 543 | 535 | 563 | 543 | 510 | 584 |
| Biological sciences | 18,716 | 18,747 | 18,807 | 19,218 | 19,109 | 19,827 | 20,159 | 21,537 |
| U.S. citizens and permanent residents | 7,808 | 7,739 | 7,825 | 8,176 | 8,174 | 8,615 | 9,148 | 10,188 |
| Hispanic or Latino | na | na | na | na | na | na | na | 444 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 25 |
| Asian[c] | na | na | na | na | na | na | na | 1,850 |
| Black or African American | na | na | na | na | na | na | na | 298 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 29 |
| White | na | na | na | na | na | na | na | 5,426 |
| More than one race[c] | na | na | na | na | na | na | na | 42 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 2,074 |
| Temporary visa holders | 10,908 | 11,008 | 10,982 | 11,042 | 10,935 | 11,212 | 11,011 | 11,349 |
| Communication[a] | ne | ne | ne | ne | 30 | 32 | 38 | 60 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 17 | 20 | 28 | 37 |
| Hispanic or Latino | na | na | na | na | na | na | na | 2 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 1 |
| Black or African American | na | na | na | na | na | na | na | 2 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 25 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 7 |
| Temporary visa holders | ne | ne | ne | ne | 13 | 12 | 10 | 23 |
| Computer sciences | 384 | 406 | 467 | 516 | 456 | 493 | 594 | 748 |
| U.S. citizens and permanent residents | 162 | 164 | 168 | 191 | 166 | 195 | 272 | 313 |
| Hispanic or Latino | na | na | na | na | na | na | na | 8 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 2 |
| Asian[c] | na | na | na | na | na | na | na | 50 |
| Black or African American | na | na | na | na | na | na | na | 5 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 171 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 77 |
| Temporary visa holders | 222 | 242 | 299 | 325 | 290 | 298 | 322 | 435 |
| Earth, atmospheric, and ocean sciences | 1,263 | 1,364 | 1,495 | 1,322 | 1,250 | 1,339 | 1,424 | 1,760 |
| U.S. citizens and permanent residents | 695 | 739 | 735 | 671 | 612 | 643 | 714 | 951 |
| Hispanic or Latino | na | na | na | na | na | na | na | 28 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 6 |
| Asian[c] | na | na | na | na | na | na | na | 75 |
| Black or African American | na | na | na | na | na | na | na | 9 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 635 |
| More than one race[c] | na | na | na | na | na | na | na | 4 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 194 |
| Temporary visa holders | 568 | 625 | 760 | 651 | 638 | 696 | 710 | 809 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 8 | 19 | 22 | 30 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 4 | 15 | 15 | 22 |
| Hispanic or Latino | na | na | na | na | na | na | na | 0 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 3 |
| Black or African American | na | na | na | na | na | na | na | 2 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 17 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 0 |
| Temporary visa holders | ne | ne | ne | ne | 4 | 4 | 7 | 8 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Mathematical sciences | 468 | 500 | 579 | 621 | 624 | 723 | 737 | 756 |
| U.S. citizens and permanent residents | 212 | 263 | 283 | 303 | 303 | 356 | 383 | 391 |
| Hispanic or Latino | na | na | na | na | na | na | na | 9 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 1 |
| Asian[c] | na | na | na | na | na | na | na | 30 |
| Black or African American | na | na | na | na | na | na | na | 3 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 261 |
| More than one race[c] | na | na | na | na | na | na | na | 3 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 84 |
| Temporary visa holders | 256 | 237 | 296 | 318 | 321 | 367 | 354 | 365 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 244 | 348 | 459 | 765 |
| U.S. citizens and permanent residents | ne | ne | ne | ne | 156 | 193 | 237 | 450 |
| Hispanic or Latino | na | na | na | na | na | na | na | 17 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 45 |
| Black or African American | na | na | na | na | na | na | na | 6 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 279 |
| More than one race[c] | na | na | na | na | na | na | na | 2 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 101 |
| Temporary visa holders | ne | ne | ne | ne | 88 | 155 | 222 | 315 |
| Neuroscience[a] | na | na | na | na | 285 | 343 | 645 | 818 |
| U.S. citizens and permanent residents | na | na | na | na | 123 | 140 | 339 | 390 |
| Hispanic or Latino | na | na | na | na | na | na | na | 12 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 3 |
| Asian[c] | na | na | na | na | na | na | na | 61 |
| Black or African American | na | na | na | na | na | na | na | 12 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 1 |
| White | na | na | na | na | na | na | na | 218 |
| More than one race[c] | na | na | na | na | na | na | na | 3 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 80 |
| Temporary visa holders | na | na | na | na | 162 | 203 | 306 | 428 |
| Physical sciences | 7,059 | 7,011 | 6,703 | 6,760 | 6,719 | 6,885 | 7,447 | 7,703 |
| U.S. citizens and permanent residents | 2,491 | 2,484 | 2,337 | 2,478 | 2,470 | 2,512 | 2,834 | 3,198 |
| Hispanic or Latino | na | na | na | na | na | na | na | 92 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 11 |
| Asian[c] | na | na | na | na | na | na | na | 468 |
| Black or African American | na | na | na | na | na | na | na | 53 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 12 |
| White | na | na | na | na | na | na | na | 1,723 |
| More than one race[c] | na | na | na | na | na | na | na | 7 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 832 |
| Temporary visa holders | 4,568 | 4,527 | 4,366 | 4,282 | 4,249 | 4,373 | 4,613 | 4,505 |
| Psychology[b] | 902 | 884 | 873 | 1,106 | 1,088 | 1,077 | 1,219 | 1,077 |
| U.S. citizens and permanent residents | 626 | 585 | 603 | 740 | 733 | 753 | 892 | 765 |
| Hispanic or Latino | na | na | na | na | na | na | na | 37 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 1 |
| Asian[c] | na | na | na | na | na | na | na | 46 |
| Black or African American | na | na | na | na | na | na | na | 24 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 2 |
| White | na | na | na | na | na | na | na | 501 |
| More than one race[c] | na | na | na | na | na | na | na | 4 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 150 |
| Temporary visa holders | 276 | 299 | 270 | 366 | 355 | 324 | 327 | 312 |
| Social sciences | 365 | 371 | 394 | 495 | 483 | 508 | 561 | 646 |
| U.S. citizens and permanent residents | 247 | 258 | 238 | 340 | 333 | 329 | 365 | 445 |
| Hispanic or Latino | na | na | na | na | na | na | na | 27 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 2 |
| Asian[c] | na | na | na | na | na | na | na | 39 |
| Black or African American | na | na | na | na | na | na | na | 29 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 275 |
| More than one race[c] | na | na | na | na | na | na | na | 3 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 70 |
| Temporary visa holders | 118 | 113 | 156 | 155 | 150 | 179 | 196 | 201 |
| Engineering | 3,949 | 4,166 | 4,642 | 4,908 | 4,942 | 5,462 | 6,416 | 6,956 |
| U.S. citizens and permanent residents | 1,297 | 1,413 | 1,538 | 1,591 | 1,594 | 1,899 | 2,375 | 2,658 |
| Hispanic or Latino | na | na | na | na | na | na | na | 63 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 4 |
| Asian[c] | na | na | na | na | na | na | na | 587 |
| Black or African American | na | na | na | na | na | na | na | 64 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 7 |
| White | na | na | na | na | na | na | na | 1,178 |
| More than one race[c] | na | na | na | na | na | na | na | 11 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 744 |
| Temporary visa holders | 2,652 | 2,753 | 3,104 | 3,317 | 3,348 | 3,563 | 4,041 | 4,298 |
| Aerospace engineering | 141 | 153 | 165 | 178 | 178 | 154 | 168 | 191 |
| U.S. citizens and permanent residents | 46 | 56 | 48 | 59 | 59 | 56 | 69 | 69 |
| Hispanic or Latino | na | na | na | na | na | na | na | 2 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 15 |
| Black or African American | na | na | na | na | na | na | na | 1 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 30 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 21 |
| Temporary visa holders | 95 | 97 | 117 | 119 | 119 | 98 | 99 | 122 |
| Agricultural engineering | 79 | 89 | 116 | 139 | 139 | 135 | 110 | 119 |
| U.S. citizens and permanent residents | 25 | 22 | 34 | 26 | 26 | 38 | 32 | 37 |
| Hispanic or Latino | na | na | na | na | na | na | na | 4 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 17 |
| Black or African American | na | na | na | na | na | na | na | 3 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 13 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 0 |
| Temporary visa holders | 54 | 67 | 82 | 113 | 113 | 97 | 78 | 82 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Architecture[a] | na | na | na | na | 5 | 11 | 22 | 10 |
| U.S. citizens and permanent residents | na | na | na | na | 1 | 4 | 13 | 5 |
| Hispanic or Latino | na | na | na | na | na | na | na | 0 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 0 |
| Black or African American | na | na | na | na | na | na | na | 1 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 2 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 2 |
| Temporary visa holders | na | na | na | na | 4 | 7 | 9 | 5 |
| Biomedical engineering | 425 | 477 | 591 | 640 | 640 | 710 | 960 | 1,036 |
| U.S. citizens and permanent residents | 206 | 227 | 230 | 289 | 289 | 315 | 451 | 499 |
| Hispanic or Latino | na | na | na | na | na | na | na | 12 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 1 |
| Asian[c] | na | na | na | na | na | na | na | 107 |
| Black or African American | na | na | na | na | na | na | na | 24 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 1 |
| White | na | na | na | na | na | na | na | 181 |
| More than one race[c] | na | na | na | na | na | na | na | 1 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 172 |
| Temporary visa holders | 219 | 250 | 361 | 351 | 351 | 395 | 509 | 537 |
| Chemical engineering | 689 | 702 | 735 | 758 | 790 | 880 | 1,084 | 1,092 |
| U.S. citizens and permanent residents | 227 | 246 | 216 | 265 | 272 | 299 | 408 | 454 |
| Hispanic or Latino | na | na | na | na | na | na | na | 12 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 91 |
| Black or African American | na | na | na | na | na | na | na | 6 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 2 |
| White | na | na | na | na | na | na | na | 186 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 157 |
| Temporary visa holders | 462 | 456 | 519 | 493 | 518 | 581 | 676 | 638 |
| Civil engineering[a] | 313 | 384 | 458 | 419 | 417 | 465 | 535 | 570 |
| U.S. citizens and permanent residents | 105 | 139 | 203 | 164 | 159 | 171 | 212 | 244 |
| Hispanic or Latino | na | na | na | na | na | na | na | 8 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 2 |
| Asian[c] | na | na | na | na | na | na | na | 45 |
| Black or African American | na | na | na | na | na | na | na | 3 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 114 |
| More than one race[c] | na | na | na | na | na | na | na | 2 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 70 |
| Temporary visa holders | 208 | 245 | 255 | 255 | 258 | 294 | 323 | 326 |
| Electrical engineering | 654 | 689 | 721 | 885 | 884 | 987 | 1,025 | 1,097 |
| U.S. citizens and permanent residents | 191 | 248 | 233 | 246 | 247 | 375 | 323 | 324 |
| Hispanic or Latino | na | na | na | na | na | na | na | 4 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 1 |
| Asian[c] | na | na | na | na | na | na | na | 90 |
| Black or African American | na | na | na | na | na | na | na | 8 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 2 |
| White | na | na | na | na | na | na | na | 147 |
| More than one race[c] | na | na | na | na | na | na | na | 1 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 71 |
| Temporary visa holders | 463 | 441 | 488 | 639 | 637 | 612 | 702 | 773 |
| Engineering science | 180 | 168 | 224 | 192 | 183 | 214 | 226 | 243 |
| U.S. citizens and permanent residents | 56 | 53 | 82 | 59 | 55 | 101 | 112 | 94 |
| Hispanic or Latino | na | na | na | na | na | na | na | 3 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 20 |
| Black or African American | na | na | na | na | na | na | na | 2 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 65 |
| More than one race[c] | na | na | na | na | na | na | na | 1 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 3 |
| Temporary visa holders | 124 | 115 | 142 | 133 | 128 | 113 | 114 | 149 |
| Industrial engineering | 50 | 51 | 51 | 73 | 71 | 115 | 109 | 163 |
| U.S. citizens and permanent residents | 16 | 16 | 17 | 23 | 19 | 36 | 50 | 78 |
| Hispanic or Latino | na | na | na | na | na | na | na | 1 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 9 |
| Black or African American | na | na | na | na | na | na | na | 4 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 43 |
| More than one race[c] | na | na | na | na | na | na | na | 1 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 20 |
| Temporary visa holders | 34 | 35 | 34 | 50 | 52 | 79 | 59 | 85 |
| Mechanical engineering | 514 | 562 | 644 | 725 | 722 | 784 | 948 | 1,009 |
| U.S. citizens and permanent residents | 158 | 150 | 174 | 199 | 198 | 224 | 281 | 362 |
| Hispanic or Latino | na | na | na | na | na | na | na | 7 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 92 |
| Black or African American | na | na | na | na | na | na | na | 4 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 157 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 102 |
| Temporary visa holders | 356 | 412 | 470 | 526 | 524 | 560 | 667 | 647 |
| Metallurgical/materials engineering | 567 | 578 | 571 | 555 | 564 | 605 | 758 | 835 |
| U.S. citizens and permanent residents | 166 | 160 | 180 | 136 | 141 | 147 | 243 | 285 |
| Hispanic or Latino | na | na | na | na | na | na | na | 5 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 66 |
| Black or African American | na | na | na | na | na | na | na | 3 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 2 |
| White | na | na | na | na | na | na | na | 137 |
| More than one race[c] | na | na | na | na | na | na | na | 4 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 68 |
| Temporary visa holders | 401 | 418 | 391 | 419 | 423 | 458 | 515 | 550 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 9 | 8 | 11 | 4 | 5 | 5 | 4 | 6 |
| U.S. citizens and permanent residents | 3 | 3 | 5 | 2 | 2 | 1 | 1 | 1 |
| Hispanic or Latino | na | na | na | na | na | na | na | 0 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 0 |
| Black or African American | na | na | na | na | na | na | na | 0 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 1 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 0 |
| Temporary visa holders | 6 | 5 | 6 | 2 | 3 | 4 | 3 | 5 |
| Nuclear engineering | 67 | 41 | 85 | 77 | 73 | 85 | 90 | 107 |
| U.S. citizens and permanent residents | 25 | 13 | 27 | 26 | 25 | 31 | 35 | 55 |
| Hispanic or Latino | na | na | na | na | na | na | na | 0 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 6 |
| Black or African American | na | na | na | na | na | na | na | 1 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 30 |
| More than one race[c] | na | na | na | na | na | na | na | 1 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 17 |
| Temporary visa holders | 42 | 28 | 58 | 51 | 48 | 54 | 55 | 52 |
| Petroleum engineering | 14 | 13 | 18 | 22 | 22 | 28 | 36 | 46 |
| U.S. citizens and permanent residents | 3 | 3 | 3 | 7 | 7 | 5 | 12 | 12 |
| Hispanic or Latino | na | na | na | na | na | na | na | 1 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 4 |
| Black or African American | na | na | na | na | na | na | na | 0 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 4 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 3 |
| Temporary visa holders | 11 | 10 | 15 | 15 | 15 | 23 | 24 | 34 |
| Engineering, nec | 247 | 251 | 252 | 241 | 249 | 284 | 341 | 432 |
| U.S. citizens and permanent residents | 70 | 77 | 86 | 90 | 94 | 96 | 133 | 139 |
| Hispanic or Latino | na | na | na | na | na | na | na | 4 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 0 |
| Asian[c] | na | na | na | na | na | na | na | 25 |
| Black or African American | na | na | na | na | na | na | na | 4 |
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 0 |
| White | na | na | na | na | na | na | na | 68 |
| More than one race[c] | na | na | na | na | na | na | na | 0 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 38 |
| Temporary visa holders | 177 | 174 | 166 | 151 | 155 | 188 | 208 | 293 |
| Health[a] | 13,175 | 14,099 | 14,456 | 14,818 | 14,617 | 15,961 | 17,001 | 19,364 |
| U.S. citizens and permanent residents | 6,187 | 7,429 | 7,036 | 7,119 | 6,996 | 8,641 | 8,930 | 9,350 |
| Hispanic or Latino | na | na | na | na | na | na | na | 397 |
| Not Hispanic or Latino | | | | | | | | |
| American Indian or Alaska Native | na | na | na | na | na | na | na | 34 |
| Asian[c] | na | na | na | na | na | na | na | 1,803 |
| Black or African American | na | na | na | na | na | na | na | 369 |

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

| Field, citizenship, ethnicity, and race | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Native Hawaiian or Other Pacific Islander[c] | na | na | na | na | na | na | na | 41 |
| White | na | na | na | na | na | na | na | 4,605 |
| More than one race[c] | na | na | na | na | na | na | na | 61 |
| Unknown ethnicity/race | na | na | na | na | na | na | na | 2,040 |
| Temporary visa holders | 6,988 | 6,670 | 7,420 | 7,699 | 7,621 | 7,320 | 8,071 | 10,014 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field in prior years.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer science/human science" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

[c] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 26,482 | 27,218 | 27,719 | 28,069 | 28,187 | 29,686 | 32,467 | 35,279 |
| Science and engineering | 20,571 | 20,917 | 21,355 | 21,539 | 21,687 | 22,866 | 24,622 | 26,180 |
| Science | 18,206 | 18,311 | 18,476 | 18,538 | 18,653 | 19,402 | 20,533 | 21,893 |
| Agricultural sciences | 894 | 920 | 857 | 886 | 923 | 1,097 | 1,033 | 1,141 |
| Biological sciences | 10,404 | 10,428 | 10,541 | 10,677 | 10,600 | 10,844 | 11,270 | 11,632 |
| Anatomy | 329 | 283 | 257 | 244 | 220 | 231 | 230 | 290 |
| Biochemistry | 1,473 | 1,466 | 1,468 | 1,393 | 1,386 | 1,310 | 1,418 | 1,484 |
| Biology | 997 | 998 | 1,203 | 1,136 | 1,119 | 1,217 | 1,209 | 1,276 |
| Biometry/epidemiology | 119 | 139 | 179 | 184 | 193 | 161 | 197 | 227 |
| Biophysics | 62 | 44 | 75 | 49 | 49 | 37 | 57 | 41 |
| Botany | 559 | 574 | 627 | 601 | 599 | 611 | 625 | 589 |
| Cell biology | 1,023 | 1,064 | 1,061 | 1,107 | 1,124 | 1,151 | 1,363 | 1,390 |
| Ecology | 126 | 145 | 145 | 157 | 149 | 158 | 157 | 156 |
| Entomology/parasitology | 274 | 268 | 232 | 235 | 235 | 210 | 242 | 223 |
| Genetics | 404 | 373 | 378 | 349 | 346 | 344 | 385 | 442 |
| Microbiology/immunology/virology | 1,179 | 1,188 | 1,180 | 1,179 | 1,143 | 1,111 | 1,161 | 1,284 |
| Nutrition | 228 | 253 | 222 | 294 | 268 | 224 | 200 | 193 |
| Pathology | 585 | 601 | 538 | 507 | 498 | 587 | 674 | 708 |
| Pharmacology | 957 | 930 | 905 | 874 | 874 | 895 | 988 | 1,009 |
| Physiology | 782 | 793 | 796 | 734 | 792 | 770 | 842 | 830 |
| Zoology | 100 | 132 | 103 | 103 | 101 | 68 | 78 | 76 |
| Biological sciences, nec | 1,207 | 1,177 | 1,172 | 1,531 | 1,504 | 1,759 | 1,444 | 1,414 |
| Communication[a] | ne | ne | ne | ne | 14 | 9 | 11 | 27 |
| Computer sciences | 229 | 256 | 290 | 294 | 247 | 266 | 319 | 426 |
| Earth, atmospheric, and ocean sciences | 940 | 1,045 | 1,164 | 993 | 921 | 953 | 1,004 | 1,326 |
| Atmospheric sciences | 128 | 119 | 124 | 109 | 111 | 105 | 116 | 173 |
| Geosciences | 273 | 290 | 310 | 300 | 304 | 294 | 271 | 324 |
| Oceanography | 225 | 280 | 264 | 243 | 243 | 224 | 296 | 267 |
| Earth/atmospheric/ocean sciences, nec | 314 | 356 | 466 | 341 | 263 | 330 | 321 | 562 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 8 | 19 | 20 | 24 |
| Mathematical sciences | 297 | 283 | 369 | 423 | 418 | 450 | 446 | 434 |
| Mathematics/applied mathematics | 270 | 262 | 329 | 398 | 391 | 410 | 418 | 392 |
| Statistics | 27 | 21 | 40 | 25 | 27 | 40 | 28 | 42 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 208 | 308 | 393 | 627 |
| Neuroscience[a] | na | na | na | na | 92 | 97 | 277 | 337 |
| Physical sciences | 4,742 | 4,684 | 4,502 | 4,383 | 4,341 | 4,453 | 4,856 | 4,998 |
| Astronomy | 227 | 217 | 220 | 241 | 241 | 243 | 289 | 287 |
| Chemistry | 2,894 | 2,828 | 2,725 | 2,608 | 2,563 | 2,552 | 2,802 | 2,743 |
| Physics | 1,455 | 1,491 | 1,433 | 1,412 | 1,415 | 1,519 | 1,622 | 1,787 |
| Physical sciences, nec | 166 | 148 | 124 | 122 | 122 | 139 | 143 | 181 |
| Psychology | 480 | 474 | 513 | 583 | 582 | 586 | 584 | 567 |
| Clinical psychology | 38 | 46 | 35 | 46 | 46 | 42 | 52 | 52 |
| Psychology, general | 316 | 291 | 328 | 338 | 331 | 376 | 333 | 320 |
| Psychology, nec | 126 | 137 | 150 | 199 | 205 | 168 | 199 | 195 |
| Social sciences | 220 | 221 | 240 | 299 | 299 | 320 | 320 | 354 |
| Agricultural economics | 34 | 39 | 32 | 46 | 42 | 44 | 41 | 41 |
| Anthropology (cultural/social) | 27 | 39 | 40 | 53 | 53 | 63 | 57 | 56 |
| Economics (except agricultural) | 16 | 6 | 8 | 19 | 23 | 22 | 22 | 18 |
| Geography | 23 | 37 | 51 | 34 | 34 | 36 | 50 | 53 |
| History and philosophy of science | 0 | 5 | 2 | 3 | 3 | 2 | 3 | 4 |
| Linguistics | 10 | 7 | 7 | 12 | 12 | 13 | 8 | 13 |
| Political science | 29 | 20 | 26 | 22 | 22 | 23 | 31 | 29 |

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Sociology | 32 | 27 | 23 | 18 | 18 | 13 | 26 | 45 |
| Sociology/anthropology | 2 | 2 | 5 | 0 | 0 | 1 | 0 | 0 |
| Social sciences, nec | 47 | 39 | 46 | 92 | 92 | 103 | 82 | 95 |
| Engineering | 2,365 | 2,606 | 2,879 | 3,001 | 3,034 | 3,464 | 4,089 | 4,287 |
| Aerospace engineering | 87 | 102 | 117 | 111 | 111 | 96 | 114 | 118 |
| Agricultural engineering | 76 | 80 | 108 | 128 | 128 | 128 | 110 | 110 |
| Architecture[a] | na | na | na | na | 2 | 7 | 18 | 7 |
| Biomedical engineering | 211 | 231 | 260 | 273 | 273 | 306 | 438 | 475 |
| Chemical engineering | 454 | 479 | 498 | 502 | 534 | 602 | 744 | 719 |
| Civil engineering[a] | 179 | 241 | 319 | 278 | 279 | 322 | 382 | 391 |
| Electrical engineering | 401 | 459 | 490 | 570 | 569 | 692 | 708 | 727 |
| Engineering science | 45 | 22 | 51 | 31 | 22 | 69 | 74 | 61 |
| Industrial engineering | 45 | 41 | 43 | 50 | 45 | 90 | 83 | 113 |
| Mechanical engineering | 295 | 350 | 386 | 466 | 463 | 493 | 586 | 617 |
| Metallurgical/materials engineering | 383 | 402 | 386 | 359 | 368 | 394 | 500 | 567 |
| Mining engineering | 9 | 8 | 11 | 4 | 5 | 5 | 4 | 6 |
| Nuclear engineering | 43 | 32 | 45 | 47 | 43 | 51 | 60 | 66 |
| Petroleum engineering | 4 | 7 | 12 | 13 | 13 | 15 | 23 | 27 |
| Engineering, nec | 133 | 152 | 153 | 169 | 179 | 194 | 245 | 283 |
| Health | 5,911 | 6,301 | 6,364 | 6,530 | 6,500 | 6,820 | 7,845 | 9,099 |
| Clinical medicine | 4,466 | 4,757 | 4,795 | 4,873 | 4,746 | 5,041 | 5,812 | 6,751 |
| Anesthesiology | 96 | 112 | 110 | 143 | 143 | 139 | 161 | 150 |
| Cardiology | 89 | 132 | 132 | 118 | 118 | 171 | 185 | 311 |
| Endocrinology | 138 | 131 | 157 | 136 | 136 | 145 | 163 | 160 |
| Gastroenterology | 108 | 98 | 119 | 73 | 73 | 90 | 116 | 150 |
| Hematology | 175 | 165 | 177 | 150 | 150 | 192 | 241 | 173 |
| Neurology[a] | 425 | 521 | 509 | 490 | 387 | 393 | 514 | 467 |
| Obstetrics/gynecology | 92 | 91 | 113 | 97 | 97 | 114 | 142 | 163 |
| Oncology/cancer research | 539 | 605 | 558 | 657 | 670 | 590 | 691 | 851 |
| Ophthalmology | 126 | 114 | 124 | 116 | 112 | 162 | 175 | 186 |
| Otorhinolaryngology | 60 | 61 | 77 | 65 | 65 | 70 | 69 | 75 |
| Pediatrics | 403 | 414 | 399 | 429 | 429 | 427 | 441 | 505 |
| Preventive medicine/community health | 168 | 169 | 180 | 216 | 219 | 239 | 264 | 414 |
| Psychiatry | 331 | 341 | 346 | 333 | 307 | 329 | 386 | 441 |
| Pulmonary disease | 72 | 74 | 85 | 104 | 104 | 113 | 110 | 148 |
| Radiology | 138 | 152 | 181 | 208 | 208 | 220 | 299 | 313 |
| Surgery | 416 | 437 | 465 | 448 | 435 | 473 | 554 | 612 |
| Clinical medicine, nec | 1,090 | 1,140 | 1,063 | 1,090 | 1,093 | 1,174 | 1,301 | 1,632 |
| Other health | 1,445 | 1,544 | 1,569 | 1,657 | 1,754 | 1,779 | 2,033 | 2,348 |
| Dental sciences | 131 | 142 | 149 | 153 | 187 | 179 | 189 | 261 |
| Nursing | 56 | 45 | 45 | 52 | 52 | 66 | 50 | 47 |
| Pharmaceutical sciences | 712 | 722 | 713 | 731 | 773 | 779 | 931 | 1,062 |

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 30 | 32 | 45 | 53 | 53 | 44 | 41 | 39 |
| Veterinary sciences | 305 | 370 | 368 | 319 | 379 | 414 | 427 | 399 |
| Other health, nec | 211 | 233 | 249 | 349 | 310 | 297 | 395 | 540 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 20,758 | 21,337 | 21,624 | 22,643 | 22,653 | 24,478 | 25,338 | 28,136 |
| Science and engineering | 13,494 | 13,539 | 13,532 | 14,355 | 14,536 | 15,337 | 16,182 | 17,871 |
| Science | 11,910 | 11,979 | 11,769 | 12,448 | 12,628 | 13,339 | 13,855 | 15,202 |
| Agricultural sciences | 65 | 87 | 70 | 62 | 62 | 50 | 50 | 54 |
| Biological sciences | 8,312 | 8,319 | 8,266 | 8,541 | 8,509 | 8,983 | 8,889 | 9,905 |
| Anatomy | 148 | 134 | 120 | 120 | 121 | 119 | 141 | 147 |
| Biochemistry | 1,053 | 1,087 | 948 | 972 | 919 | 1,004 | 933 | 1,049 |
| Biology | 965 | 1,013 | 1,116 | 1,302 | 1,222 | 1,289 | 1,221 | 1,279 |
| Biometry/epidemiology | 119 | 120 | 121 | 153 | 156 | 169 | 198 | 239 |
| Biophysics | 156 | 147 | 149 | 138 | 137 | 128 | 123 | 199 |
| Botany | 12 | 16 | 9 | 11 | 11 | 14 | 15 | 14 |
| Cell biology | 1,310 | 1,381 | 1,346 | 1,280 | 1,305 | 1,231 | 1,275 | 1,406 |
| Ecology | 44 | 42 | 47 | 51 | 51 | 63 | 76 | 82 |
| Entomology/parasitology | 15 | 13 | 9 | 11 | 11 | 12 | 6 | 10 |
| Genetics | 537 | 658 | 473 | 585 | 594 | 645 | 669 | 947 |
| Microbiology/immunology/virology | 972 | 1,070 | 970 | 1,161 | 1,115 | 1,093 | 1,104 | 1,090 |
| Nutrition | 52 | 53 | 37 | 30 | 30 | 19 | 14 | 26 |
| Pathology | 1,242 | 799 | 1,049 | 1,066 | 1,078 | 1,204 | 1,117 | 1,089 |
| Pharmacology | 573 | 584 | 531 | 471 | 475 | 516 | 535 | 647 |
| Physiology | 497 | 503 | 465 | 454 | 527 | 559 | 585 | 618 |
| Zoology | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biological sciences, nec | 617 | 697 | 876 | 736 | 757 | 918 | 877 | 1,063 |
| Communication[a] | ne | ne | ne | ne | 16 | 23 | 27 | 33 |
| Computer sciences | 155 | 150 | 177 | 222 | 209 | 227 | 275 | 322 |
| Earth, atmospheric, and ocean sciences | 323 | 319 | 331 | 329 | 329 | 386 | 420 | 434 |
| Atmospheric sciences | 0 | 4 | 4 | 8 | 8 | 11 | 8 | 11 |
| Geosciences | 234 | 231 | 232 | 211 | 211 | 246 | 265 | 277 |
| Oceanography | 75 | 67 | 82 | 94 | 94 | 106 | 114 | 65 |
| Earth/atmospheric/ocean sciences, nec | 14 | 17 | 13 | 16 | 16 | 23 | 33 | 81 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 0 | 0 | 2 | 6 |
| Mathematical sciences | 171 | 217 | 210 | 198 | 206 | 273 | 291 | 322 |
| Mathematics/applied mathematics | 150 | 181 | 183 | 181 | 180 | 233 | 257 | 288 |
| Statistics | 21 | 36 | 27 | 17 | 26 | 40 | 34 | 34 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 36 | 40 | 66 | 138 |
| Neuroscience[a] | na | na | na | na | 193 | 246 | 368 | 481 |
| Physical sciences | 2,317 | 2,327 | 2,201 | 2,377 | 2,378 | 2,432 | 2,591 | 2,705 |
| Astronomy | 140 | 171 | 140 | 159 | 160 | 189 | 218 | 245 |
| Chemistry | 1,444 | 1,388 | 1,320 | 1,389 | 1,389 | 1,391 | 1,417 | 1,498 |
| Physics | 683 | 717 | 697 | 791 | 791 | 808 | 895 | 841 |
| Physical sciences, nec | 50 | 51 | 44 | 38 | 38 | 44 | 61 | 121 |
| Psychology | 422 | 410 | 360 | 523 | 506 | 491 | 635 | 510 |
| Clinical psychology | 29 | 18 | 27 | 26 | 26 | 23 | 78 | 71 |
| Psychology, general | 282 | 288 | 209 | 360 | 355 | 356 | 422 | 314 |
| Psychology, nec | 111 | 104 | 124 | 137 | 125 | 112 | 135 | 125 |
| Social sciences | 145 | 150 | 154 | 196 | 184 | 188 | 241 | 292 |
| Agricultural economics | 0 | 1 | 4 | 2 | 2 | 1 | 2 | 3 |
| Anthropology (cultural/social) | 27 | 26 | 21 | 27 | 27 | 25 | 20 | 27 |
| Economics (except agricultural) | 4 | 7 | 8 | 14 | 14 | 13 | 43 | 29 |
| Geography | 8 | 5 | 12 | 6 | 6 | 4 | 8 | 9 |
| History and philosophy of science | 6 | 4 | 6 | 10 | 6 | 7 | 6 | 9 |
| Linguistics | 19 | 17 | 18 | 14 | 8 | 8 | 6 | 14 |
| Political science | 15 | 22 | 36 | 22 | 22 | 32 | 46 | 56 |

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Sociology | 32 | 26 | 14 | 42 | 35 | 29 | 33 | 36 |
| Sociology/anthropology | 11 | 8 | 1 | 1 | 1 | 1 | 3 | 0 |
| Social sciences, nec | 23 | 34 | 34 | 58 | 63 | 68 | 74 | 109 |
| Engineering | 1,584 | 1,560 | 1,763 | 1,907 | 1,908 | 1,998 | 2,327 | 2,669 |
| Aerospace engineering | 54 | 51 | 48 | 67 | 67 | 58 | 54 | 73 |
| Agricultural engineering | 3 | 9 | 8 | 11 | 11 | 7 | 0 | 9 |
| Architecture[a] | na | na | na | na | 3 | 4 | 4 | 3 |
| Biomedical engineering | 214 | 246 | 331 | 367 | 367 | 404 | 522 | 561 |
| Chemical engineering | 235 | 223 | 237 | 256 | 256 | 278 | 340 | 373 |
| Civil engineering[a] | 134 | 143 | 139 | 141 | 138 | 143 | 153 | 179 |
| Electrical engineering | 253 | 230 | 231 | 315 | 315 | 295 | 317 | 370 |
| Engineering science | 135 | 146 | 173 | 161 | 161 | 145 | 152 | 182 |
| Industrial engineering | 5 | 10 | 8 | 23 | 26 | 25 | 26 | 50 |
| Mechanical engineering | 219 | 212 | 258 | 259 | 259 | 291 | 362 | 392 |
| Metallurgical/materials engineering | 184 | 176 | 185 | 196 | 196 | 211 | 258 | 268 |
| Mining engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nuclear engineering | 24 | 9 | 40 | 30 | 30 | 34 | 30 | 41 |
| Petroleum engineering | 10 | 6 | 6 | 9 | 9 | 13 | 13 | 19 |
| Engineering, nec | 114 | 99 | 99 | 72 | 70 | 90 | 96 | 149 |
| Health | 7,264 | 7,798 | 8,092 | 8,288 | 8,117 | 9,141 | 9,156 | 10,265 |
| Clinical medicine | 7,011 | 7,566 | 7,789 | 7,932 | 7,726 | 8,796 | 8,789 | 9,859 |
| Anesthesiology | 178 | 189 | 225 | 191 | 191 | 256 | 274 | 327 |
| Cardiology | 275 | 271 | 288 | 276 | 314 | 344 | 347 | 389 |
| Endocrinology | 124 | 139 | 130 | 163 | 177 | 189 | 312 | 297 |
| Gastroenterology | 127 | 132 | 128 | 172 | 172 | 146 | 153 | 170 |
| Hematology | 103 | 70 | 66 | 143 | 143 | 152 | 188 | 179 |
| Neurology[a] | 1,020 | 960 | 1,056 | 1,124 | 917 | 970 | 904 | 861 |
| Obstetrics/gynecology | 266 | 256 | 221 | 85 | 85 | 114 | 137 | 170 |
| Oncology/cancer research | 337 | 372 | 598 | 775 | 838 | 981 | 990 | 1,052 |
| Ophthalmology | 258 | 258 | 216 | 259 | 259 | 304 | 287 | 337 |
| Otorhinolaryngology | 86 | 88 | 78 | 60 | 60 | 67 | 68 | 65 |
| Pediatrics | 502 | 566 | 538 | 472 | 472 | 558 | 562 | 704 |
| Preventive medicine/community health | 123 | 118 | 96 | 126 | 132 | 140 | 131 | 166 |
| Psychiatry | 480 | 514 | 466 | 522 | 484 | 559 | 532 | 625 |
| Pulmonary disease | 98 | 80 | 51 | 94 | 94 | 124 | 141 | 139 |
| Radiology | 471 | 478 | 656 | 677 | 633 | 625 | 678 | 721 |
| Surgery | 726 | 752 | 670 | 795 | 774 | 776 | 788 | 645 |
| Clinical medicine, nec | 1,837 | 2,323 | 2,306 | 1,998 | 1,981 | 2,491 | 2,297 | 3,012 |
| Other health | 253 | 232 | 303 | 356 | 391 | 345 | 367 | 406 |
| Dental sciences | 12 | 27 | 43 | 53 | 85 | 91 | 102 | 97 |
| Nursing | 22 | 13 | 16 | 13 | 13 | 26 | 20 | 8 |
| Pharmaceutical sciences | 11 | 20 | 5 | 25 | 25 | 30 | 46 | 40 |

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

| Field | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Speech pathology/audiology | 8 | 8 | 7 | 31 | 31 | 15 | 17 | 15 |
| Veterinary sciences | 78 | 62 | 84 | 101 | 119 | 72 | 43 | 65 |
| Other health, nec | 122 | 102 | 148 | 133 | 118 | 111 | 139 | 181 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.
[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| All sources | 47,240 | 48,555 | 49,343 | 50,712 | 50,840 | 54,164 | 57,805 | 63,415 |
| Federal | 33,653 | 34,091 | 33,819 | 32,538 | 32,602 | 32,362 | 35,533 | 32,804 |
| DOD | na | na | na | na | na | na | na | 2,374 |
| DOE | na | na | na | na | na | na | na | 1,913 |
| HHS | na | na | na | na | na | na | na | 19,996 |
| NIH | na | na | na | na | na | na | na | 19,309 |
| Other HHS | na | na | na | na | na | na | na | 687 |
| NASA | na | na | na | na | na | na | na | 614 |
| NSF | na | na | na | na | na | na | na | 3,907 |
| USDA | na | na | na | na | na | na | na | 629 |
| Other | na | na | na | na | na | na | na | 2,894 |
| Federal, not reported | na | na | na | na | na | na | na | 477 |
| Nonfederal | 13,587 | 14,464 | 15,524 | 18,174 | 18,238 | 21,802 | 22,272 | 17,862 |
| Institutional | na | na | na | na | na | na | na | 8,840 |
| Domestic | na | na | na | na | na | na | na | 7,302 |
| Foreign | na | na | na | na | na | na | na | 1,463 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 257 |
| Self-support | na | na | na | na | na | na | na | 396 |
| Unknown/not reported | na | na | na | na | na | na | na | 12,353 |
| Science and engineering | 34,065 | 34,456 | 34,887 | 35,894 | 36,223 | 38,203 | 40,804 | 44,051 |
| Federal | 25,226 | 24,807 | 24,639 | 23,361 | 23,564 | 23,411 | 25,996 | 24,367 |
| DOD | na | na | na | na | na | na | na | 2,034 |
| DOE | na | na | na | na | na | na | na | 1,893 |
| HHS | na | na | na | na | na | na | na | 12,707 |
| NIH | na | na | na | na | na | na | na | 12,270 |
| Other HHS | na | na | na | na | na | na | na | 437 |
| NASA | na | na | na | na | na | na | na | 593 |
| NSF | na | na | na | na | na | na | na | 3,859 |
| USDA | na | na | na | na | na | na | na | 592 |
| Other | na | na | na | na | na | na | na | 2,232 |
| Federal, not reported | na | na | na | na | na | na | na | 457 |
| Nonfederal | 8,839 | 9,649 | 10,248 | 12,533 | 12,659 | 14,792 | 14,808 | 12,040 |
| Institutional | na | na | na | na | na | na | na | 5,988 |
| Domestic | na | na | na | na | na | na | na | 4,686 |
| Foreign | na | na | na | na | na | na | na | 1,125 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 241 |
| Self-support | na | na | na | na | na | na | na | 263 |
| Unknown/not reported | na | na | na | na | na | na | na | 7,381 |
| Science | 30,116 | 30,290 | 30,245 | 30,986 | 31,281 | 32,741 | 34,388 | 37,095 |
| Federal | 22,331 | 21,997 | 21,605 | 20,486 | 20,675 | 20,441 | 22,270 | 20,766 |
| DOD | na | na | na | na | na | na | na | 1,197 |
| DOE | na | na | na | na | na | na | na | 1,236 |
| HHS | na | na | na | na | na | na | na | 11,930 |
| NIH | na | na | na | na | na | na | na | 11,542 |
| Other HHS | na | na | na | na | na | na | na | 388 |
| NASA | na | na | na | na | na | na | na | 495 |
| NSF | na | na | na | na | na | na | na | 3,154 |
| USDA | na | na | na | na | na | na | na | 556 |
| Other | na | na | na | na | na | na | na | 1,741 |
| Federal, not reported | na | na | na | na | na | na | na | 457 |
| Nonfederal | 7,785 | 8,293 | 8,640 | 10,500 | 10,606 | 12,300 | 12,118 | 10,019 |
| Institutional | na | na | na | na | na | na | na | 5,004 |
| Domestic | na | na | na | na | na | na | na | 3,925 |
| Foreign | na | na | na | na | na | na | na | 849 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 241 |
| Self-support | na | na | na | na | na | na | na | 205 |
| Unknown/not reported | na | na | na | na | na | na | na | 6,105 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Agricultural sciences | 959 | 1,007 | 927 | 948 | 985 | 1,147 | 1,083 | 1,195 |
| Federal | 636 | 639 | 608 | 512 | 537 | 507 | 600 | 631 |
| DOD | na | na | na | na | na | na | na | 15 |
| DOE | na | na | na | na | na | na | na | 34 |
| HHS | na | na | na | na | na | na | na | 57 |
| NIH | na | na | na | na | na | na | na | 49 |
| Other HHS | na | na | na | na | na | na | na | 8 |
| NASA | na | na | na | na | na | na | na | 1 |
| NSF | na | na | na | na | na | na | na | 108 |
| USDA | na | na | na | na | na | na | na | 278 |
| Other | na | na | na | na | na | na | na | 138 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 323 | 368 | 319 | 436 | 448 | 640 | 483 | 514 |
| Institutional | na | na | na | na | na | na | na | 301 |
| Domestic | na | na | na | na | na | na | na | 189 |
| Foreign | na | na | na | na | na | na | na | 24 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 17 |
| Unknown/not reported | na | na | na | na | na | na | na | 33 |
| Biological sciences | 18,716 | 18,747 | 18,807 | 19,218 | 19,109 | 19,827 | 20,159 | 21,537 |
| Federal | 13,827 | 13,679 | 13,497 | 12,904 | 12,835 | 12,502 | 13,124 | 12,578 |
| DOD | na | na | na | na | na | na | na | 415 |
| DOE | na | na | na | na | na | na | na | 203 |
| HHS | na | na | na | na | na | na | na | 9,562 |
| NIH | na | na | na | na | na | na | na | 9,336 |
| Other HHS | na | na | na | na | na | na | na | 226 |
| NASA | na | na | na | na | na | na | na | 46 |
| NSF | na | na | na | na | na | na | na | 900 |
| USDA | na | na | na | na | na | na | na | 236 |
| Other | na | na | na | na | na | na | na | 759 |
| Federal, not reported | na | na | na | na | na | na | na | 457 |
| Nonfederal | 4,889 | 5,068 | 5,310 | 6,314 | 6,274 | 7,325 | 7,035 | 5,386 |
| Institutional | na | na | na | na | na | na | na | 2,445 |
| Domestic | na | na | na | na | na | na | na | 2,273 |
| Foreign | na | na | na | na | na | na | na | 427 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 241 |
| Self-support | na | na | na | na | na | na | na | 83 |
| Unknown/not reported | na | na | na | na | na | na | na | 3,490 |
| Communication[a] | ne | ne | ne | ne | 30 | 32 | 38 | 60 |
| Federal | ne | ne | ne | ne | 3 | 3 | 10 | 20 |
| DOD | na | na | na | na | na | na | na | 6 |
| DOE | na | na | na | na | na | na | na | 0 |
| HHS | na | na | na | na | na | na | na | 12 |
| NIH | na | na | na | na | na | na | na | 11 |
| Other HHS | na | na | na | na | na | na | na | 1 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 2 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 0 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | ne | ne | ne | ne | 27 | 29 | 28 | 31 |
| Institutional | na | na | na | na | na | na | na | 17 |
| Domestic | na | na | na | na | na | na | na | 9 |
| Foreign | na | na | na | na | na | na | na | 5 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 9 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Computer sciences | 384 | 406 | 467 | 516 | 456 | 493 | 594 | 748 |
| Federal | 273 | 270 | 299 | 307 | 291 | 302 | 392 | 448 |
| DOD | na | na | na | na | na | na | na | 106 |
| DOE | na | na | na | na | na | na | na | 24 |
| HHS | na | na | na | na | na | na | na | 60 |
| NIH | na | na | na | na | na | na | na | 54 |
| Other HHS | na | na | na | na | na | na | na | 6 |
| NASA | na | na | na | na | na | na | na | 10 |
| NSF | na | na | na | na | na | na | na | 195 |
| USDA | na | na | na | na | na | na | na | 2 |
| Other | na | na | na | na | na | na | na | 51 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 111 | 136 | 168 | 209 | 165 | 191 | 202 | 204 |
| Institutional | na | na | na | na | na | na | na | 90 |
| Domestic | na | na | na | na | na | na | na | 90 |
| Foreign | na | na | na | na | na | na | na | 24 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 7 |
| Unknown/not reported | na | na | na | na | na | na | na | 89 |
| Earth, atmospheric, and ocean sciences | 1,263 | 1,364 | 1,495 | 1,322 | 1,250 | 1,339 | 1,424 | 1,760 |
| Federal | 1,029 | 1,029 | 1,046 | 797 | 768 | 808 | 898 | 806 |
| DOD | na | na | na | na | na | na | na | 59 |
| DOE | na | na | na | na | na | na | na | 55 |
| HHS | na | na | na | na | na | na | na | 22 |
| NIH | na | na | na | na | na | na | na | 19 |
| Other HHS | na | na | na | na | na | na | na | 3 |
| NASA | na | na | na | na | na | na | na | 141 |
| NSF | na | na | na | na | na | na | na | 316 |
| USDA | na | na | na | na | na | na | na | 14 |
| Other | na | na | na | na | na | na | na | 199 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 234 | 335 | 449 | 525 | 482 | 531 | 526 | 541 |
| Institutional | na | na | na | na | na | na | na | 326 |
| Domestic | na | na | na | na | na | na | na | 163 |
| Foreign | na | na | na | na | na | na | na | 52 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 9 |
| Unknown/not reported | na | na | na | na | na | na | na | 404 |
| Family and consumer sciences/human sciences[a] | ne | ne | ne | ne | 8 | 19 | 22 | 30 |
| Federal | ne | ne | ne | ne | 2 | 7 | 8 | 12 |
| DOD | na | na | na | na | na | na | na | 1 |
| DOE | na | na | na | na | na | na | na | 0 |
| HHS | na | na | na | na | na | na | na | 9 |
| NIH | na | na | na | na | na | na | na | 5 |
| Other HHS | na | na | na | na | na | na | na | 4 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 1 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 1 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | ne | ne | ne | ne | 6 | 12 | 14 | 8 |
| Institutional | na | na | na | na | na | na | na | 6 |
| Domestic | na | na | na | na | na | na | na | 2 |
| Foreign | na | na | na | na | na | na | na | 0 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 10 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Mathematical sciences | 468 | 500 | 579 | 621 | 624 | 723 | 737 | 756 |
| Federal | 286 | 332 | 334 | 303 | 306 | 338 | 364 | 300 |
| DOD | na | na | na | na | na | na | na | 51 |
| DOE | na | na | na | na | na | na | na | 17 |
| HHS | na | na | na | na | na | na | na | 51 |
| NIH | na | na | na | na | na | na | na | 49 |
| Other HHS | na | na | na | na | na | na | na | 2 |
| NASA | na | na | na | na | na | na | na | 2 |
| NSF | na | na | na | na | na | na | na | 162 |
| USDA | na | na | na | na | na | na | na | 1 |
| Other | na | na | na | na | na | na | na | 16 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 182 | 168 | 245 | 318 | 318 | 385 | 373 | 319 |
| Institutional | na | na | na | na | na | na | na | 253 |
| Domestic | na | na | na | na | na | na | na | 51 |
| Foreign | na | na | na | na | na | na | na | 15 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 7 |
| Unknown/not reported | na | na | na | na | na | na | na | 130 |
| Multidisciplinary/interdisciplinary studies[a] | ne | ne | ne | ne | 244 | 348 | 459 | 765 |
| Federal | ne | ne | ne | ne | 116 | 188 | 265 | 332 |
| DOD | na | na | na | na | na | na | na | 38 |
| DOE | na | na | na | na | na | na | na | 46 |
| HHS | na | na | na | na | na | na | na | 130 |
| NIH | na | na | na | na | na | na | na | 127 |
| Other HHS | na | na | na | na | na | na | na | 3 |
| NASA | na | na | na | na | na | na | na | 1 |
| NSF | na | na | na | na | na | na | na | 62 |
| USDA | na | na | na | na | na | na | na | 2 |
| Other | na | na | na | na | na | na | na | 53 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | ne | ne | ne | ne | 128 | 160 | 194 | 181 |
| Institutional | na | na | na | na | na | na | na | 94 |
| Domestic | na | na | na | na | na | na | na | 76 |
| Foreign | na | na | na | na | na | na | na | 11 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 8 |
| Unknown/not reported | na | na | na | na | na | na | na | 244 |
| Neuroscience[a] | ne | ne | ne | ne | 285 | 343 | 645 | 818 |
| Federal | ne | ne | ne | ne | 192 | 220 | 447 | 465 |
| DOD | na | na | na | na | na | na | na | 58 |
| DOE | na | na | na | na | na | na | na | 0 |
| HHS | na | na | na | na | na | na | na | 365 |
| NIH | na | na | na | na | na | na | na | 352 |
| Other HHS | na | na | na | na | na | na | na | 13 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 11 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 31 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | ne | ne | ne | ne | 93 | 123 | 198 | 197 |
| Institutional | na | na | na | na | na | na | na | 59 |
| Domestic | na | na | na | na | na | na | na | 115 |
| Foreign | na | na | na | na | na | na | na | 23 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 1 |
| Unknown/not reported | na | na | na | na | na | na | na | 155 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Physical sciences | 7,059 | 7,011 | 6,703 | 6,760 | 6,719 | 6,885 | 7,447 | 7,703 |
| Federal | 5,402 | 5,197 | 4,953 | 4,741 | 4,719 | 4,671 | 5,177 | 4,348 |
| DOD | na | na | na | na | na | na | na | 408 |
| DOE | na | na | na | na | na | na | na | 853 |
| HHS | na | na | na | na | na | na | na | 1,138 |
| NIH | na | na | na | na | na | na | na | 1,060 |
| Other HHS | na | na | na | na | na | na | na | 78 |
| NASA | na | na | na | na | na | na | na | 282 |
| NSF | na | na | na | na | na | na | na | 1,291 |
| USDA | na | na | na | na | na | na | na | 10 |
| Other | na | na | na | na | na | na | na | 366 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 1,657 | 1,814 | 1,750 | 2,019 | 2,000 | 2,214 | 2,270 | 2,015 |
| Institutional | na | na | na | na | na | na | na | 1,048 |
| Domestic | na | na | na | na | na | na | na | 762 |
| Foreign | na | na | na | na | na | na | na | 205 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 38 |
| Unknown/not reported | na | na | na | na | na | na | na | 1,302 |
| Psychology | 902 | 884 | 873 | 1,106 | 1,088 | 1,077 | 1,219 | 1,077 |
| Federal | 710 | 686 | 683 | 749 | 739 | 737 | 830 | 633 |
| DOD | na | na | na | na | na | na | na | 33 |
| DOE | na | na | na | na | na | na | na | 0 |
| HHS | na | na | na | na | na | na | na | 457 |
| NIH | na | na | na | na | na | na | na | 424 |
| Other HHS | na | na | na | na | na | na | na | 33 |
| NASA | na | na | na | na | na | na | na | 2 |
| NSF | na | na | na | na | na | na | na | 58 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 83 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 192 | 198 | 190 | 357 | 349 | 340 | 389 | 297 |
| Institutional | na | na | na | na | na | na | na | 147 |
| Domestic | na | na | na | na | na | na | na | 98 |
| Foreign | na | na | na | na | na | na | na | 52 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 20 |
| Unknown/not reported | na | na | na | na | na | na | na | 127 |
| Social sciences | 365 | 371 | 394 | 495 | 483 | 508 | 561 | 646 |
| Federal | 168 | 165 | 185 | 173 | 167 | 158 | 155 | 193 |
| DOD | na | na | na | na | na | na | na | 7 |
| DOE | na | na | na | na | na | na | na | 4 |
| HHS | na | na | na | na | na | na | na | 67 |
| NIH | na | na | na | na | na | na | na | 56 |
| Other HHS | na | na | na | na | na | na | na | 11 |
| NASA | na | na | na | na | na | na | na | 10 |
| NSF | na | na | na | na | na | na | na | 48 |
| USDA | na | na | na | na | na | na | na | 13 |
| Other | na | na | na | na | na | na | na | 44 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 197 | 206 | 209 | 322 | 316 | 350 | 406 | 326 |
| Institutional | na | na | na | na | na | na | na | 218 |
| Domestic | na | na | na | na | na | na | na | 97 |
| Foreign | na | na | na | na | na | na | na | 11 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 15 |
| Unknown/not reported | na | na | na | na | na | na | na | 112 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Engineering | 3,949 | 4,166 | 4,642 | 4,908 | 4,942 | 5,462 | 6,416 | 6,956 |
| Federal | 2,895 | 2,810 | 3,034 | 2,875 | 2,889 | 2,970 | 3,726 | 3,601 |
| DOD | na | na | na | na | na | na | na | 837 |
| DOE | na | na | na | na | na | na | na | 657 |
| HHS | na | na | na | na | na | na | na | 777 |
| NIH | na | na | na | na | na | na | na | 728 |
| Other HHS | na | na | na | na | na | na | na | 49 |
| NASA | na | na | na | na | na | na | na | 98 |
| NSF | na | na | na | na | na | na | na | 705 |
| USDA | na | na | na | na | na | na | na | 36 |
| Other | na | na | na | na | na | na | na | 491 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 1,054 | 1,356 | 1,608 | 2,033 | 2,053 | 2,492 | 2,690 | 2,021 |
| Institutional | na | na | na | na | na | na | na | 984 |
| Domestic | na | na | na | na | na | na | na | 761 |
| Foreign | na | na | na | na | na | na | na | 276 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 58 |
| Unknown/not reported | na | na | na | na | na | na | na | 1,276 |
| Aerospace engineering | 141 | 153 | 165 | 178 | 178 | 154 | 168 | 191 |
| Federal | 114 | 110 | 117 | 98 | 98 | 109 | 107 | 111 |
| DOD | na | na | na | na | na | na | na | 47 |
| DOE | na | na | na | na | na | na | na | 13 |
| HHS | na | na | na | na | na | na | na | 3 |
| NIH | na | na | na | na | na | na | na | 3 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 10 |
| NSF | na | na | na | na | na | na | na | 10 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 28 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 27 | 43 | 48 | 80 | 80 | 45 | 61 | 46 |
| Institutional | na | na | na | na | na | na | na | 19 |
| Domestic | na | na | na | na | na | na | na | 19 |
| Foreign | na | na | na | na | na | na | na | 8 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 6 |
| Unknown/not reported | na | na | na | na | na | na | na | 28 |
| Agricultural engineering | 79 | 89 | 116 | 139 | 139 | 135 | 110 | 119 |
| Federal | 55 | 60 | 82 | 72 | 72 | 76 | 48 | 66 |
| DOD | na | na | na | na | na | na | na | 5 |
| DOE | na | na | na | na | na | na | na | 5 |
| HHS | na | na | na | na | na | na | na | 9 |
| NIH | na | na | na | na | na | na | na | 8 |
| Other HHS | na | na | na | na | na | na | na | 1 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 9 |
| USDA | na | na | na | na | na | na | na | 24 |
| Other | na | na | na | na | na | na | na | 14 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 24 | 29 | 34 | 67 | 67 | 59 | 62 | 48 |
| Institutional | na | na | na | na | na | na | na | 33 |
| Domestic | na | na | na | na | na | na | na | 15 |
| Foreign | na | na | na | na | na | na | na | 0 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 4 |
| Unknown/not reported | na | na | na | na | na | na | na | 1 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Architecture[a] | ne | ne | ne | ne | 5 | 11 | 22 | 10 |
| Federal | ne | ne | ne | ne | 0 | 0 | 8 | 2 |
| DOD | na | na | na | na | na | na | na | 0 |
| DOE | na | na | na | na | na | na | na | 0 |
| HHS | na | na | na | na | na | na | na | 0 |
| NIH | na | na | na | na | na | na | na | 0 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 2 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 0 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | ne | ne | ne | ne | 5 | 11 | 14 | 7 |
| Institutional | na | na | na | na | na | na | na | 5 |
| Domestic | na | na | na | na | na | na | na | 0 |
| Foreign | na | na | na | na | na | na | na | 2 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 1 |
| Biomedical engineering | 425 | 477 | 591 | 640 | 640 | 710 | 960 | 1,036 |
| Federal | 353 | 379 | 451 | 438 | 438 | 470 | 679 | 555 |
| DOD | na | na | na | na | na | na | na | 48 |
| DOE | na | na | na | na | na | na | na | 16 |
| HHS | na | na | na | na | na | na | na | 410 |
| NIH | na | na | na | na | na | na | na | 397 |
| Other HHS | na | na | na | na | na | na | na | 13 |
| NASA | na | na | na | na | na | na | na | 2 |
| NSF | na | na | na | na | na | na | na | 49 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 30 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 72 | 98 | 140 | 202 | 202 | 240 | 281 | 191 |
| Institutional | na | na | na | na | na | na | na | 100 |
| Domestic | na | na | na | na | na | na | na | 72 |
| Foreign | na | na | na | na | na | na | na | 19 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 7 |
| Unknown/not reported | na | na | na | na | na | na | na | 283 |
| Chemical engineering | 689 | 702 | 735 | 758 | 790 | 880 | 1,084 | 1,092 |
| Federal | 492 | 450 | 443 | 426 | 447 | 403 | 585 | 497 |
| DOD | ne | ne | ne | ne | ne | ne | ne | 79 |
| DOE | na | na | na | na | na | na | na | 137 |
| HHS | na | na | na | na | na | na | na | 96 |
| NIH | na | na | na | na | na | na | na | 85 |
| Other HHS | na | na | na | na | na | na | na | 11 |
| NASA | na | na | na | na | na | na | na | 8 |
| NSF | na | na | na | na | na | na | na | 115 |
| USDA | na | na | na | na | na | na | na | 3 |
| Other | na | na | na | na | na | na | na | 59 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 197 | 252 | 292 | 332 | 343 | 477 | 499 | 381 |
| Institutional | na | na | na | na | na | na | na | 164 |
| Domestic | na | na | na | na | na | na | na | 156 |
| Foreign | na | na | na | na | na | na | na | 61 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 214 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Civil engineering[a] | 313 | 384 | 458 | 419 | 417 | 465 | 535 | 570 |
| Federal | 203 | 212 | 254 | 214 | 219 | 207 | 260 | 214 |
| DOD | na | na | na | na | na | na | na | 26 |
| DOE | na | na | na | na | na | na | na | 32 |
| HHS | na | na | na | na | na | na | na | 11 |
| NIH | na | na | na | na | na | na | na | 10 |
| Other HHS | na | na | na | na | na | na | na | 1 |
| NASA | na | na | na | na | na | na | na | 14 |
| NSF | na | na | na | na | na | na | na | 50 |
| USDA | na | na | na | na | na | na | na | 4 |
| Other | na | na | na | na | na | na | na | 77 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 110 | 172 | 204 | 205 | 198 | 258 | 275 | 266 |
| Institutional | na | na | na | na | na | na | na | 157 |
| Domestic | na | na | na | na | na | na | na | 73 |
| Foreign | na | na | na | na | na | na | na | 36 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 5 |
| Unknown/not reported | na | na | na | na | na | na | na | 85 |
| Electrical engineering | 654 | 689 | 721 | 885 | 884 | 987 | 1,025 | 1,097 |
| Federal | 482 | 467 | 441 | 522 | 520 | 521 | 586 | 537 |
| DOD | na | na | na | na | na | na | na | 224 |
| DOE | na | na | na | na | na | na | na | 53 |
| HHS | na | na | na | na | na | na | na | 77 |
| NIH | na | na | na | na | na | na | na | 74 |
| Other HHS | na | na | na | na | na | na | na | 3 |
| NASA | na | na | na | na | na | na | na | 8 |
| NSF | na | na | na | na | na | na | na | 119 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 56 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 172 | 222 | 280 | 363 | 364 | 466 | 439 | 298 |
| Institutional | na | na | na | na | na | na | na | 151 |
| Domestic | na | na | na | na | na | na | na | 114 |
| Foreign | na | na | na | na | na | na | na | 33 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 6 |
| Unknown/not reported | na | na | na | na | na | na | na | 256 |
| Engineering science | 180 | 168 | 224 | 192 | 183 | 214 | 226 | 243 |
| Federal | 162 | 134 | 153 | 124 | 119 | 125 | 151 | 162 |
| DOD | na | na | na | na | na | na | na | 42 |
| DOE | na | na | na | na | na | na | na | 35 |
| HHS | na | na | na | na | na | na | na | 21 |
| NIH | na | na | na | na | na | na | na | 21 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 10 |
| NSF | na | na | na | na | na | na | na | 37 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 17 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 18 | 34 | 71 | 68 | 64 | 89 | 75 | 70 |
| Institutional | na | na | na | na | na | na | na | 34 |
| Domestic | na | na | na | na | na | na | na | 20 |
| Foreign | na | na | na | na | na | na | na | 16 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 2 |
| Unknown/not reported | na | na | na | na | na | na | na | 9 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Industrial engineering | 50 | 51 | 51 | 73 | 71 | 115 | 109 | 163 |
| Federal | 27 | 25 | 27 | 28 | 23 | 48 | 56 | 72 |
| DOD | na | na | na | na | na | na | na | 10 |
| DOE | na | na | na | na | na | na | na | 10 |
| HHS | na | na | na | na | na | na | na | 20 |
| NIH | na | na | na | na | na | na | na | 14 |
| Other HHS | na | na | na | na | na | na | na | 6 |
| NASA | na | na | na | na | na | na | na | 2 |
| NSF | na | na | na | na | na | na | na | 17 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 13 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 23 | 26 | 24 | 45 | 48 | 67 | 53 | 39 |
| Institutional | na | na | na | na | na | na | na | 22 |
| Domestic | na | na | na | na | na | na | na | 10 |
| Foreign | na | na | na | na | na | na | na | 7 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 17 |
| Unknown/not reported | na | na | na | na | na | na | na | 35 |
| Mechanical engineering | 514 | 562 | 644 | 725 | 722 | 784 | 948 | 1,009 |
| Federal | 380 | 388 | 442 | 438 | 437 | 443 | 535 | 573 |
| DOD | na | na | na | na | na | na | na | 162 |
| DOE | na | na | na | na | na | na | na | 95 |
| HHS | na | na | na | na | na | na | na | 63 |
| NIH | na | na | na | na | na | na | na | 57 |
| Other HHS | na | na | na | na | na | na | na | 6 |
| NASA | na | na | na | na | na | na | na | 29 |
| NSF | na | na | na | na | na | na | na | 127 |
| USDA | na | na | na | na | na | na | na | 2 |
| Other | na | na | na | na | na | na | na | 95 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 134 | 174 | 202 | 287 | 285 | 341 | 413 | 252 |
| Institutional | na | na | na | na | na | na | na | 124 |
| Domestic | na | na | na | na | na | na | na | 95 |
| Foreign | na | na | na | na | na | na | na | 33 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 2 |
| Unknown/not reported | na | na | na | na | na | na | na | 182 |
| Metallurgical/materials engineering | 567 | 578 | 571 | 555 | 564 | 605 | 758 | 835 |
| Federal | 371 | 353 | 348 | 294 | 294 | 311 | 429 | 467 |
| DOD | na | na | na | na | na | na | na | 131 |
| DOE | na | na | na | na | na | na | na | 112 |
| HHS | na | na | na | na | na | na | na | 41 |
| NIH | na | na | na | na | na | na | na | 39 |
| Other HHS | na | na | na | na | na | na | na | 2 |
| NASA | na | na | na | na | na | na | na | 8 |
| NSF | na | na | na | na | na | na | na | 112 |
| USDA | na | na | na | na | na | na | na | 1 |
| Other | na | na | na | na | na | na | na | 62 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 196 | 225 | 223 | 261 | 270 | 294 | 329 | 268 |
| Institutional | na | na | na | na | na | na | na | 103 |
| Domestic | na | na | na | na | na | na | na | 130 |
| Foreign | na | na | na | na | na | na | na | 35 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 4 |
| Unknown/not reported | na | na | na | na | na | na | na | 96 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Mining engineering | 9 | 8 | 11 | 4 | 5 | 5 | 4 | 6 |
| Federal | 6 | 5 | 6 | 3 | 3 | 2 | 2 | 1 |
| DOD | ne | ne | ne | ne | ne | ne | ne | 0 |
| DOE | na | na | na | na | na | na | na | 1 |
| HHS | na | na | na | na | na | na | na | 0 |
| NIH | na | na | na | na | na | na | na | 0 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 0 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 0 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 3 | 3 | 5 | 1 | 2 | 3 | 2 | 1 |
| Institutional | na | na | na | na | na | na | na | 1 |
| Domestic | na | na | na | na | na | na | na | 0 |
| Foreign | na | na | na | na | na | na | na | 0 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 4 |
| Nuclear engineering | 67 | 41 | 85 | 77 | 73 | 85 | 90 | 107 |
| Federal | 52 | 30 | 72 | 55 | 53 | 60 | 63 | 74 |
| DOD | na | na | na | na | na | na | na | 4 |
| DOE | na | na | na | na | na | na | na | 50 |
| HHS | na | na | na | na | na | na | na | 6 |
| NIH | na | na | na | na | na | na | na | 6 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 1 |
| NSF | na | na | na | na | na | na | na | 4 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 9 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 15 | 11 | 13 | 22 | 20 | 25 | 27 | 20 |
| Institutional | na | na | na | na | na | na | na | 6 |
| Domestic | na | na | na | na | na | na | na | 13 |
| Foreign | na | na | na | na | na | na | na | 1 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 13 |
| Petroleum engineering | 14 | 13 | 18 | 22 | 22 | 28 | 36 | 46 |
| Federal | 8 | 8 | 9 | 11 | 11 | 5 | 6 | 7 |
| DOD | na | na | na | na | na | na | na | 0 |
| DOE | na | na | na | na | na | na | na | 7 |
| HHS | na | na | na | na | na | na | na | 0 |
| NIH | na | na | na | na | na | na | na | 0 |
| Other HHS | na | na | na | na | na | na | na | 0 |
| NASA | na | na | na | na | na | na | na | 0 |
| NSF | na | na | na | na | na | na | na | 0 |
| USDA | na | na | na | na | na | na | na | 0 |
| Other | na | na | na | na | na | na | na | 0 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 6 | 5 | 9 | 11 | 11 | 23 | 30 | 36 |
| Institutional | na | na | na | na | na | na | na | 13 |
| Domestic | na | na | na | na | na | na | na | 18 |
| Foreign | na | na | na | na | na | na | na | 5 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 0 |
| Unknown/not reported | na | na | na | na | na | na | na | 3 |

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

| Field and primary source of support | 2004 | 2005 | 2006 | 2007old[a] | 2007new[a] | 2008 | 2009 | 2010[b] |
|---|---|---|---|---|---|---|---|---|
| Engineering, nec | 247 | 251 | 252 | 241 | 249 | 284 | 341 | 432 |
| Federal | 190 | 189 | 189 | 152 | 155 | 190 | 211 | 263 |
| DOD | na | na | na | na | na | na | na | 59 |
| DOE | na | na | na | na | na | na | na | 91 |
| HHS | na | na | na | na | na | na | na | 20 |
| NIH | na | na | na | na | na | na | na | 14 |
| Other HHS | na | na | na | na | na | na | na | 6 |
| NASA | na | na | na | na | na | na | na | 6 |
| NSF | na | na | na | na | na | na | na | 54 |
| USDA | na | na | na | na | na | na | na | 2 |
| Other | na | na | na | na | na | na | na | 31 |
| Federal, not reported | na | na | na | na | na | na | na | 0 |
| Nonfederal | 57 | 62 | 63 | 89 | 94 | 94 | 130 | 98 |
| Institutional | na | na | na | na | na | na | na | 52 |
| Domestic | na | na | na | na | na | na | na | 26 |
| Foreign | na | na | na | na | na | na | na | 20 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 0 |
| Self-support | na | na | na | na | na | na | na | 5 |
| Unknown/not reported | na | na | na | na | na | na | na | 66 |
| Health[a,c] | 13,175 | 14,099 | 14,456 | 14,818 | 14,617 | 15,961 | 17,001 | 19,364 |
| Federal | 8,427 | 9,284 | 9,180 | 9,177 | 9,038 | 8,951 | 9,537 | 8,437 |
| DOD | na | na | na | na | na | na | na | 340 |
| DOE | na | na | na | na | na | na | na | 20 |
| HHS | na | na | na | na | na | na | na | 7,289 |
| NIH | na | na | na | na | na | na | na | 7,039 |
| Other HHS | na | na | na | na | na | na | na | 250 |
| NASA | na | na | na | na | na | na | na | 21 |
| NSF | na | na | na | na | na | na | na | 48 |
| USDA | na | na | na | na | na | na | na | 37 |
| Other | na | na | na | na | na | na | na | 662 |
| Federal, not reported | na | na | na | na | na | na | na | 20 |
| Nonfederal | 4,748 | 4,815 | 5,276 | 5,641 | 5,579 | 7,010 | 7,464 | 5,822 |
| Institutional | na | na | na | na | na | na | na | 2,852 |
| Domestic | na | na | na | na | na | na | na | 2,616 |
| Foreign | na | na | na | na | na | na | na | 338 |
| Nonfederal, not reported | na | na | na | na | na | na | na | 16 |
| Self-support | na | na | na | na | na | na | na | 133 |
| Unknown/not reported | na | na | na | na | na | na | na | 4,972 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field in prior years.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

[c] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

| Field | Postdoctoral appointees | Sex | | Citizenship | |
|---|---|---|---|---|---|
| | | Male | Female | U.S. citizens and permanent residents | Temporary visa holders |
| All surveyed fields | 63,415 | 39,249 | 24,166 | 29,769 | 33,646 |
| Science and engineering | 44,051 | 28,752 | 15,299 | 20,419 | 23,632 |
| Science | 37,095 | 23,223 | 13,872 | 17,761 | 19,334 |
| Agricultural sciences | 1,195 | 748 | 447 | 611 | 584 |
| Biological sciences | 21,537 | 12,185 | 9,352 | 10,188 | 11,349 |
| Anatomy | 437 | 240 | 197 | 247 | 190 |
| Biochemistry | 2,533 | 1,536 | 997 | 1,164 | 1,369 |
| Biology | 2,555 | 1,487 | 1,068 | 1,317 | 1,238 |
| Biometry/epidemiology | 466 | 232 | 234 | 233 | 233 |
| Biophysics | 240 | 167 | 73 | 105 | 135 |
| Botany | 603 | 393 | 210 | 286 | 317 |
| Cell biology | 2,796 | 1,659 | 1,137 | 1,222 | 1,574 |
| Ecology | 238 | 132 | 106 | 158 | 80 |
| Entomology/parasitology | 233 | 139 | 94 | 130 | 103 |
| Genetics | 1,389 | 778 | 611 | 688 | 701 |
| Microbiology/immunology/virology | 2,374 | 1,284 | 1,090 | 1,134 | 1,240 |
| Nutrition | 219 | 96 | 123 | 112 | 107 |
| Pathology | 1,797 | 946 | 851 | 750 | 1,047 |
| Pharmacology | 1,656 | 899 | 757 | 728 | 928 |
| Physiology | 1,448 | 808 | 640 | 685 | 763 |
| Zoology | 76 | 48 | 28 | 61 | 15 |
| Biological sciences, nec | 2,477 | 1,341 | 1,136 | 1,168 | 1,309 |
| Communication[a] | 60 | 38 | 22 | 37 | 23 |
| Computer sciences | 748 | 622 | 126 | 313 | 435 |
| Earth, atmospheric, and ocean sciences | 1,760 | 1,158 | 602 | 951 | 809 |
| Atmospheric sciences | 184 | 133 | 51 | 76 | 108 |
| Geosciences | 601 | 416 | 185 | 279 | 322 |
| Oceanography | 332 | 172 | 160 | 192 | 140 |
| Earth/atmospheric/ocean sciences, nec | 643 | 437 | 206 | 404 | 239 |
| Family and consumer sciences/human sciences[a] | 30 | 7 | 23 | 22 | 8 |
| Mathematical sciences | 756 | 587 | 169 | 391 | 365 |
| Mathematics/applied mathematics | 680 | 525 | 155 | 358 | 322 |
| Statistics | 76 | 62 | 14 | 33 | 43 |
| Multidisciplinary/interdisciplinary studies[a] | 765 | 506 | 259 | 450 | 315 |
| Neuroscience[a] | 818 | 444 | 374 | 390 | 428 |
| Physical sciences | 7,703 | 6,092 | 1,611 | 3,198 | 4,505 |
| Astronomy | 532 | 399 | 133 | 275 | 257 |
| Chemistry | 4,241 | 3,255 | 986 | 1,682 | 2,559 |
| Physics | 2,628 | 2,184 | 444 | 1,107 | 1,521 |
| Physical sciences, nec | 302 | 254 | 48 | 134 | 168 |
| Psychology | 1,077 | 492 | 585 | 765 | 312 |
| Clinical psychology | 123 | 28 | 95 | 114 | 9 |
| Psychology, general | 634 | 312 | 322 | 434 | 200 |
| Psychology, nec | 320 | 152 | 168 | 217 | 103 |
| Social sciences | 646 | 344 | 302 | 445 | 201 |
| Agricultural economics | 44 | 33 | 11 | 24 | 20 |
| Anthropology (cultural/social) | 83 | 39 | 44 | 65 | 18 |
| Economics (except agricultural) | 47 | 35 | 12 | 24 | 23 |
| Geography | 62 | 39 | 23 | 46 | 16 |
| History and philosophy of science | 13 | 6 | 7 | 7 | 6 |

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

| Field | Postdoctoral appointees | Sex | | Citizenship | |
|---|---|---|---|---|---|
| | | Male | Female | U.S. citizens and permanent residents | Temporary visa holders |
| Linguistics | 27 | 17 | 10 | 14 | 13 |
| Political science | 85 | 44 | 41 | 66 | 19 |
| Sociology | 81 | 33 | 48 | 65 | 16 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 98 | 106 | 134 | 70 |
| Engineering | 6,956 | 5,529 | 1,427 | 2,658 | 4,298 |
| Aerospace engineering | 191 | 166 | 25 | 69 | 122 |
| Agricultural engineering | 119 | 81 | 38 | 37 | 82 |
| Architecture[a] | 10 | 5 | 5 | 5 | 5 |
| Biomedical engineering | 1,036 | 738 | 298 | 499 | 537 |
| Chemical engineering | 1,092 | 858 | 234 | 454 | 638 |
| Civil engineering[a] | 570 | 426 | 144 | 244 | 326 |
| Electrical engineering | 1,097 | 939 | 158 | 324 | 773 |
| Engineering science | 243 | 198 | 45 | 94 | 149 |
| Industrial engineering | 163 | 126 | 37 | 78 | 85 |
| Mechanical engineering | 1,009 | 858 | 151 | 362 | 647 |
| Metallurgical/materials engineering | 835 | 669 | 166 | 285 | 550 |
| Mining engineering | 6 | 6 | 0 | 1 | 5 |
| Nuclear engineering | 107 | 94 | 13 | 55 | 52 |
| Petroleum engineering | 46 | 32 | 14 | 12 | 34 |
| Engineering, nec | 432 | 333 | 99 | 139 | 293 |
| Health | 19,364 | 10,497 | 8,867 | 9,350 | 10,014 |
| Clinical medicine | 16,610 | 8,991 | 7,619 | 7,958 | 8,652 |
| Anesthesiology | 477 | 283 | 194 | 222 | 255 |
| Cardiology | 700 | 429 | 271 | 292 | 408 |
| Endocrinology | 457 | 229 | 228 | 185 | 272 |
| Gastroenterology | 320 | 205 | 115 | 147 | 173 |
| Hematology | 352 | 208 | 144 | 161 | 191 |
| Neurology[a] | 1,328 | 692 | 636 | 595 | 733 |
| Obstetrics/gynecology | 333 | 152 | 181 | 160 | 173 |
| Oncology/cancer research | 1,903 | 1,039 | 864 | 812 | 1,091 |
| Ophthalmology | 523 | 295 | 228 | 207 | 316 |
| Otorhinolaryngology | 140 | 84 | 56 | 67 | 73 |
| Pediatrics | 1,209 | 538 | 671 | 680 | 529 |
| Preventive medicine/community health | 580 | 235 | 345 | 389 | 191 |
| Psychiatry | 1,066 | 393 | 673 | 758 | 308 |
| Pulmonary disease | 287 | 166 | 121 | 177 | 110 |
| Radiology | 1,034 | 682 | 352 | 438 | 596 |
| Surgery | 1,257 | 825 | 432 | 555 | 702 |
| Clinical medicine, nec | 4,644 | 2,536 | 2,108 | 2,113 | 2,531 |
| Other health | 2,754 | 1,506 | 1,248 | 1,392 | 1,362 |
| Dental sciences | 358 | 184 | 174 | 153 | 205 |
| Nursing | 55 | 6 | 49 | 51 | 4 |
| Pharmaceutical sciences | 1,102 | 694 | 408 | 514 | 588 |

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

| Field | Postdoctoral appointees | Sex | | Citizenship | |
|---|---|---|---|---|---|
| | | Male | Female | U.S. citizens and permanent residents | Temporary visa holders |
| Speech pathology/audiology | 54 | 23 | 31 | 38 | 16 |
| Veterinary sciences | 464 | 228 | 236 | 288 | 176 |
| Other health, nec | 721 | 371 | 350 | 348 | 373 |

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTE: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

| Field | Total | Federal | | | | | | | | | | Nonfederal | | | | | Self-support | Unknown/ not reported |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | DOD | DOE | HHS-NIH | HHS-Other | NASA | NSF | USDA | Other | Not reported | Total | Institutional | Domestic | Foreign | Not reported | | |
| All surveyed fields | 63,415 | 32,804 | 2,374 | 1,913 | 19,309 | 687 | 614 | 3,907 | 629 | 2,894 | 477 | 17,862 | 8,840 | 7,302 | 1,463 | 257 | 396 | 12,353 |
| Science and engineering | 44,051 | 24,367 | 2,034 | 1,893 | 12,270 | 437 | 593 | 3,859 | 592 | 2,232 | 457 | 12,040 | 5,988 | 4,686 | 1,125 | 241 | 263 | 7,381 |
| Science | 37,095 | 20,766 | 1,197 | 1,236 | 11,542 | 388 | 495 | 3,154 | 556 | 1,741 | 457 | 10,019 | 5,004 | 3,925 | 849 | 241 | 205 | 6,105 |
| Agricultural sciences | 1,195 | 631 | 15 | 34 | 49 | 8 | 1 | 108 | 278 | 138 | 0 | 514 | 301 | 189 | 24 | 0 | 17 | 33 |
| Biological sciences | 21,537 | 12,578 | 415 | 203 | 9,336 | 226 | 46 | 900 | 236 | 759 | 457 | 5,386 | 2,445 | 2,273 | 427 | 241 | 83 | 3,490 |
| Anatomy | 437 | 228 | 2 | 0 | 202 | 10 | 0 | 6 | 0 | 8 | 0 | 59 | 32 | 17 | 10 | 0 | 0 | 150 |
| Biochemistry | 2,533 | 1,507 | 34 | 24 | 1,112 | 46 | 6 | 75 | 7 | 72 | 131 | 627 | 282 | 235 | 38 | 72 | 6 | 393 |
| Biology | 2,555 | 1,420 | 38 | 34 | 914 | 20 | 7 | 314 | 17 | 76 | 0 | 799 | 377 | 313 | 109 | 0 | 4 | 332 |
| Biometry/epidemiology | 466 | 312 | 8 | 0 | 260 | 23 | 0 | 8 | 0 | 13 | 0 | 103 | 46 | 43 | 14 | 0 | 3 | 48 |
| Biophysics | 240 | 160 | 3 | 3 | 126 | 0 | 0 | 6 | 0 | 22 | 0 | 63 | 24 | 39 | 0 | 0 | 0 | 17 |
| Botany | 603 | 308 | 2 | 32 | 28 | 4 | 6 | 141 | 80 | 15 | 0 | 160 | 112 | 46 | 2 | 0 | 7 | 128 |
| Cell biology | 2,796 | 1,474 | 37 | 6 | 1,168 | 9 | 7 | 62 | 6 | 78 | 101 | 808 | 324 | 376 | 54 | 54 | 10 | 504 |
| Ecology | 238 | 107 | 1 | 1 | 16 | 0 | 1 | 58 | 5 | 25 | 0 | 80 | 62 | 18 | 0 | 0 | 3 | 48 |
| Entomology/parasitology | 233 | 136 | 5 | 3 | 29 | 7 | 0 | 18 | 58 | 16 | 0 | 71 | 45 | 20 | 6 | 0 | 4 | 22 |
| Genetics | 1,389 | 751 | 14 | 6 | 554 | 4 | 0 | 33 | 9 | 69 | 62 | 397 | 176 | 147 | 36 | 38 | 7 | 234 |
| Microbiology/immunology/virology | 2,374 | 1,557 | 55 | 29 | 1,270 | 36 | 0 | 43 | 8 | 43 | 73 | 516 | 236 | 229 | 36 | 15 | 6 | 295 |
| Nutrition | 219 | 127 | 4 | 1 | 83 | 1 | 0 | 1 | 27 | 10 | 0 | 70 | 47 | 22 | 1 | 0 | 3 | 19 |
| Pathology | 1,797 | 968 | 37 | 0 | 821 | 6 | 9 | 2 | 1 | 54 | 38 | 412 | 194 | 143 | 45 | 30 | 8 | 409 |
| Pharmacology | 1,656 | 1,053 | 64 | 2 | 880 | 20 | 1 | 8 | 0 | 78 | 0 | 330 | 145 | 155 | 30 | 0 | 4 | 269 |
| Physiology | 1,448 | 884 | 33 | 0 | 776 | 23 | 3 | 10 | 4 | 35 | 0 | 332 | 109 | 196 | 27 | 0 | 2 | 230 |
| Zoology | 76 | 57 | 4 | 2 | 20 | 0 | 2 | 15 | 6 | 8 | 0 | 17 | 9 | 7 | 1 | 0 | 2 | 0 |
| Biological sciences, nec | 2,477 | 1,529 | 74 | 60 | 1,077 | 17 | 4 | 100 | 8 | 137 | 52 | 542 | 225 | 267 | 18 | 32 | 14 | 392 |
| Communication[a] | 60 | 20 | 6 | 0 | 11 | 1 | 0 | 2 | 0 | 0 | 0 | 31 | 17 | 9 | 5 | 0 | 0 | 9 |
| Computer sciences | 748 | 448 | 106 | 24 | 54 | 6 | 10 | 195 | 2 | 51 | 0 | 204 | 90 | 90 | 24 | 0 | 7 | 89 |
| Earth, atmospheric, and ocean sciences | 1,760 | 806 | 59 | 55 | 19 | 3 | 141 | 316 | 14 | 199 | 0 | 541 | 326 | 163 | 52 | 0 | 9 | 404 |
| Atmospheric sciences | 184 | 127 | 5 | 12 | 2 | 0 | 17 | 43 | 1 | 47 | 0 | 56 | 20 | 27 | 9 | 0 | 0 | 1 |
| Geosciences | 601 | 328 | 9 | 35 | 0 | 0 | 73 | 151 | 5 | 55 | 0 | 203 | 123 | 60 | 20 | 0 | 6 | 64 |
| Oceanography | 332 | 201 | 25 | 1 | 12 | 2 | 9 | 90 | 3 | 59 | 0 | 125 | 45 | 62 | 18 | 0 | 1 | 5 |
| Earth/atmospheric/ ocean sciences, nec | 643 | 150 | 20 | 7 | 5 | 1 | 42 | 32 | 5 | 38 | 0 | 157 | 138 | 14 | 5 | 0 | 2 | 334 |
| Family and consumer sciences/ human sciences[a] | 30 | 12 | 1 | 0 | 5 | 4 | 0 | 1 | 0 | 1 | 0 | 8 | 6 | 2 | 0 | 0 | 0 | 10 |
| Mathematical sciences | 756 | 300 | 51 | 17 | 49 | 2 | 2 | 162 | 1 | 16 | 0 | 319 | 253 | 51 | 15 | 0 | 7 | 130 |
| Mathematics/applied mathematics | 680 | 259 | 46 | 17 | 23 | 2 | 2 | 154 | 1 | 14 | 0 | 307 | 245 | 50 | 12 | 0 | 7 | 107 |
| Statistics | 76 | 41 | 5 | 0 | 26 | 0 | 0 | 8 | 0 | 2 | 0 | 12 | 8 | 1 | 3 | 0 | 0 | 23 |

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

| Field | Total | Federal | | | | | | | | | | Nonfederal | | | | | Self-support | Unknown/ not reported |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | DOD | DOE | HHS-NIH | HHS-Other | NASA | NSF | USDA | Other | Not reported | Total | Institutional | Domestic | Foreign | Not reported | | |
| Multidisciplinary/interdisciplinary studies[a] | 765 | 332 | 38 | 46 | 127 | 3 | 1 | 62 | 2 | 53 | 0 | 181 | 94 | 76 | 11 | 0 | 8 | 244 |
| Neuroscience[a] | 818 | 465 | 58 | 0 | 352 | 13 | 0 | 11 | 0 | 31 | 0 | 197 | 59 | 115 | 23 | 0 | 1 | 155 |
| Physical sciences | 7,703 | 4,348 | 408 | 853 | 1,060 | 78 | 282 | 1,291 | 10 | 366 | 0 | 2,015 | 1,048 | 762 | 205 | 0 | 38 | 1,302 |
| Astronomy | 532 | 319 | 8 | 15 | 0 | 0 | 123 | 114 | 0 | 59 | 0 | 113 | 50 | 55 | 8 | 0 | 6 | 94 |
| Chemistry | 4,241 | 2,280 | 202 | 286 | 950 | 75 | 19 | 598 | 6 | 144 | 0 | 1,277 | 616 | 521 | 140 | 0 | 20 | 664 |
| Physics | 2,628 | 1,631 | 182 | 535 | 102 | 3 | 131 | 516 | 4 | 158 | 0 | 592 | 369 | 168 | 55 | 0 | 12 | 393 |
| Physical sciences, nec | 302 | 118 | 16 | 17 | 8 | 0 | 9 | 63 | 0 | 5 | 0 | 33 | 13 | 18 | 2 | 0 | 0 | 151 |
| Psychology | 1,077 | 633 | 33 | 0 | 424 | 33 | 2 | 58 | 0 | 83 | 0 | 297 | 147 | 98 | 52 | 0 | 20 | 127 |
| Clinical psychology | 123 | 69 | 0 | 0 | 48 | 2 | 0 | 0 | 0 | 19 | 0 | 20 | 15 | 5 | 0 | 0 | 13 | 21 |
| Psychology, general | 634 | 360 | 15 | 0 | 244 | 18 | 0 | 42 | 0 | 41 | 0 | 181 | 79 | 66 | 36 | 0 | 5 | 88 |
| Psychology, nec | 320 | 204 | 18 | 0 | 132 | 13 | 2 | 16 | 0 | 23 | 0 | 96 | 53 | 27 | 16 | 0 | 2 | 18 |
| Social sciences | 646 | 193 | 7 | 4 | 56 | 11 | 10 | 48 | 13 | 44 | 0 | 326 | 218 | 97 | 11 | 0 | 15 | 112 |
| Agricultural economics | 44 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 10 | 7 | 0 | 18 | 12 | 6 | 0 | 0 | 1 | 7 |
| Anthropology (cultural/social) | 83 | 15 | 0 | 0 | 1 | 0 | 0 | 8 | 0 | 6 | 0 | 44 | 33 | 9 | 2 | 0 | 7 | 17 |
| Economics (except agricultural) | 47 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 17 | 11 | 0 | 0 | 1 | 17 |
| Geography | 62 | 33 | 1 | 0 | 1 | 0 | 8 | 13 | 3 | 7 | 0 | 17 | 10 | 6 | 1 | 0 | 0 | 12 |
| History and philosophy of science | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 4 | 1 | 0 | 0 | 0 | 6 |
| Linguistics | 27 | 10 | 0 | 0 | 3 | 1 | 0 | 6 | 0 | 0 | 0 | 9 | 8 | 0 | 1 | 0 | 0 | 8 |
| Political science | 85 | 19 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 8 | 0 | 56 | 34 | 21 | 1 | 0 | 0 | 10 |
| Sociology | 81 | 37 | 0 | 1 | 23 | 1 | 1 | 10 | 0 | 1 | 0 | 34 | 27 | 5 | 2 | 0 | 0 | 10 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 58 | 1 | 2 | 24 | 9 | 1 | 8 | 0 | 13 | 0 | 115 | 73 | 38 | 4 | 0 | 6 | 25 |
| Engineering | 6,956 | 3,601 | 837 | 657 | 728 | 49 | 98 | 705 | 36 | 491 | 0 | 2,021 | 984 | 761 | 276 | 0 | 58 | 1,276 |
| Aerospace engineering | 191 | 111 | 47 | 13 | 3 | 0 | 10 | 10 | 0 | 28 | 0 | 46 | 19 | 19 | 8 | 0 | 6 | 28 |
| Agricultural engineering | 119 | 66 | 5 | 5 | 8 | 1 | 0 | 9 | 24 | 14 | 0 | 48 | 33 | 15 | 0 | 0 | 4 | 1 |
| Architecture[a] | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 5 | 0 | 2 | 0 | 0 | 1 |
| Biomedical engineering | 1,036 | 555 | 48 | 16 | 397 | 13 | 2 | 49 | 0 | 30 | 0 | 191 | 100 | 72 | 19 | 0 | 7 | 283 |
| Chemical engineering | 1,092 | 497 | 79 | 137 | 85 | 11 | 8 | 115 | 3 | 59 | 0 | 381 | 164 | 156 | 61 | 0 | 0 | 214 |
| Civil engineering[a] | 570 | 214 | 26 | 32 | 10 | 1 | 14 | 50 | 4 | 77 | 0 | 266 | 157 | 73 | 36 | 0 | 5 | 85 |
| Electrical engineering | 1,097 | 537 | 224 | 53 | 74 | 3 | 8 | 119 | 0 | 56 | 0 | 298 | 151 | 114 | 33 | 0 | 6 | 256 |
| Engineering science | 243 | 162 | 42 | 35 | 21 | 0 | 10 | 37 | 0 | 17 | 0 | 70 | 34 | 20 | 16 | 0 | 2 | 9 |
| Industrial engineering | 163 | 72 | 10 | 10 | 14 | 6 | 2 | 17 | 0 | 13 | 0 | 39 | 22 | 10 | 7 | 0 | 17 | 35 |
| Mechanical engineering | 1,009 | 573 | 162 | 95 | 57 | 6 | 29 | 127 | 2 | 95 | 0 | 252 | 124 | 95 | 33 | 0 | 2 | 182 |
| Metallurgical/materials engineering | 835 | 467 | 131 | 112 | 39 | 2 | 8 | 112 | 1 | 62 | 0 | 268 | 103 | 130 | 35 | 0 | 4 | 96 |
| Mining engineering | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| Nuclear engineering | 107 | 74 | 4 | 50 | 6 | 0 | 1 | 4 | 0 | 9 | 0 | 20 | 6 | 13 | 1 | 0 | 0 | 13 |
| Petroleum engineering | 46 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 13 | 18 | 5 | 0 | 0 | 3 |
| Engineering, nec | 432 | 263 | 59 | 91 | 14 | 6 | 6 | 54 | 2 | 31 | 0 | 98 | 52 | 26 | 20 | 0 | 5 | 66 |
| Health | 19,364 | 8,437 | 340 | 20 | 7,039 | 250 | 21 | 48 | 37 | 662 | 20 | 5,822 | 2,852 | 2,616 | 338 | 16 | 133 | 4,972 |

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

| Field | Total | Federal | | | | | | | | | | Nonfederal | | | | | Self-support | Unknown/ not reported |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | DOD | DOE | HHS-NIH | HHS-Other | NASA | NSF | USDA | Other | Not reported | Total | Institutional | Domestic | Foreign | Not reported | | |
| Clinical medicine | 16,610 | 7,104 | 303 | 20 | 5,972 | 195 | 14 | 24 | 12 | 561 | 3 | 5,148 | 2,493 | 2,352 | 303 | 0 | 113 | 4,245 |
| Anesthesiology | 477 | 182 | 3 | 0 | 167 | 1 | 0 | 0 | 0 | 11 | 0 | 120 | 49 | 66 | 5 | 0 | 1 | 174 |
| Cardiology | 700 | 292 | 1 | 0 | 270 | 17 | 0 | 0 | 1 | 3 | 0 | 258 | 161 | 54 | 43 | 0 | 0 | 150 |
| Endocrinology | 457 | 214 | 4 | 0 | 205 | 3 | 0 | 0 | 0 | 2 | 0 | 174 | 42 | 97 | 35 | 0 | 1 | 68 |
| Gastroenterology | 320 | 161 | 1 | 0 | 134 | 0 | 0 | 0 | 0 | 26 | 0 | 74 | 57 | 9 | 8 | 0 | 0 | 85 |
| Hematology | 352 | 156 | 9 | 0 | 143 | 1 | 0 | 0 | 0 | 3 | 0 | 142 | 73 | 62 | 7 | 0 | 0 | 54 |
| Neurology[a] | 1,328 | 505 | 9 | 0 | 454 | 5 | 0 | 6 | 0 | 31 | 0 | 417 | 182 | 208 | 27 | 0 | 2 | 404 |
| Obstetrics/gynecology | 333 | 110 | 3 | 0 | 97 | 0 | 0 | 0 | 1 | 9 | 0 | 124 | 67 | 51 | 6 | 0 | 0 | 99 |
| Oncology/cancer research | 1,903 | 1,014 | 79 | 2 | 849 | 8 | 6 | 2 | 0 | 68 | 0 | 738 | 304 | 398 | 36 | 0 | 33 | 118 |
| Ophthalmology | 523 | 181 | 6 | 0 | 160 | 0 | 0 | 1 | 0 | 14 | 0 | 140 | 61 | 73 | 6 | 0 | 13 | 189 |
| Otorhinolaryngology | 140 | 83 | 2 | 0 | 79 | 0 | 0 | 0 | 0 | 2 | 0 | 34 | 20 | 7 | 7 | 0 | 2 | 21 |
| Pediatrics | 1,209 | 577 | 7 | 0 | 475 | 30 | 2 | 1 | 8 | 54 | 0 | 480 | 249 | 215 | 16 | 0 | 3 | 149 |
| Preventive medicine/community health | 580 | 307 | 5 | 2 | 240 | 31 | 1 | 5 | 2 | 18 | 3 | 152 | 82 | 68 | 2 | 0 | 8 | 113 |
| Psychiatry | 1,066 | 549 | 5 | 0 | 410 | 5 | 1 | 0 | 0 | 128 | 0 | 221 | 119 | 88 | 14 | 0 | 7 | 289 |
| Pulmonary disease | 287 | 150 | 0 | 0 | 140 | 1 | 0 | 1 | 0 | 8 | 0 | 80 | 41 | 33 | 6 | 0 | 0 | 57 |
| Radiology | 1,034 | 455 | 17 | 15 | 385 | 20 | 2 | 1 | 0 | 15 | 0 | 310 | 116 | 182 | 12 | 0 | 3 | 266 |
| Surgery | 1,257 | 478 | 58 | 0 | 390 | 3 | 0 | 1 | 0 | 26 | 0 | 469 | 207 | 235 | 27 | 0 | 11 | 299 |
| Clinical medicine, nec | 4,644 | 1,690 | 94 | 1 | 1,374 | 70 | 2 | 6 | 0 | 143 | 0 | 1,215 | 663 | 506 | 46 | 0 | 29 | 1,710 |
| Other health | 2,754 | 1,333 | 37 | 0 | 1,067 | 55 | 7 | 24 | 25 | 101 | 17 | 674 | 359 | 264 | 35 | 16 | 20 | 727 |
| Dental sciences | 358 | 242 | 9 | 0 | 186 | 7 | 0 | 0 | 0 | 23 | 17 | 75 | 35 | 14 | 12 | 14 | 0 | 41 |
| Nursing | 55 | 29 | 0 | 0 | 21 | 3 | 0 | 0 | 0 | 5 | 0 | 9 | 7 | 2 | 0 | 0 | 4 | 13 |
| Pharmaceutical sciences | 1,102 | 469 | 14 | 0 | 394 | 15 | 0 | 13 | 1 | 32 | 0 | 240 | 133 | 95 | 12 | 0 | 6 | 387 |
| Speech pathology/audiology | 54 | 37 | 0 | 0 | 29 | 0 | 0 | 3 | 0 | 5 | 0 | 12 | 6 | 4 | 2 | 0 | 0 | 5 |
| Veterinary sciences | 464 | 243 | 3 | 0 | 179 | 11 | 6 | 5 | 24 | 15 | 0 | 188 | 124 | 61 | 3 | 0 | 4 | 29 |
| Other health, nec | 721 | 313 | 11 | 0 | 258 | 19 | 1 | 3 | 0 | 21 | 0 | 150 | 54 | 88 | 6 | 2 | 6 | 252 |

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

| Field | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| All surveyed fields | 63,415 | 5,803 | 35,644 | 4,133 | 9,036 | 8,799 |
| Science and engineering | 44,051 | 3,646 | 27,054 | 2,062 | 5,696 | 5,593 |
| Science | 37,095 | 3,280 | 22,416 | 2,002 | 4,946 | 4,451 |
| Agricultural sciences | 1,195 | 54 | 905 | 16 | 170 | 50 |
| Biological sciences | 21,537 | 1,810 | 12,835 | 1,670 | 2,955 | 2,267 |
| Anatomy | 437 | 41 | 209 | 41 | 48 | 98 |
| Biochemistry | 2,533 | 149 | 1,615 | 150 | 395 | 224 |
| Biology | 2,555 | 330 | 1,527 | 105 | 332 | 261 |
| Biometry/epidemiology | 466 | 45 | 211 | 103 | 85 | 22 |
| Biophysics | 240 | 23 | 159 | 7 | 45 | 6 |
| Botany | 603 | 26 | 367 | 2 | 81 | 127 |
| Cell biology | 2,796 | 273 | 1,491 | 121 | 472 | 439 |
| Ecology | 238 | 16 | 138 | 2 | 46 | 36 |
| Entomology/parasitology | 233 | 3 | 170 | 2 | 42 | 16 |
| Genetics | 1,389 | 82 | 799 | 106 | 219 | 183 |
| Microbiology/immunology/virology | 2,374 | 201 | 1,532 | 190 | 286 | 165 |
| Nutrition | 219 | 3 | 149 | 15 | 35 | 17 |
| Pathology | 1,797 | 127 | 966 | 139 | 299 | 266 |
| Pharmacology | 1,656 | 149 | 1,003 | 128 | 179 | 197 |
| Physiology | 1,448 | 157 | 813 | 165 | 174 | 139 |
| Zoology | 76 | 4 | 64 | 2 | 6 | 0 |
| Biological sciences, nec | 2,477 | 181 | 1,622 | 392 | 211 | 71 |
| Communication[a] | 60 | 20 | 30 | 0 | 10 | 0 |
| Computer sciences | 748 | 62 | 541 | 10 | 62 | 73 |
| Earth, atmospheric, and ocean sciences | 1,760 | 165 | 980 | 15 | 233 | 367 |
| Atmospheric sciences | 184 | 20 | 149 | 0 | 14 | 1 |
| Geosciences | 601 | 76 | 404 | 2 | 76 | 43 |
| Oceanography | 332 | 53 | 242 | 13 | 22 | 2 |
| Earth/atmospheric/ocean sciences, nec | 643 | 16 | 185 | 0 | 121 | 321 |
| Family and consumer sciences/human sciences[a] | 30 | 4 | 13 | 1 | 5 | 7 |
| Mathematical sciences | 756 | 87 | 317 | 50 | 217 | 85 |
| Mathematics/applied mathematics | 680 | 81 | 277 | 50 | 209 | 63 |
| Statistics | 76 | 6 | 40 | 0 | 8 | 22 |
| Multidisciplinary/interdisciplinary studies[a] | 765 | 61 | 403 | 12 | 56 | 233 |
| Neuroscience[a] | 818 | 177 | 503 | 51 | 58 | 29 |
| Physical sciences | 7,703 | 564 | 5,073 | 58 | 821 | 1,187 |
| Astronomy | 532 | 65 | 322 | 1 | 54 | 90 |
| Chemistry | 4,241 | 348 | 2,753 | 43 | 499 | 598 |
| Physics | 2,628 | 146 | 1,852 | 14 | 255 | 361 |
| Physical sciences, nec | 302 | 5 | 146 | 0 | 13 | 138 |
| Psychology | 1,077 | 165 | 581 | 76 | 161 | 94 |
| Clinical psychology | 123 | 24 | 41 | 11 | 38 | 9 |
| Psychology, general | 634 | 86 | 336 | 47 | 86 | 79 |
| Psychology, nec | 320 | 55 | 204 | 18 | 37 | 6 |
| Social sciences | 646 | 111 | 235 | 43 | 198 | 59 |
| Agricultural economics | 44 | 2 | 26 | 0 | 9 | 7 |
| Anthropology (cultural/social) | 83 | 21 | 22 | 1 | 31 | 8 |
| Economics (except agricultural) | 47 | 5 | 17 | 0 | 15 | 10 |
| Geography | 62 | 3 | 32 | 4 | 11 | 12 |
| History and philosophy of science | 13 | 3 | 2 | 0 | 7 | 1 |
| Linguistics | 27 | 4 | 10 | 2 | 11 | 0 |
| Political science | 85 | 24 | 28 | 1 | 28 | 4 |

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

| Field | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| Sociology | 81 | 11 | 26 | 18 | 23 | 3 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 38 | 72 | 17 | 63 | 14 |
| Engineering | 6,956 | 366 | 4,638 | 60 | 750 | 1,142 |
| Aerospace engineering | 191 | 4 | 140 | 0 | 22 | 25 |
| Agricultural engineering | 119 | 0 | 96 | 1 | 22 | 0 |
| Architecture[a] | 10 | 2 | 5 | 1 | 2 | 0 |
| Biomedical engineering | 1,036 | 87 | 595 | 29 | 77 | 248 |
| Chemical engineering | 1,092 | 54 | 713 | 3 | 140 | 182 |
| Civil engineering[a] | 570 | 29 | 370 | 2 | 102 | 67 |
| Electrical engineering | 1,097 | 58 | 690 | 10 | 107 | 232 |
| Engineering science | 243 | 15 | 212 | 0 | 7 | 9 |
| Industrial engineering | 163 | 7 | 97 | 1 | 28 | 30 |
| Mechanical engineering | 1,009 | 59 | 652 | 3 | 142 | 153 |
| Metallurgical/materials engineering | 835 | 23 | 617 | 6 | 74 | 115 |
| Mining engineering | 6 | 0 | 2 | 0 | 0 | 4 |
| Nuclear engineering | 107 | 2 | 90 | 0 | 5 | 10 |
| Petroleum engineering | 46 | 0 | 42 | 0 | 1 | 3 |
| Engineering, nec | 432 | 26 | 317 | 4 | 21 | 64 |
| Health | 19,364 | 2,157 | 8,590 | 2,071 | 3,340 | 3,206 |
| Clinical medicine | 16,610 | 1,894 | 7,233 | 1,726 | 3,019 | 2,738 |
| Anesthesiology | 477 | 27 | 190 | 23 | 81 | 156 |
| Cardiology | 700 | 147 | 262 | 67 | 102 | 122 |
| Endocrinology | 457 | 63 | 198 | 50 | 88 | 58 |
| Gastroenterology | 320 | 47 | 120 | 34 | 37 | 82 |
| Hematology | 352 | 63 | 169 | 40 | 39 | 41 |
| Neurology[a] | 1,328 | 94 | 604 | 141 | 268 | 221 |
| Obstetrics/gynecology | 333 | 68 | 113 | 34 | 69 | 49 |
| Oncology/cancer research | 1,903 | 193 | 1,063 | 151 | 432 | 64 |
| Ophthalmology | 523 | 27 | 239 | 33 | 69 | 155 |
| Otorhinolaryngology | 140 | 37 | 69 | 18 | 8 | 8 |
| Pediatrics | 1,209 | 214 | 574 | 125 | 234 | 62 |
| Preventive medicine/community health | 580 | 64 | 251 | 87 | 74 | 104 |
| Psychiatry | 1,066 | 49 | 416 | 184 | 208 | 209 |
| Pulmonary disease | 287 | 51 | 98 | 48 | 40 | 50 |
| Radiology | 1,034 | 118 | 495 | 118 | 152 | 151 |
| Surgery | 1,257 | 83 | 572 | 122 | 318 | 162 |
| Clinical medicine, nec | 4,644 | 549 | 1,800 | 451 | 800 | 1,044 |
| Other health | 2,754 | 263 | 1,357 | 345 | 321 | 468 |
| Dental sciences | 358 | 22 | 194 | 59 | 59 | 24 |
| Nursing | 55 | 9 | 10 | 17 | 14 | 5 |
| Pharmaceutical sciences | 1,102 | 106 | 473 | 172 | 153 | 198 |

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

| Field | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| Speech pathology/audiology | 54 | 0 | 35 | 6 | 9 | 4 |
| Veterinary sciences | 464 | 31 | 337 | 18 | 53 | 25 |
| Other health, nec | 721 | 95 | 308 | 73 | 33 | 212 |

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

| Field and primary source of support | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| All surveyed fields | 63,415 | 5,803 | 35,644 | 4,133 | 9,036 | 8,799 |
| Federal | 32,804 | 2,130 | 26,940 | 2,784 | 738 | 212 |
| DOD | 2,374 | 108 | 2,192 | 22 | 34 | 18 |
| DOE | 1,913 | 22 | 1,831 | 6 | 13 | 41 |
| HHS | 19,996 | 1,392 | 15,816 | 2,431 | 279 | 78 |
| NIH | 19,309 | 1,339 | 15,271 | 2,356 | 275 | 68 |
| Other HHS | 687 | 53 | 545 | 75 | 4 | 10 |
| NASA | 614 | 48 | 532 | 13 | 20 | 1 |
| NSF | 3,907 | 199 | 3,444 | 51 | 167 | 46 |
| USDA | 629 | 6 | 582 | 3 | 28 | 10 |
| Other | 2,894 | 353 | 2,136 | 190 | 197 | 18 |
| Federal, not reported | 477 | 2 | 407 | 68 | 0 | 0 |
| Nonfederal | 17,862 | 2,969 | 7,894 | 434 | 6,366 | 199 |
| Institutional | 8,840 | 1,164 | 3,275 | 282 | 4,001 | 118 |
| Domestic | 7,302 | 1,289 | 4,091 | 114 | 1,727 | 81 |
| Foreign | 1,463 | 516 | 528 | 38 | 381 | 0 |
| Nonfederal, not reported | 257 | 0 | 0 | 0 | 257 | 0 |
| Self-support | 396 | na | na | na | 396 | 0 |
| Unknown/not reported | 12,353 | 704 | 810 | 915 | 1,536 | 8,388 |
| Science and engineering | 44,051 | 3,646 | 27,054 | 2,062 | 5,696 | 5,593 |
| Federal | 24,367 | 1,380 | 20,934 | 1,311 | 533 | 209 |
| DOD | 2,034 | 70 | 1,909 | 8 | 29 | 18 |
| DOE | 1,893 | 22 | 1,816 | 1 | 13 | 41 |
| HHS | 12,707 | 807 | 10,583 | 1,092 | 150 | 75 |
| NIH | 12,270 | 788 | 10,195 | 1,074 | 148 | 65 |
| Other HHS | 437 | 19 | 388 | 18 | 2 | 10 |
| NASA | 593 | 47 | 513 | 12 | 20 | 1 |
| NSF | 3,859 | 197 | 3,402 | 50 | 164 | 46 |
| USDA | 592 | 6 | 546 | 3 | 27 | 10 |
| Other | 2,232 | 229 | 1,775 | 80 | 130 | 18 |
| Federal, not reported | 457 | 2 | 390 | 65 | 0 | 0 |
| Nonfederal | 12,040 | 1,791 | 5,731 | 262 | 4,073 | 183 |
| Institutional | 5,988 | 559 | 2,461 | 178 | 2,687 | 103 |
| Domestic | 4,686 | 821 | 2,791 | 56 | 938 | 80 |
| Foreign | 1,125 | 411 | 479 | 28 | 207 | 0 |
| Nonfederal, not reported | 241 | 0 | 0 | 0 | 241 | 0 |
| Self-support | 263 | na | na | na | 263 | 0 |
| Unknown/not reported | 7,381 | 475 | 389 | 489 | 827 | 5,201 |
| Science | 37,095 | 3,280 | 22,416 | 2,002 | 4,946 | 4,451 |
| Federal | 20,766 | 1,259 | 17,668 | 1,268 | 394 | 177 |
| DOD | 1,197 | 50 | 1,103 | 7 | 21 | 16 |
| DOE | 1,236 | 18 | 1,178 | 1 | 5 | 34 |
| HHS | 11,930 | 766 | 9,905 | 1,059 | 131 | 69 |
| NIH | 11,542 | 747 | 9,565 | 1,042 | 129 | 59 |
| Other HHS | 388 | 19 | 340 | 17 | 2 | 10 |
| NASA | 495 | 31 | 435 | 12 | 16 | 1 |
| NSF | 3,154 | 178 | 2,790 | 45 | 109 | 32 |
| USDA | 556 | 6 | 513 | 2 | 25 | 10 |
| Other | 1,741 | 208 | 1,354 | 77 | 87 | 15 |
| Federal, not reported | 457 | 2 | 390 | 65 | 0 | 0 |
| Nonfederal | 10,019 | 1,608 | 4,415 | 245 | 3,610 | 141 |
| Institutional | 5,004 | 487 | 1,902 | 166 | 2,360 | 89 |
| Domestic | 3,925 | 766 | 2,223 | 54 | 830 | 52 |
| Foreign | 849 | 355 | 290 | 25 | 179 | 0 |
| Nonfederal, not reported | 241 | 0 | 0 | 0 | 241 | 0 |

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

| Field and primary source of support | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| Self-support | 205 | na | na | na | 205 | 0 |
| Unknown/not reported | 6,105 | 413 | 333 | 489 | 737 | 4,133 |
| Engineering | 6,956 | 366 | 4,638 | 60 | 750 | 1,142 |
| Federal | 3,601 | 121 | 3,266 | 43 | 139 | 32 |
| DOD | 837 | 20 | 806 | 1 | 8 | 2 |
| DOE | 657 | 4 | 638 | 0 | 8 | 7 |
| HHS | 777 | 41 | 678 | 33 | 19 | 6 |
| NIH | 728 | 41 | 630 | 32 | 19 | 6 |
| Other HHS | 49 | 0 | 48 | 1 | 0 | 0 |
| NASA | 98 | 16 | 78 | 0 | 4 | 0 |
| NSF | 705 | 19 | 612 | 5 | 55 | 14 |
| USDA | 36 | 0 | 33 | 1 | 2 | 0 |
| Other | 491 | 21 | 421 | 3 | 43 | 3 |
| Federal, not reported | 0 | 0 | 0 | 0 | 0 | 0 |
| Nonfederal | 2,021 | 183 | 1,316 | 17 | 463 | 42 |
| Institutional | 984 | 72 | 559 | 12 | 327 | 14 |
| Domestic | 761 | 55 | 568 | 2 | 108 | 28 |
| Foreign | 276 | 56 | 189 | 3 | 28 | 0 |
| Nonfederal, not reported | 0 | 0 | 0 | 0 | 0 | 0 |
| Self-support | 58 | na | na | na | 58 | 0 |
| Unknown/not reported | 1,276 | 62 | 56 | 0 | 90 | 1,068 |
| Health | 19,364 | 2,157 | 8,590 | 2,071 | 3,340 | 3,206 |
| Federal | 8,437 | 750 | 6,006 | 1,473 | 205 | 3 |
| DOD | 340 | 38 | 283 | 14 | 5 | 0 |
| DOE | 20 | 0 | 15 | 5 | 0 | 0 |
| HHS | 7,289 | 585 | 5,233 | 1,339 | 129 | 3 |
| NIH | 7,039 | 551 | 5,076 | 1,282 | 127 | 3 |
| Other HHS | 250 | 34 | 157 | 57 | 2 | 0 |
| NASA | 21 | 1 | 19 | 1 | 0 | 0 |
| NSF | 48 | 2 | 42 | 1 | 3 | 0 |
| USDA | 37 | 0 | 36 | 0 | 1 | 0 |
| Other | 662 | 124 | 361 | 110 | 67 | 0 |
| Federal, not reported | 20 | 0 | 17 | 3 | 0 | 0 |
| Nonfederal | 5,822 | 1,178 | 2,163 | 172 | 2,293 | 16 |
| Institutional | 2,852 | 605 | 814 | 104 | 1,314 | 15 |
| Domestic | 2,616 | 468 | 1,300 | 58 | 789 | 1 |
| Foreign | 338 | 105 | 49 | 10 | 174 | 0 |
| Nonfederal, not reported | 16 | 0 | 0 | 0 | 16 | 0 |
| Self-support | 133 | na | na | na | 133 | 0 |
| Unknown/not reported | 4,972 | 229 | 421 | 426 | 709 | 3,187 |
| Clinical medicine[a] | 16,610 | 1,894 | 7,233 | 1,726 | 3,019 | 2,738 |
| Federal | 7,104 | 660 | 4,961 | 1,304 | 179 | 0 |
| DOD | 303 | 35 | 251 | 14 | 3 | 0 |
| DOE | 20 | 0 | 15 | 5 | 0 | 0 |
| HHS | 6,167 | 524 | 4,346 | 1,189 | 108 | 0 |
| NIH | 5,972 | 492 | 4,235 | 1,139 | 106 | 0 |
| Other HHS | 195 | 32 | 111 | 50 | 2 | 0 |
| NASA | 14 | 1 | 12 | 1 | 0 | 0 |
| NSF | 24 | 0 | 22 | 1 | 1 | 0 |
| USDA | 12 | 0 | 12 | 0 | 0 | 0 |
| Other | 561 | 100 | 303 | 91 | 67 | 0 |
| Federal, not reported | 3 | 0 | 0 | 3 | 0 | 0 |

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

| Field and primary source of support | Total | Fellowships | Research grants | Traineeships | Other types of support | Not reported |
|---|---|---|---|---|---|---|
| Nonfederal | 5,148 | 1,071 | 1,855 | 137 | 2,070 | 15 |
| Institutional | 2,493 | 569 | 652 | 88 | 1,169 | 15 |
| Domestic | 2,352 | 411 | 1,161 | 44 | 736 | 0 |
| Foreign | 303 | 91 | 42 | 5 | 165 | 0 |
| Nonfederal, not reported | 0 | 0 | 0 | 0 | 0 | 0 |
| Self-support | 113 | na | na | na | 113 | 0 |
| Unknown/not reported | 4,245 | 163 | 417 | 285 | 657 | 2,723 |
| Other health | 2,754 | 263 | 1,357 | 345 | 321 | 468 |
| Federal | 1,333 | 90 | 1,045 | 169 | 26 | 3 |
| DOD | 37 | 3 | 32 | 0 | 2 | 0 |
| DOE | 0 | 0 | 0 | 0 | 0 | 0 |
| HHS | 1,122 | 61 | 887 | 150 | 21 | 3 |
| NIH | 1,067 | 59 | 841 | 143 | 21 | 3 |
| Other HHS | 55 | 2 | 46 | 7 | 0 | 0 |
| NASA | 7 | 0 | 7 | 0 | 0 | 0 |
| NSF | 24 | 2 | 20 | 0 | 2 | 0 |
| USDA | 25 | 0 | 24 | 0 | 1 | 0 |
| Other | 101 | 24 | 58 | 19 | 0 | 0 |
| Federal, not reported | 17 | 0 | 17 | 0 | 0 | 0 |
| Nonfederal | 674 | 107 | 308 | 35 | 223 | 1 |
| Institutional | 359 | 36 | 162 | 16 | 145 | 0 |
| Domestic | 264 | 57 | 139 | 14 | 53 | 1 |
| Foreign | 35 | 14 | 7 | 5 | 9 | 0 |
| Nonfederal, not reported | 16 | 0 | 0 | 0 | 16 | 0 |
| Self-support | 20 | na | na | na | 20 | 0 |
| Unknown/not reported | 727 | 66 | 4 | 141 | 52 | 464 |

na = not applicable; data were not collected at this level of detail.

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.

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 due to lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All surveyed fields | 63,415 | 1,160 | 93 | 5,174 | 898 | 92 | 15,689 | 140 | 6,523 | 33,646 |
| Science and engineering | 44,051 | 763 | 59 | 3,371 | 529 | 51 | 11,084 | 79 | 4,483 | 23,632 |
| Science | 37,095 | 700 | 55 | 2,784 | 465 | 44 | 9,906 | 68 | 3,739 | 19,334 |
| Agricultural sciences | 1,195 | 24 | 4 | 116 | 22 | 0 | 375 | 0 | 70 | 584 |
| Biological sciences | 21,537 | 444 | 25 | 1,850 | 298 | 29 | 5,426 | 42 | 2,074 | 11,349 |
| Anatomy | 437 | 7 | 0 | 50 | 4 | 0 | 107 | 4 | 75 | 190 |
| Biochemistry | 2,533 | 47 | 3 | 254 | 27 | 6 | 577 | 2 | 248 | 1,369 |
| Biology | 2,555 | 60 | 3 | 187 | 27 | 1 | 795 | 7 | 237 | 1,238 |
| Biometry/epidemiology | 466 | 6 | 0 | 40 | 25 | 2 | 139 | 2 | 19 | 233 |
| Biophysics | 240 | 1 | 0 | 14 | 2 | 0 | 75 | 0 | 13 | 135 |
| Botany | 603 | 25 | 2 | 57 | 1 | 0 | 111 | 0 | 90 | 317 |
| Cell biology | 2,796 | 44 | 3 | 170 | 21 | 3 | 573 | 8 | 400 | 1,574 |
| Ecology | 238 | 12 | 1 | 7 | 1 | 0 | 93 | 1 | 43 | 80 |
| Entomology/parasitology | 233 | 7 | 0 | 22 | 2 | 0 | 85 | 0 | 14 | 103 |
| Genetics | 1,389 | 22 | 0 | 130 | 15 | 6 | 338 | 1 | 176 | 701 |
| Microbiology/immunology/virology | 2,374 | 51 | 5 | 176 | 39 | 3 | 637 | 8 | 215 | 1,240 |
| Nutrition | 219 | 5 | 0 | 23 | 8 | 0 | 68 | 1 | 7 | 107 |
| Pathology | 1,797 | 25 | 0 | 157 | 27 | 2 | 354 | 5 | 180 | 1,047 |
| Pharmacology | 1,656 | 32 | 4 | 140 | 25 | 4 | 379 | 1 | 143 | 928 |
| Physiology | 1,448 | 38 | 3 | 131 | 29 | 0 | 419 | 2 | 63 | 763 |
| Zoology | 76 | 1 | 0 | 5 | 0 | 0 | 50 | 0 | 5 | 15 |
| Biological sciences, nec | 2,477 | 61 | 1 | 287 | 45 | 2 | 626 | 0 | 146 | 1,309 |
| Communication[b] | 60 | 2 | 0 | 1 | 2 | 0 | 25 | 0 | 7 | 23 |
| Computer sciences | 748 | 8 | 2 | 50 | 5 | 0 | 171 | 0 | 77 | 435 |
| Earth, atmospheric, and ocean sciences | 1,760 | 28 | 6 | 75 | 9 | 0 | 635 | 4 | 194 | 809 |
| Atmospheric sciences | 184 | 2 | 0 | 12 | 0 | 0 | 48 | 1 | 13 | 108 |
| Geosciences | 601 | 6 | 0 | 21 | 4 | 0 | 217 | 0 | 31 | 322 |
| Oceanography | 332 | 8 | 6 | 15 | 2 | 0 | 137 | 2 | 22 | 140 |
| Earth/atmospheric/ocean sciences, nec | 643 | 12 | 0 | 27 | 3 | 0 | 233 | 1 | 128 | 239 |
| Family and consumer sciences/human sciences[b] | 30 | 0 | 0 | 3 | 2 | 0 | 17 | 0 | 0 | 8 |
| Mathematical sciences | 756 | 9 | 1 | 30 | 3 | 0 | 261 | 3 | 84 | 365 |
| Mathematics/applied mathematics | 680 | 9 | 1 | 28 | 3 | 0 | 244 | 3 | 70 | 322 |
| Statistics | 76 | 0 | 0 | 2 | 0 | 0 | 17 | 0 | 14 | 43 |
| Multidisciplinary/interdisciplinary studies[b] | 765 | 17 | 0 | 45 | 6 | 0 | 279 | 2 | 101 | 315 |
| Neuroscience[b] | 818 | 12 | 3 | 61 | 12 | 1 | 218 | 3 | 80 | 428 |

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Physical sciences | 7,703 | 92 | 11 | 468 | 53 | 12 | 1,723 | 7 | 832 | 4,505 |
| Astronomy | 532 | 3 | 0 | 19 | 0 | 10 | 174 | 0 | 69 | 257 |
| Chemistry | 4,241 | 59 | 8 | 297 | 42 | 2 | 808 | 2 | 464 | 2,559 |
| Physics | 2,628 | 29 | 3 | 143 | 6 | 0 | 649 | 5 | 272 | 1,521 |
| Physical sciences, nec | 302 | 1 | 0 | 9 | 5 | 0 | 92 | 0 | 27 | 168 |
| Psychology | 1,077 | 37 | 1 | 46 | 24 | 2 | 501 | 4 | 150 | 312 |
| Clinical psychology | 123 | 13 | 0 | 5 | 8 | 0 | 67 | 0 | 21 | 9 |
| Psychology, general | 634 | 19 | 0 | 23 | 13 | 1 | 275 | 2 | 101 | 200 |
| Psychology, nec | 320 | 5 | 1 | 18 | 3 | 1 | 159 | 2 | 28 | 103 |
| Social sciences | 646 | 27 | 2 | 39 | 29 | 0 | 275 | 3 | 70 | 201 |
| Agricultural economics | 44 | 1 | 0 | 4 | 2 | 0 | 10 | 0 | 7 | 20 |
| Anthropology (cultural/social) | 83 | 2 | 0 | 5 | 0 | 0 | 43 | 2 | 13 | 18 |
| Economics (except agricultural) | 47 | 0 | 0 | 2 | 0 | 0 | 13 | 0 | 9 | 23 |
| Geography | 62 | 1 | 1 | 5 | 0 | 0 | 28 | 0 | 11 | 16 |
| History and philosophy of science | 13 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| Linguistics | 27 | 1 | 0 | 1 | 2 | 0 | 10 | 0 | 0 | 13 |
| Political science | 85 | 3 | 1 | 5 | 6 | 0 | 42 | 0 | 9 | 19 |
| Sociology | 81 | 2 | 0 | 2 | 3 | 0 | 51 | 0 | 7 | 16 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 16 | 0 | 15 | 16 | 0 | 72 | 1 | 14 | 70 |
| Engineering | 6,956 | 63 | 4 | 587 | 64 | 7 | 1,178 | 11 | 744 | 4,298 |
| Aerospace engineering | 191 | 2 | 0 | 15 | 1 | 0 | 30 | 0 | 21 | 122 |
| Agricultural engineering | 119 | 4 | 0 | 17 | 3 | 0 | 13 | 0 | 0 | 82 |
| Architecture[b] | 10 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 5 |
| Biomedical engineering | 1,036 | 12 | 1 | 107 | 24 | 1 | 181 | 1 | 172 | 537 |
| Chemical engineering | 1,092 | 12 | 0 | 91 | 6 | 2 | 186 | 0 | 157 | 638 |
| Civil engineering[b] | 570 | 8 | 2 | 45 | 3 | 0 | 114 | 2 | 70 | 326 |
| Electrical engineering | 1,097 | 4 | 1 | 90 | 8 | 2 | 147 | 1 | 71 | 773 |
| Engineering science | 243 | 3 | 0 | 20 | 2 | 0 | 65 | 1 | 3 | 149 |
| Industrial engineering | 163 | 1 | 0 | 9 | 4 | 0 | 43 | 1 | 20 | 85 |
| Mechanical engineering | 1,009 | 7 | 0 | 92 | 4 | 0 | 157 | 0 | 102 | 647 |
| Metallurgical/materials engineering | 835 | 5 | 0 | 66 | 3 | 2 | 137 | 4 | 68 | 550 |
| Mining engineering | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| Nuclear engineering | 107 | 0 | 0 | 6 | 1 | 0 | 30 | 1 | 17 | 52 |
| Petroleum engineering | 46 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 34 |
| Engineering, nec | 432 | 4 | 0 | 25 | 4 | 0 | 68 | 0 | 38 | 293 |

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Health | 19,364 | 397 | 34 | 1,803 | 369 | 41 | 4,605 | 61 | 2,040 | 10,014 |
| Clinical medicine | 16,610 | 317 | 25 | 1,540 | 319 | 38 | 3,841 | 58 | 1,820 | 8,652 |
| Anesthesiology | 477 | 6 | 2 | 31 | 3 | 0 | 77 | 0 | 103 | 255 |
| Cardiology | 700 | 12 | 0 | 50 | 12 | 1 | 160 | 4 | 53 | 408 |
| Endocrinology | 457 | 13 | 0 | 26 | 11 | 0 | 94 | 0 | 41 | 272 |
| Gastroenterology | 320 | 3 | 0 | 35 | 8 | 0 | 78 | 0 | 23 | 173 |
| Hematology | 352 | 5 | 0 | 27 | 3 | 0 | 63 | 1 | 62 | 191 |
| Neurology[b] | 1,328 | 23 | 3 | 113 | 15 | 2 | 306 | 4 | 129 | 733 |
| Obstetrics/gynecology | 333 | 2 | 0 | 27 | 4 | 1 | 85 | 1 | 40 | 173 |
| Oncology/cancer research | 1,903 | 27 | 1 | 241 | 31 | 2 | 378 | 4 | 128 | 1,091 |
| Ophthalmology | 523 | 15 | 0 | 38 | 2 | 0 | 70 | 2 | 80 | 316 |
| Otorhinolaryngology | 140 | 4 | 0 | 14 | 2 | 0 | 37 | 1 | 9 | 73 |
| Pediatrics | 1,209 | 30 | 4 | 132 | 36 | 1 | 364 | 7 | 106 | 529 |
| Preventive medicine/community health | 580 | 21 | 5 | 47 | 32 | 5 | 174 | 5 | 100 | 191 |
| Psychiatry | 1,066 | 37 | 2 | 52 | 34 | 2 | 375 | 5 | 251 | 308 |
| Pulmonary disease | 287 | 3 | 0 | 26 | 6 | 0 | 104 | 2 | 36 | 110 |
| Radiology | 1,034 | 11 | 1 | 113 | 11 | 1 | 231 | 3 | 67 | 596 |
| Surgery | 1,257 | 24 | 1 | 108 | 23 | 0 | 302 | 5 | 92 | 702 |
| Clinical medicine, nec | 4,644 | 81 | 6 | 460 | 86 | 23 | 943 | 14 | 500 | 2,531 |
| Other health | 2,754 | 80 | 9 | 263 | 50 | 3 | 764 | 3 | 220 | 1,362 |
| Dental sciences | 358 | 6 | 1 | 46 | 3 | 1 | 59 | 0 | 37 | 205 |
| Nursing | 55 | 3 | 0 | 4 | 8 | 0 | 34 | 1 | 1 | 4 |
| Pharmaceutical sciences | 1,102 | 22 | 5 | 120 | 12 | 0 | 293 | 1 | 61 | 588 |
| Speech pathology/audiology | 54 | 2 | 0 | 3 | 2 | 0 | 19 | 0 | 12 | 16 |
| Veterinary sciences | 464 | 20 | 1 | 58 | 4 | 2 | 187 | 1 | 15 | 176 |
| Other health, nec | 721 | 27 | 2 | 32 | 21 | 0 | 172 | 0 | 94 | 373 |

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All surveyed fields | 24,166 | 595 | 46 | 2,203 | 523 | 52 | 6,822 | 67 | 2,587 | 11,271 |
| Science and engineering | 15,299 | 372 | 29 | 1,372 | 273 | 27 | 4,443 | 39 | 1,391 | 7,353 |
| Science | 13,872 | 353 | 28 | 1,236 | 247 | 24 | 4,152 | 32 | 1,253 | 6,547 |
| Agricultural sciences | 447 | 10 | 2 | 43 | 9 | 0 | 167 | 0 | 33 | 183 |
| Biological sciences | 9,352 | 237 | 16 | 910 | 164 | 21 | 2,576 | 20 | 850 | 4,558 |
| Anatomy | 197 | 3 | 0 | 23 | 3 | 0 | 58 | 1 | 26 | 83 |
| Biochemistry | 997 | 23 | 2 | 110 | 14 | 4 | 263 | 1 | 91 | 489 |
| Biology | 1,068 | 31 | 1 | 89 | 13 | 0 | 355 | 4 | 86 | 489 |
| Biometry/epidemiology | 234 | 3 | 0 | 26 | 18 | 0 | 87 | 1 | 12 | 87 |
| Biophysics | 73 | 0 | 0 | 5 | 1 | 0 | 22 | 0 | 6 | 39 |
| Botany | 210 | 16 | 0 | 22 | 0 | 0 | 51 | 0 | 14 | 107 |
| Cell biology | 1,137 | 23 | 2 | 89 | 13 | 3 | 266 | 5 | 100 | 636 |
| Ecology | 106 | 9 | 1 | 3 | 1 | 0 | 37 | 0 | 24 | 31 |
| Entomology/parasitology | 94 | 1 | 0 | 9 | 0 | 0 | 37 | 0 | 5 | 42 |
| Genetics | 611 | 6 | 0 | 66 | 8 | 5 | 166 | 0 | 85 | 275 |
| Microbiology/immunology/virology | 1,090 | 28 | 4 | 85 | 21 | 2 | 307 | 3 | 112 | 528 |
| Nutrition | 123 | 3 | 0 | 14 | 8 | 0 | 45 | 1 | 3 | 49 |
| Pathology | 851 | 12 | 0 | 82 | 14 | 2 | 183 | 3 | 98 | 457 |
| Pharmacology | 757 | 21 | 3 | 68 | 13 | 3 | 180 | 0 | 83 | 386 |
| Physiology | 640 | 17 | 2 | 67 | 17 | 0 | 188 | 1 | 44 | 304 |
| Zoology | 28 | 0 | 0 | 2 | 0 | 0 | 20 | 0 | 3 | 3 |
| Biological sciences, nec | 1,136 | 41 | 1 | 150 | 20 | 2 | 311 | 0 | 58 | 553 |
| Communication[b] | 22 | 1 | 0 | 0 | 1 | 0 | 10 | 0 | 2 | 8 |
| Computer sciences | 126 | 2 | 0 | 12 | 2 | 0 | 28 | 0 | 21 | 61 |
| Earth, atmospheric, and ocean sciences | 602 | 16 | 3 | 29 | 6 | 0 | 233 | 1 | 63 | 251 |
| Atmospheric sciences | 51 | 1 | 0 | 3 | 0 | 0 | 16 | 0 | 2 | 29 |
| Geosciences | 185 | 2 | 0 | 9 | 2 | 0 | 61 | 0 | 15 | 96 |
| Oceanography | 160 | 7 | 3 | 6 | 2 | 0 | 77 | 1 | 8 | 56 |
| Earth/atmospheric/ocean sciences, nec | 206 | 6 | 0 | 11 | 2 | 0 | 79 | 0 | 38 | 70 |
| Family and consumer sciences/human sciences[b] | 23 | 0 | 0 | 3 | 1 | 0 | 12 | 0 | 0 | 7 |
| Mathematical sciences | 169 | 1 | 0 | 12 | 0 | 0 | 63 | 0 | 14 | 79 |
| Mathematics/applied mathematics | 155 | 1 | 0 | 11 | 0 | 0 | 60 | 0 | 12 | 71 |
| Statistics | 14 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 2 | 8 |
| Multidisciplinary/interdisciplinary studies[b] | 259 | 7 | 0 | 14 | 3 | 0 | 117 | 1 | 22 | 95 |

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Neuroscience[b] | 374 | 6 | 2 | 31 | 7 | 0 | 104 | 1 | 42 | 181 |
| Physical sciences | 1,611 | 34 | 4 | 126 | 21 | 3 | 395 | 4 | 104 | 920 |
| Astronomy | 133 | 2 | 0 | 6 | 0 | 3 | 46 | 0 | 12 | 64 |
| Chemistry | 986 | 24 | 3 | 86 | 19 | 0 | 230 | 1 | 63 | 560 |
| Physics | 444 | 7 | 1 | 31 | 2 | 0 | 106 | 3 | 26 | 268 |
| Physical sciences, nec | 48 | 1 | 0 | 3 | 0 | 0 | 13 | 0 | 3 | 28 |
| Psychology | 585 | 24 | 1 | 31 | 17 | 0 | 297 | 4 | 77 | 134 |
| Clinical psychology | 95 | 12 | 0 | 5 | 6 | 0 | 49 | 0 | 18 | 5 |
| Psychology, general | 322 | 11 | 0 | 15 | 8 | 0 | 150 | 2 | 43 | 93 |
| Psychology, nec | 168 | 1 | 1 | 11 | 3 | 0 | 98 | 2 | 16 | 36 |
| Social sciences | 302 | 15 | 0 | 25 | 16 | 0 | 150 | 1 | 25 | 70 |
| Agricultural economics | 11 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 6 |
| Anthropology (cultural/social) | 44 | 2 | 0 | 1 | 0 | 0 | 27 | 1 | 5 | 8 |
| Economics (except agricultural) | 12 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 7 |
| Geography | 23 | 0 | 0 | 2 | 0 | 0 | 14 | 0 | 3 | 4 |
| History and philosophy of science | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 4 |
| Linguistics | 10 | 1 | 0 | 1 | 1 | 0 | 4 | 0 | 0 | 3 |
| Political science | 41 | 2 | 0 | 4 | 4 | 0 | 20 | 0 | 6 | 5 |
| Sociology | 48 | 2 | 0 | 2 | 3 | 0 | 30 | 0 | 2 | 9 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 106 | 8 | 0 | 12 | 8 | 0 | 47 | 0 | 7 | 24 |
| Engineering | 1,427 | 19 | 1 | 136 | 26 | 3 | 291 | 7 | 138 | 806 |
| Aerospace engineering | 25 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 5 | 14 |
| Agricultural engineering | 38 | 1 | 0 | 6 | 2 | 0 | 7 | 0 | 0 | 22 |
| Architecture[b] | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 |
| Biomedical engineering | 298 | 5 | 0 | 34 | 14 | 1 | 63 | 1 | 39 | 141 |
| Chemical engineering | 234 | 4 | 0 | 25 | 2 | 0 | 51 | 0 | 14 | 138 |
| Civil engineering[b] | 144 | 1 | 1 | 8 | 0 | 0 | 39 | 2 | 18 | 75 |
| Electrical engineering | 158 | 2 | 0 | 12 | 3 | 1 | 18 | 1 | 12 | 109 |
| Engineering science | 45 | 1 | 0 | 6 | 0 | 0 | 12 | 0 | 1 | 25 |
| Industrial engineering | 37 | 0 | 0 | 0 | 1 | 0 | 12 | 0 | 3 | 21 |
| Mechanical engineering | 151 | 2 | 0 | 14 | 1 | 0 | 29 | 0 | 21 | 84 |
| Metallurgical/materials engineering | 166 | 1 | 0 | 18 | 1 | 1 | 35 | 3 | 10 | 97 |
| Mining engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nuclear engineering | 13 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 9 |
| Petroleum engineering | 14 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 11 |
| Engineering, nec | 99 | 1 | 0 | 10 | 1 | 0 | 17 | 0 | 13 | 57 |

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Health | 8,867 | 223 | 17 | 831 | 250 | 25 | 2,379 | 28 | 1,196 | 3,918 |
| Clinical medicine | 7,619 | 165 | 11 | 714 | 217 | 23 | 1,979 | 26 | 1,078 | 3,406 |
| Anesthesiology | 194 | 4 | 1 | 13 | 0 | 0 | 36 | 0 | 42 | 98 |
| Cardiology | 271 | 5 | 0 | 19 | 6 | 1 | 65 | 2 | 21 | 152 |
| Endocrinology | 228 | 7 | 0 | 13 | 10 | 0 | 55 | 0 | 25 | 118 |
| Gastroenterology | 115 | 1 | 0 | 8 | 7 | 0 | 29 | 0 | 10 | 60 |
| Hematology | 144 | 4 | 0 | 12 | 3 | 0 | 26 | 1 | 26 | 72 |
| Neurology[b] | 636 | 10 | 1 | 59 | 8 | 0 | 146 | 1 | 70 | 341 |
| Obstetrics/gynecology | 181 | 2 | 0 | 18 | 3 | 0 | 61 | 1 | 19 | 77 |
| Oncology/cancer research | 864 | 13 | 1 | 101 | 20 | 1 | 191 | 1 | 69 | 467 |
| Ophthalmology | 228 | 7 | 0 | 18 | 1 | 0 | 26 | 2 | 18 | 156 |
| Otorhinolaryngology | 56 | 0 | 0 | 5 | 1 | 0 | 20 | 0 | 3 | 27 |
| Pediatrics | 671 | 16 | 3 | 87 | 28 | 1 | 221 | 4 | 73 | 238 |
| Preventive medicine/community health | 345 | 16 | 3 | 28 | 24 | 2 | 113 | 2 | 70 | 87 |
| Psychiatry | 673 | 26 | 1 | 31 | 28 | 1 | 229 | 3 | 198 | 156 |
| Pulmonary disease | 121 | 2 | 0 | 9 | 3 | 0 | 41 | 0 | 25 | 41 |
| Radiology | 352 | 3 | 0 | 43 | 4 | 0 | 88 | 1 | 22 | 191 |
| Surgery | 432 | 7 | 0 | 39 | 11 | 0 | 105 | 2 | 33 | 235 |
| Clinical medicine, nec | 2,108 | 42 | 1 | 211 | 60 | 17 | 527 | 6 | 354 | 890 |
| Other health | 1,248 | 58 | 6 | 117 | 33 | 2 | 400 | 2 | 118 | 512 |
| Dental sciences | 174 | 5 | 0 | 24 | 1 | 1 | 34 | 0 | 25 | 84 |
| Nursing | 49 | 3 | 0 | 4 | 8 | 0 | 29 | 1 | 1 | 3 |
| Pharmaceutical sciences | 408 | 11 | 3 | 48 | 5 | 0 | 128 | 1 | 20 | 192 |

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Speech pathology/audiology | 31 | 2 | 0 | 3 | 2 | 0 | 10 | 0 | 8 | 6 |
| Veterinary sciences | 236 | 15 | 1 | 20 | 3 | 1 | 108 | 0 | 13 | 75 |
| Other health, nec | 350 | 22 | 2 | 18 | 14 | 0 | 91 | 0 | 51 | 152 |

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 due to lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All institutions[b] | 37,095 | 700 | 55 | 2,784 | 465 | 44 | 9,906 | 68 | 3,739 | 19,334 |
| New England | 5,609 | 65 | 10 | 293 | 28 | 2 | 1,327 | 22 | 772 | 3,090 |
| Connecticut | 956 | 5 | 1 | 65 | 9 | 0 | 253 | 4 | 73 | 546 |
| Trinity C., Hartford | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| U. CT | 117 | 0 | 0 | 6 | 0 | 0 | 23 | 0 | 21 | 67 |
| Wesleyan U. | 14 | 1 | 0 | 3 | 0 | 0 | 7 | 0 | 1 | 2 |
| Yale U. | 821 | 4 | 1 | 56 | 9 | 0 | 220 | 4 | 51 | 476 |
| Maine | 19 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 1 | 6 |
| U. ME | 19 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 1 | 6 |
| Massachusetts | 4,152 | 47 | 8 | 213 | 16 | 2 | 859 | 18 | 682 | 2,307 |
| Boston C. | 62 | 0 | 5 | 5 | 0 | 0 | 13 | 0 | 0 | 39 |
| Boston U. | 372 | 2 | 1 | 16 | 0 | 0 | 83 | 1 | 95 | 174 |
| Brandeis U. | 111 | 0 | 0 | 4 | 0 | 0 | 13 | 0 | 32 | 62 |
| Clark U. | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 7 |
| Harvard U. | 2,116 | 23 | 0 | 97 | 8 | 2 | 379 | 6 | 424 | 1,177 |
| MA Institute of Technology | 698 | 11 | 1 | 34 | 1 | 0 | 154 | 5 | 104 | 388 |
| Mt. Holyoke C. | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| Northeastern U. | 57 | 1 | 0 | 8 | 0 | 0 | 14 | 0 | 5 | 29 |
| Tufts U. | 159 | 3 | 0 | 10 | 1 | 0 | 58 | 5 | 2 | 80 |
| U. MA, Amherst | 160 | 2 | 1 | 6 | 2 | 0 | 41 | 0 | 13 | 95 |
| U. MA, Dartmouth | 11 | 1 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 3 |
| U. MA, Lowell | 19 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 16 |
| U. MA, Medical School | 303 | 3 | 0 | 26 | 4 | 0 | 67 | 1 | 4 | 198 |
| Williams C. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Woods Hole Oceanographic Institution | 60 | 1 | 0 | 2 | 0 | 0 | 26 | 0 | 0 | 31 |
| Worcester Polytechnic Institute | 11 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 7 |
| New Hampshire | 174 | 4 | 1 | 4 | 0 | 0 | 67 | 0 | 2 | 96 |
| Dartmouth C. | 138 | 3 | 1 | 2 | 0 | 0 | 53 | 0 | 1 | 78 |
| U. NH | 36 | 1 | 0 | 2 | 0 | 0 | 14 | 0 | 1 | 18 |
| Rhode Island | 243 | 4 | 0 | 9 | 2 | 0 | 112 | 0 | 14 | 102 |
| Brown U. | 211 | 3 | 0 | 8 | 2 | 0 | 103 | 0 | 14 | 81 |
| U. RI | 32 | 1 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 21 |
| Vermont | 65 | 5 | 0 | 2 | 1 | 0 | 24 | 0 | 0 | 33 |
| U. VT | 65 | 5 | 0 | 2 | 1 | 0 | 24 | 0 | 0 | 33 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Middle Atlantic | 6,052 | 100 | 9 | 356 | 82 | 5 | 1,287 | 10 | 468 | 3,735 |
| New Jersey | 718 | 13 | 5 | 30 | 12 | 0 | 203 | 0 | 28 | 427 |
| Montclair State U. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| NJ Institute of Technology | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 |
| Princeton U. | 362 | 8 | 1 | 14 | 6 | 0 | 141 | 0 | 2 | 190 |
| Rutgers, State U. NJ | 214 | 2 | 4 | 5 | 3 | 0 | 35 | 0 | 24 | 141 |
| Seton Hall U. | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Stevens Institute of Technology | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 4 |
| U. of Medicine and Dentistry of NJ | 121 | 1 | 0 | 11 | 3 | 0 | 25 | 0 | 0 | 81 |
| William Paterson U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| New York | 3,594 | 55 | 2 | 247 | 44 | 2 | 751 | 7 | 194 | 2,292 |
| Albany Medical C. | 49 | 0 | 0 | 5 | 0 | 0 | 10 | 0 | 0 | 34 |
| Clarkson U. | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Columbia U. in the City of New York | 676 | 7 | 0 | 30 | 12 | 1 | 166 | 0 | 44 | 416 |
| Cornell U. | 440 | 11 | 1 | 42 | 7 | 0 | 144 | 0 | 4 | 231 |
| CUNY, Brooklyn C. | 18 | 1 | 0 | 2 | 1 | 0 | 5 | 1 | 0 | 8 |
| CUNY, City C. | 42 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 5 | 28 |
| CUNY, C. Staten Island | 11 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 7 |
| CUNY, Graduate Ctr. | 24 | 1 | 0 | 6 | 0 | 0 | 4 | 0 | 0 | 13 |
| CUNY, Hunter C. | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| CUNY, Queens C. | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 |
| Fordham U. | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Hofstra U. | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Mt. Sinai School of Medicine | 502 | 11 | 0 | 36 | 10 | 0 | 78 | 0 | 0 | 367 |
| NY Medical C. | 29 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 27 |
| NY U. | 489 | 9 | 0 | 45 | 5 | 0 | 110 | 0 | 26 | 294 |
| Polytechnic Institute of NY U. | 5 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 |
| Rensselaer Polytechnic U., Troy | 37 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 31 |
| Rochester Institute of Technology | 15 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 9 |
| Rockefeller U. | 266 | 1 | 0 | 22 | 1 | 0 | 76 | 0 | 0 | 166 |
| SUNY, Binghamton U. | 17 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 11 |
| SUNY, C. of Environmental Science and Forestry | 5 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 |
| SUNY, C. of Optometry | 8 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| SUNY, Downstate Medical Ctr. | 21 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 16 |
| SUNY, Stony Brook U. | 129 | 1 | 0 | 9 | 1 | 0 | 26 | 0 | 4 | 88 |
| SUNY, U. Albany | 28 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 18 | 6 |
| SUNY, U. Buffalo | 209 | 2 | 1 | 9 | 1 | 0 | 30 | 0 | 8 | 158 |
| SUNY, Upstate Medical U. | 19 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 16 |
| Syracuse U. | 45 | 0 | 0 | 0 | 2 | 0 | 16 | 0 | 0 | 27 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. Rochester | 205 | 0 | 0 | 3 | 2 | 0 | 25 | 1 | 59 | 115 |
| Yeshiva U. | 264 | 9 | 0 | 20 | 0 | 1 | 28 | 5 | 3 | 198 |
| Pennsylvania | 1,740 | 32 | 2 | 79 | 26 | 3 | 333 | 3 | 246 | 1,016 |
| Bryn Mawr C. | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Carnegie Mellon U. | 152 | 0 | 1 | 10 | 3 | 0 | 37 | 0 | 14 | 87 |
| Drexel U. | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 37 |
| Duquesne U. | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Lehigh U. | 24 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 13 |
| PA State U. | 336 | 3 | 1 | 8 | 1 | 0 | 74 | 1 | 27 | 221 |
| St. Joseph's U. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Swarthmore C. | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Temple U. | 67 | 0 | 0 | 2 | 0 | 0 | 17 | 0 | 0 | 48 |
| Thomas Jefferson U. | 101 | 5 | 0 | 11 | 1 | 0 | 28 | 0 | 0 | 56 |
| U. PA | 592 | 15 | 0 | 1 | 17 | 3 | 52 | 2 | 182 | 320 |
| U. Pittsburgh | 394 | 7 | 0 | 46 | 3 | 0 | 110 | 0 | 0 | 228 |
| U. of the Sciences Philadelphia | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| Villanova U. | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| West Chester U. PA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| East North Central[b] | 4,514 | 53 | 10 | 302 | 62 | 5 | 1,471 | 10 | 180 | 2,421 |
| Illinois[b] | 1,415 | 15 | 3 | 66 | 25 | 0 | 386 | 2 | 93 | 825 |
| IL Institute of Technology | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 13 |
| IL State U. | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| Loyola U., Chicago | 40 | 0 | 3 | 3 | 2 | 0 | 9 | 0 | 0 | 23 |
| Midwestern U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Northern IL U. | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Northwestern U. | 361 | 1 | 0 | 17 | 5 | 0 | 99 | 0 | 53 | 186 |
| Rosalind Franklin U. of Medicine and Science | 13 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 8 |
| Southern IL U., Carbondale | 10 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 7 |
| U. Chicago | 407 | 4 | 0 | 13 | 6 | 0 | 136 | 2 | 5 | 241 |
| U. IL, Chicago | 131 | 2 | 0 | 8 | 3 | 0 | 23 | 0 | 4 | 91 |
| U. IL, Urbana-Champaign | 401 | 8 | 0 | 21 | 9 | 0 | 112 | 0 | 4 | 247 |
| Indiana | 521 | 3 | 0 | 32 | 7 | 0 | 135 | 1 | 12 | 331 |
| IN State U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| IN U. | 202 | 1 | 0 | 18 | 3 | 0 | 78 | 0 | 0 | 102 |
| Purdue U. | 222 | 1 | 0 | 12 | 2 | 0 | 39 | 0 | 5 | 163 |
| U. Notre Dame | 95 | 1 | 0 | 2 | 2 | 0 | 17 | 1 | 7 | 65 |
| Valparaiso U. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Michigan | 1,022 | 14 | 2 | 68 | 13 | 0 | 290 | 4 | 36 | 595 |
| Central MI U. | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| MI State U. | 382 | 5 | 1 | 18 | 7 | 0 | 113 | 1 | 0 | 237 |
| MI Technological U. | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 |
| Oakland U. | 15 | 0 | 1 | 11 | 0 | 0 | 1 | 0 | 2 | 0 |
| U. MI | 521 | 9 | 0 | 29 | 5 | 0 | 142 | 3 | 28 | 305 |
| Wayne State U. | 80 | 0 | 0 | 9 | 1 | 0 | 27 | 0 | 1 | 42 |
| Western MI U. | 8 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 1 | 1 |
| Ohio | 671 | 9 | 3 | 50 | 12 | 5 | 176 | 3 | 14 | 399 |
| Bowling Green State U. | 26 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 21 |
| Case Western Reserve U. | 120 | 1 | 2 | 19 | 3 | 5 | 31 | 0 | 0 | 59 |
| Cleveland State U. | 11 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 8 |
| Kent State U. | 22 | 0 | 0 | 0 | 1 | 0 | 7 | 0 | 1 | 13 |
| Miami U. | 30 | 0 | 0 | 3 | 2 | 0 | 12 | 0 | 0 | 13 |
| Northeastern OH Universities, C. of Medicine | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 10 |
| OH State U. | 277 | 4 | 1 | 21 | 3 | 0 | 71 | 0 | 3 | 174 |
| OH U. | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 5 |
| U. Akron | 19 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 12 |
| U. Cincinnati | 84 | 1 | 0 | 4 | 1 | 0 | 26 | 1 | 3 | 48 |
| U. Dayton | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| U. Toledo | 41 | 0 | 0 | 0 | 2 | 0 | 10 | 0 | 2 | 27 |
| Wright State U. | 13 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 3 | 4 |
| Youngstown State U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wisconsin | 885 | 12 | 2 | 86 | 5 | 0 | 484 | 0 | 25 | 271 |
| Marquette U. | 17 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 13 |
| Medical C. WI | 72 | 0 | 0 | 2 | 1 | 0 | 29 | 0 | 0 | 40 |
| U. WI, Madison | 791 | 11 | 2 | 83 | 4 | 0 | 450 | 0 | 25 | 216 |
| U. WI, Milwaukee | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 |
| West North Central | 1,918 | 36 | 0 | 155 | 16 | 1 | 563 | 1 | 104 | 1,042 |
| Iowa | 321 | 5 | 0 | 5 | 6 | 1 | 82 | 0 | 13 | 209 |
| IA State U. | 161 | 1 | 0 | 2 | 4 | 0 | 26 | 0 | 13 | 115 |
| U. IA | 159 | 4 | 0 | 3 | 2 | 1 | 56 | 0 | 0 | 93 |
| U. Northern IA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Kansas | 199 | 2 | 0 | 3 | 1 | 0 | 53 | 0 | 6 | 134 |
| KS State U. | 63 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 6 | 47 |
| U. KS | 135 | 1 | 0 | 3 | 1 | 0 | 43 | 0 | 0 | 87 |
| Wichita State U. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Minnesota | 541 | 18 | 0 | 33 | 2 | 0 | 168 | 1 | 37 | 282 |
| Mayo Graduate School | 141 | 3 | 0 | 10 | 0 | 0 | 37 | 0 | 1 | 90 |
| U. MN | 400 | 15 | 0 | 23 | 2 | 0 | 131 | 1 | 36 | 192 |
| Missouri | 562 | 4 | 0 | 102 | 7 | 0 | 202 | 0 | 38 | 209 |
| A. T. Still U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lincoln U., Jefferson City | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| MO U. of Science and Technology | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| St. Louis U. | 33 | 0 | 0 | 3 | 0 | 0 | 8 | 0 | 0 | 22 |
| U. MO, Columbia | 239 | 0 | 0 | 9 | 2 | 0 | 73 | 0 | 7 | 148 |
| U. MO, Kansas City | 15 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 8 |
| U. MO, St. Louis | 15 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 0 | 8 |
| Washington U., St. Louis | 250 | 4 | 0 | 85 | 4 | 0 | 112 | 0 | 31 | 14 |
| Nebraska | 208 | 7 | 0 | 10 | 0 | 0 | 43 | 0 | 2 | 146 |
| Creighton U. | 22 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 16 |
| U. NE, Lincoln | 115 | 3 | 0 | 7 | 0 | 0 | 31 | 0 | 0 | 74 |
| U. NE, Medical Ctr. | 69 | 2 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 56 |
| U. NE, Omaha | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| North Dakota | 49 | 0 | 0 | 2 | 0 | 0 | 6 | 0 | 0 | 41 |
| ND State U. | 38 | 0 | 0 | 2 | 0 | 0 | 6 | 0 | 0 | 30 |
| U. ND | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| South Dakota | 38 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 21 |
| SD School of Mines and Technology | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| SD State U. | 23 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 16 |
| U. SD | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 |
| South Atlantic | 5,266 | 124 | 8 | 559 | 134 | 2 | 1,609 | 10 | 240 | 2,580 |
| Delaware | 70 | 0 | 1 | 10 | 1 | 0 | 14 | 0 | 2 | 42 |
| DE State U. | 6 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 2 | 0 |
| U. DE | 64 | 0 | 0 | 7 | 1 | 0 | 14 | 0 | 0 | 42 |
| District of Columbia | 156 | 3 | 0 | 16 | 2 | 0 | 34 | 0 | 35 | 66 |
| Catholic U. America | 9 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 5 |
| Gallaudet U. | 11 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| George Washington U. | 52 | 3 | 0 | 11 | 0 | 0 | 12 | 0 | 26 | 0 |
| Georgetown U. | 69 | 0 | 0 | 3 | 0 | 0 | 10 | 0 | 8 | 48 |
| Howard U. | 15 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 13 |
| Florida | 895 | 49 | 0 | 140 | 21 | 0 | 271 | 2 | 32 | 380 |
| FL A&M U. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| FL Atlantic U. | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| FL Institute of Technology | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| FL International U. | 32 | 5 | 0 | 1 | 0 | 0 | 7 | 0 | 0 | 19 |
| FL State U. | 205 | 4 | 0 | 6 | 3 | 0 | 42 | 0 | 1 | 149 |
| Nova Southeastern U. | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| U. Central FL | 31 | 1 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 23 |
| U. FL | 383 | 23 | 0 | 121 | 13 | 0 | 144 | 2 | 29 | 51 |
| U. Miami | 108 | 12 | 0 | 9 | 4 | 0 | 21 | 0 | 0 | 62 |
| U. South FL, Tampa | 116 | 4 | 0 | 2 | 1 | 0 | 49 | 0 | 1 | 59 |
| Georgia | 909 | 14 | 3 | 115 | 31 | 0 | 189 | 1 | 57 | 499 |
| Clark Atlanta U. | 11 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 2 | 2 |
| Emory U. | 378 | 8 | 2 | 29 | 14 | 0 | 86 | 1 | 34 | 204 |
| GA Health Sciences U. | 112 | 0 | 0 | 3 | 0 | 0 | 10 | 0 | 1 | 98 |
| GA Institute of Technology | 114 | 3 | 0 | 28 | 4 | 0 | 39 | 0 | 1 | 39 |
| GA State U. | 68 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 4 | 53 |
| Mercer U. | 8 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 4 |
| Morehouse School of Medicine | 15 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 7 |
| U. GA | 203 | 3 | 1 | 40 | 6 | 0 | 46 | 0 | 15 | 92 |
| Maryland | 1,158 | 15 | 0 | 96 | 32 | 1 | 270 | 5 | 59 | 680 |
| Johns Hopkins U. | 594 | 7 | 0 | 48 | 22 | 1 | 140 | 2 | 42 | 332 |
| Uniformed Services U. of the Health Sciences | 64 | 2 | 0 | 6 | 4 | 0 | 22 | 2 | 5 | 23 |
| U. MD, Baltimore | 142 | 3 | 0 | 9 | 2 | 0 | 28 | 0 | 1 | 99 |
| U. MD, Baltimore County | 75 | 1 | 0 | 4 | 3 | 0 | 14 | 0 | 0 | 53 |
| U. MD, College Park | 283 | 2 | 0 | 29 | 1 | 0 | 66 | 1 | 11 | 173 |
| North Carolina | 1,203 | 31 | 2 | 109 | 29 | 1 | 520 | 1 | 20 | 490 |
| Duke U. | 411 | 9 | 1 | 33 | 8 | 0 | 174 | 0 | 6 | 180 |
| East Carolina U. | 32 | 0 | 0 | 4 | 1 | 0 | 10 | 0 | 0 | 17 |
| NC Agricultural and Technical State U. | 14 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 9 |
| NC State U. | 154 | 4 | 0 | 33 | 0 | 0 | 71 | 1 | 1 | 44 |
| U. NC, Chapel Hill | 472 | 14 | 0 | 32 | 14 | 1 | 212 | 0 | 7 | 192 |
| U. NC, Charlotte | 22 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 17 |
| U. NC, Greensboro | 11 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 |
| U. NC, Wilmington | 10 | 0 | 1 | 0 | 0 | 0 | 5 | 0 | 2 | 2 |
| Wake Forest U. | 77 | 4 | 0 | 5 | 5 | 0 | 35 | 0 | 4 | 24 |
| South Carolina | 223 | 0 | 1 | 36 | 9 | 0 | 82 | 0 | 8 | 87 |
| Clemson U. | 35 | 0 | 1 | 20 | 3 | 0 | 10 | 0 | 0 | 1 |
| Furman U. | 3 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Medical U. SC | 112 | 0 | 0 | 13 | 3 | 0 | 46 | 0 | 0 | 50 |
| U. SC | 73 | 0 | 0 | 1 | 3 | 0 | 25 | 0 | 8 | 36 |
| Virginia | 590 | 11 | 1 | 30 | 9 | 0 | 213 | 1 | 20 | 305 |
| C. of William and Mary | 31 | 0 | 0 | 1 | 0 | 0 | 14 | 0 | 0 | 16 |
| Eastern VA Medical School | 14 | 0 | 0 | 8 | 2 | 0 | 2 | 0 | 1 | 1 |
| George Mason U. | 26 | 1 | 0 | 1 | 0 | 0 | 6 | 0 | 4 | 14 |
| Hampton U. | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| Old Dominion U. | 20 | 0 | 1 | 0 | 0 | 0 | 7 | 0 | 0 | 12 |
| U. VA | 249 | 4 | 0 | 13 | 1 | 0 | 101 | 0 | 14 | 116 |
| VA Commonwealth U. | 127 | 1 | 0 | 3 | 4 | 0 | 43 | 0 | 1 | 75 |
| VA Polytechnic Institute and State U. | 118 | 5 | 0 | 4 | 2 | 0 | 38 | 1 | 0 | 68 |
| West Virginia | 62 | 1 | 0 | 7 | 0 | 0 | 16 | 0 | 7 | 31 |
| Marshall U. | 6 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 3 |
| WV U. | 56 | 1 | 0 | 6 | 0 | 0 | 14 | 0 | 7 | 28 |
| East South Central | 1,284 | 16 | 0 | 96 | 38 | 0 | 397 | 4 | 69 | 664 |
| Alabama | 235 | 5 | 0 | 23 | 10 | 0 | 73 | 1 | 7 | 116 |
| AL A&M U. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| AL State U. | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 9 |
| Auburn U. | 27 | 2 | 0 | 7 | 0 | 0 | 13 | 0 | 0 | 5 |
| U. AL, Birmingham | 128 | 2 | 0 | 11 | 10 | 0 | 46 | 1 | 0 | 58 |
| U. AL, Huntsville | 17 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 0 | 9 |
| U. AL, Tuscaloosa | 34 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 27 |
| U. South AL | 13 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 1 | 8 |
| Kentucky | 240 | 0 | 0 | 9 | 2 | 0 | 58 | 0 | 22 | 149 |
| U. KY | 185 | 0 | 0 | 6 | 0 | 0 | 49 | 0 | 22 | 108 |
| U. Louisville | 55 | 0 | 0 | 3 | 2 | 0 | 9 | 0 | 0 | 41 |
| Mississippi | 126 | 1 | 0 | 7 | 4 | 0 | 17 | 1 | 2 | 94 |
| Jackson State U. | 25 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 21 |
| MS State U. | 17 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 12 |
| U. MS | 63 | 0 | 0 | 2 | 4 | 0 | 12 | 1 | 0 | 44 |
| U. Southern MS | 21 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 17 |
| Tennessee | 683 | 10 | 0 | 57 | 22 | 0 | 249 | 2 | 38 | 305 |
| East TN State U. | 9 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 3 |
| Fisk U. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| Meharry Medical C. | 36 | 0 | 0 | 3 | 9 | 0 | 4 | 0 | 0 | 20 |
| U. Memphis | 18 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 1 | 11 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. TN, Health Science Ctr. | 63 | 1 | 0 | 1 | 3 | 0 | 10 | 0 | 2 | 46 |
| U. TN, Knoxville | 133 | 4 | 0 | 5 | 1 | 0 | 40 | 1 | 1 | 81 |
| Vanderbilt U. | 420 | 5 | 0 | 48 | 7 | 0 | 185 | 1 | 33 | 141 |
| West South Central | 2,838 | 58 | 5 | 253 | 35 | 6 | 555 | 2 | 175 | 1,749 |
| Arkansas | 123 | 1 | 1 | 8 | 1 | 0 | 33 | 1 | 3 | 75 |
| AR State U. | 13 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 8 |
| U. AR, Fayetteville | 70 | 1 | 0 | 4 | 0 | 0 | 22 | 0 | 3 | 40 |
| U. AR for Medical Sciences | 31 | 0 | 1 | 2 | 0 | 0 | 7 | 0 | 0 | 21 |
| U. AR, Little Rock | 9 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 6 |
| Louisiana | 338 | 3 | 1 | 19 | 5 | 0 | 63 | 1 | 34 | 212 |
| LA State U. | 254 | 1 | 1 | 10 | 2 | 0 | 43 | 0 | 34 | 163 |
| LA Tech U. | 5 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 |
| Southern U. and A&M C. | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 3 |
| Tulane U. | 69 | 2 | 0 | 5 | 3 | 0 | 15 | 1 | 0 | 43 |
| U. LA, Lafayette | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Oklahoma | 160 | 3 | 0 | 43 | 1 | 0 | 53 | 0 | 2 | 58 |
| OK State U. | 49 | 1 | 0 | 6 | 1 | 0 | 16 | 0 | 0 | 25 |
| U. OK | 109 | 2 | 0 | 37 | 0 | 0 | 37 | 0 | 2 | 31 |
| U. Tulsa | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Texas | 2,217 | 51 | 3 | 183 | 28 | 6 | 406 | 0 | 136 | 1,404 |
| Baylor C. of Medicine | 322 | 7 | 0 | 31 | 1 | 0 | 36 | 0 | 50 | 197 |
| Baylor U. | 14 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 8 |
| Prairie View A&M U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Rice U. | 123 | 3 | 0 | 0 | 4 | 5 | 48 | 0 | 2 | 61 |
| Sam Houston State U. | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Southern Methodist U. | 23 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 19 |
| TX A&M Health Science Ctr. | 99 | 1 | 0 | 10 | 2 | 0 | 16 | 0 | 0 | 70 |
| TX A&M U. | 228 | 5 | 0 | 9 | 1 | 0 | 60 | 0 | 7 | 146 |
| TX A&M U., Commerce | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| TX A&M U., Corpus Christi | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| TX Christian U. | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 6 |
| TX Southern U. | 3 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| TX State U., San Marcos | 9 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 1 | 2 |
| TX Tech U. | 92 | 3 | 0 | 11 | 1 | 0 | 24 | 0 | 2 | 51 |
| U. Houston | 157 | 0 | 0 | 21 | 4 | 0 | 18 | 0 | 1 | 113 |
| U. North TX, Denton | 26 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 20 |
| U. TX, Arlington | 45 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 41 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. TX, Austin | 161 | 4 | 0 | 14 | 0 | 0 | 57 | 0 | 4 | 82 |
| U. TX, Dallas | 40 | 0 | 1 | 5 | 1 | 0 | 14 | 0 | 2 | 17 |
| U. TX, El Paso | 15 | 4 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 6 |
| U. TX, Health Science Ctr., San Antonio | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 49 |
| U. TX, M. D. Anderson Cancer Ctr. | 228 | 8 | 0 | 15 | 4 | 0 | 33 | 0 | 0 | 168 |
| U. TX, Medical Branch | 126 | 4 | 0 | 13 | 4 | 1 | 21 | 0 | 0 | 83 |
| U. TX, Pan American | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| U. TX, Permian Basin | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. TX, San Antonio | 31 | 1 | 0 | 22 | 0 | 0 | 5 | 0 | 0 | 3 |
| U. TX, Southwestern Medical Ctr., Dallas | 374 | 9 | 1 | 21 | 4 | 0 | 49 | 0 | 41 | 249 |
| Mountain | 2,272 | 58 | 4 | 124 | 13 | 2 | 814 | 3 | 369 | 885 |
| Arizona | 413 | 6 | 0 | 26 | 3 | 1 | 108 | 1 | 56 | 212 |
| AZ State U. | 164 | 3 | 0 | 17 | 1 | 0 | 48 | 1 | 2 | 92 |
| Northern AZ U. | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| U. AZ | 236 | 3 | 0 | 9 | 2 | 1 | 60 | 0 | 41 | 120 |
| Colorado | 994 | 33 | 2 | 78 | 5 | 1 | 523 | 0 | 66 | 286 |
| CO School of Mines | 17 | 0 | 0 | 2 | 0 | 0 | 14 | 0 | 0 | 1 |
| CO State U., Ft. Collins | 193 | 7 | 1 | 30 | 2 | 1 | 77 | 0 | 15 | 60 |
| U. CO | 772 | 26 | 1 | 46 | 3 | 0 | 427 | 0 | 51 | 218 |
| U. Denver | 12 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 7 |
| Idaho | 51 | 2 | 0 | 3 | 0 | 0 | 24 | 0 | 0 | 22 |
| Boise State U. | 7 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| ID State U. | 10 | 1 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 3 |
| U. ID | 34 | 0 | 0 | 2 | 0 | 0 | 15 | 0 | 0 | 17 |
| Montana | 80 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 10 | 34 |
| MT State U. | 48 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 10 | 26 |
| U. MT | 32 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 8 |
| Nevada | 77 | 2 | 0 | 1 | 1 | 0 | 30 | 1 | 0 | 42 |
| U. NV, Las Vegas | 22 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 17 |
| U. NV, Reno | 55 | 2 | 0 | 1 | 0 | 0 | 26 | 1 | 0 | 25 |
| New Mexico | 148 | 15 | 2 | 11 | 4 | 0 | 61 | 0 | 4 | 51 |
| Eastern NM U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NM Institute of Mining and Technology | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NM State U. | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 8 |
| U. NM | 134 | 15 | 2 | 11 | 4 | 0 | 60 | 0 | 1 | 41 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Utah | 458 | 0 | 0 | 1 | 0 | 0 | 16 | 1 | 230 | 210 |
| Brigham Young U. | 18 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 10 |
| U. UT | 416 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 228 | 188 |
| UT State U. | 24 | 0 | 0 | 1 | 0 | 0 | 10 | 1 | 0 | 12 |
| Wyoming | 51 | 0 | 0 | 4 | 0 | 0 | 16 | 0 | 3 | 28 |
| U. WY | 51 | 0 | 0 | 4 | 0 | 0 | 16 | 0 | 3 | 28 |
| Pacific[b] | 7,289 | 169 | 9 | 644 | 57 | 21 | 1,879 | 6 | 1,361 | 3,143 |
| Alaska | 45 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 18 |
| U. AK, Anchorage | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| U. AK, Fairbanks | 40 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 17 |
| U. AK, Southeast | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| California[b] | 5,910 | 148 | 8 | 589 | 55 | 9 | 1,429 | 4 | 1,088 | 2,580 |
| CA Institute of Technology | 463 | 8 | 0 | 49 | 3 | 0 | 144 | 2 | 1 | 256 |
| CA State U., Fresno | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| CA State U., Los Angeles | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| Loma Linda U. | 6 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| San Diego State U. | 35 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 24 |
| San Francisco State U. | 16 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 10 |
| Stanford U. | 859 | 17 | 5 | 42 | 12 | 2 | 232 | 1 | 63 | 485 |
| U. CA, Berkeley | 853 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 826 | 27 |
| U. CA, Davis | 538 | 18 | 1 | 131 | 1 | 0 | 221 | 0 | 38 | 128 |
| U. CA, Irvine | 266 | 8 | 0 | 18 | 1 | 1 | 59 | 0 | 7 | 172 |
| U. CA, Los Angeles | 657 | 23 | 0 | 70 | 8 | 0 | 175 | 0 | 14 | 367 |
| U. CA, San Diego | 793 | 20 | 2 | 39 | 3 | 5 | 191 | 1 | 39 | 493 |
| U. CA, San Francisco | 647 | 36 | 0 | 192 | 17 | 0 | 242 | 0 | 21 | 139 |
| U. CA, Santa Barbara | 214 | 3 | 0 | 10 | 6 | 0 | 74 | 0 | 2 | 119 |
| U. CA, Santa Cruz | 144 | 6 | 0 | 14 | 0 | 0 | 45 | 0 | 27 | 52 |
| U. San Diego | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. Southern CA | 213 | 6 | 0 | 18 | 4 | 1 | 40 | 0 | 4 | 140 |
| Hawaii | 182 | 1 | 0 | 6 | 0 | 10 | 33 | 2 | 6 | 124 |
| U. HI, Manoa | 182 | 1 | 0 | 6 | 0 | 10 | 33 | 2 | 6 | 124 |
| Oregon | 416 | 5 | 1 | 25 | 1 | 0 | 191 | 0 | 35 | 158 |
| OR Health and Science U. | 179 | 2 | 0 | 19 | 1 | 0 | 101 | 0 | 0 | 56 |
| OR State U. | 132 | 3 | 1 | 5 | 0 | 0 | 64 | 0 | 6 | 53 |
| Portland State U. | 25 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 1 | 14 |
| U. OR | 80 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 28 | 35 |

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Washington | 736 | 15 | 0 | 24 | 1 | 2 | 199 | 0 | 232 | 263 |
| U. WA | 590 | 12 | 0 | 22 | 1 | 2 | 169 | 0 | 228 | 156 |
| WA State U. | 144 | 3 | 0 | 2 | 0 | 0 | 29 | 0 | 4 | 106 |
| Western WA U. | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Outlying Areas | 53 | 21 | 0 | 2 | 0 | 0 | 4 | 0 | 1 | 25 |
| Puerto Rico | 53 | 21 | 0 | 2 | 0 | 0 | 4 | 0 | 1 | 25 |
| Ponce School of Medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Universidad Central del Caribe | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. PR, Mayaguez | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. PR, Medical Sciences Campus | 11 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| U. PR, Rio Piedras | 38 | 12 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 22 |

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."
[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| All institutions[b] | 6,956 | 63 | 4 | 587 | 64 | 7 | 1,178 | 11 | 744 | 4,298 |
| New England | 1,141 | 4 | 0 | 60 | 4 | 0 | 130 | 2 | 181 | 760 |
| Connecticut | 86 | 0 | 0 | 5 | 1 | 0 | 12 | 0 | 6 | 62 |
| U. CT | 24 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 19 |
| Yale U. | 62 | 0 | 0 | 5 | 1 | 0 | 11 | 0 | 2 | 43 |
| Maine | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 |
| U. ME | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 |
| Massachusetts | 968 | 4 | 0 | 55 | 3 | 0 | 110 | 2 | 153 | 641 |
| Boston U. | 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 101 |
| Harvard U. | 88 | 1 | 0 | 9 | 1 | 0 | 21 | 1 | 0 | 55 |
| MA Institute of Technology | 588 | 3 | 0 | 29 | 2 | 0 | 75 | 1 | 85 | 393 |
| Northeastern U. | 27 | 0 | 0 | 7 | 0 | 0 | 4 | 0 | 7 | 9 |
| Tufts U. | 24 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 19 |
| U. MA, Amherst | 53 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 2 | 42 |
| U. MA, Dartmouth | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. MA, Lowell | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| Woods Hole Oceanographic Institution | 11 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 8 |
| Worcester Polytechnic Institute | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 |
| New Hampshire | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 19 |
| Dartmouth C. | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 18 |
| U. NH | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Rhode Island | 44 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 36 |
| Brown U. | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 30 |
| U. RI | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| Vermont | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| U. VT | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| Middle Atlantic | 874 | 8 | 1 | 47 | 9 | 0 | 156 | 2 | 28 | 623 |
| New Jersey | 182 | 1 | 0 | 9 | 1 | 0 | 19 | 1 | 1 | 150 |
| NJ Institute of Technology | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 |
| Princeton U. | 122 | 1 | 0 | 3 | 0 | 0 | 15 | 1 | 0 | 102 |
| Rutgers, State U. NJ | 35 | 0 | 0 | 4 | 1 | 0 | 3 | 0 | 0 | 27 |
| Stevens Institute of Technology | 14 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 11 |
| New York | 357 | 3 | 0 | 25 | 7 | 0 | 68 | 1 | 13 | 240 |
| Alfred U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Clarkson U. | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| Field | Total | U.S. citizens and permanent residents | | | | | | | | Temporary visa holders |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| | | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | |
| Columbia U. in the City of New York | 75 | 0 | 0 | 6 | 2 | 0 | 19 | 0 | 0 | 48 |
| Cornell U. | 97 | 1 | 0 | 13 | 2 | 0 | 17 | 1 | 2 | 61 |
| CUNY, City C. | 42 | 1 | 0 | 1 | 1 | 0 | 9 | 0 | 0 | 30 |
| Polytechnic Institute of NY U. | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Rensselaer Polytechnic U., Troy | 55 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 37 |
| Rochester Institute of Technology | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| SUNY, Binghamton U. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| SUNY, C. of Environmental Science and Forestry | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| SUNY, Downstate Medical Ctr. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| SUNY, Stony Brook U. | 15 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 10 |
| SUNY, U. Albany | 11 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 7 |
| SUNY, U. Buffalo | 13 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 11 |
| Syracuse U. | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| U. Rochester | 17 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 11 |
| Pennsylvania | 335 | 4 | 1 | 13 | 1 | 0 | 69 | 0 | 14 | 233 |
| Carnegie Mellon U. | 48 | 0 | 1 | 1 | 1 | 0 | 11 | 0 | 2 | 32 |
| Drexel U. | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 13 |
| Lehigh U. | 25 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 21 |
| PA State U. | 95 | 2 | 0 | 5 | 0 | 0 | 16 | 0 | 0 | 72 |
| Temple U. | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| U. PA | 81 | 2 | 0 | 6 | 0 | 0 | 19 | 0 | 8 | 46 |
| U. Pittsburgh | 55 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 37 |
| Villanova U. | 9 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 7 |
| East North Central | 1,048 | 11 | 0 | 73 | 3 | 0 | 221 | 2 | 38 | 700 |
| Illinois | 305 | 5 | 0 | 21 | 1 | 0 | 47 | 1 | 5 | 225 |
| IL Institute of Technology | 37 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 3 | 28 |
| Northwestern U. | 166 | 2 | 0 | 14 | 1 | 0 | 35 | 0 | 2 | 112 |
| U. IL, Chicago | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| U. IL, Urbana-Champaign | 94 | 1 | 0 | 5 | 0 | 0 | 9 | 1 | 0 | 78 |
| Indiana | 153 | 1 | 0 | 5 | 0 | 0 | 27 | 0 | 4 | 116 |
| IN U. | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Purdue U. | 90 | 0 | 0 | 5 | 0 | 0 | 18 | 0 | 1 | 66 |
| U. Notre Dame | 52 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 3 | 39 |
| Michigan | 277 | 2 | 0 | 15 | 2 | 0 | 60 | 0 | 6 | 192 |
| Central MI U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lawrence Technological U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| MI State U. | 47 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 40 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| Field | Total | U.S. citizens and permanent residents | | | | | | | | Temporary visa holders |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| | | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | |
| MI Technological U. | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 |
| Oakland U. | 6 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. MI | 194 | 2 | 0 | 8 | 1 | 0 | 51 | 0 | 1 | 131 |
| Wayne State U. | 18 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 14 |
| Western MI U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Ohio | 149 | 0 | 0 | 9 | 0 | 0 | 18 | 0 | 20 | 102 |
| Case Western Reserve U. | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 |
| OH State U. | 79 | 0 | 0 | 2 | 0 | 0 | 11 | 0 | 0 | 66 |
| OH U. | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 |
| U. Akron | 22 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 16 |
| U. Cincinnati | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 17 | 0 |
| U. Dayton | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| U. Toledo | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Wright State U. | 4 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 1 |
| Youngstown State U. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 164 | 3 | 0 | 23 | 0 | 0 | 69 | 1 | 3 | 65 |
| Marquette U. | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. WI, Madison | 156 | 3 | 0 | 21 | 0 | 0 | 64 | 1 | 3 | 64 |
| U. WI, Milwaukee | 6 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 1 |
| West North Central | 401 | 3 | 0 | 37 | 0 | 0 | 51 | 1 | 5 | 304 |
| Iowa | 110 | 0 | 0 | 7 | 0 | 0 | 9 | 1 | 3 | 90 |
| IA State U. | 101 | 0 | 0 | 5 | 0 | 0 | 8 | 1 | 3 | 84 |
| U. IA | 9 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 6 |
| Kansas | 19 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 16 |
| U. KS | 15 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 12 |
| Wichita State U. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Minnesota | 114 | 0 | 0 | 5 | 0 | 0 | 12 | 0 | 2 | 95 |
| U. MN | 114 | 0 | 0 | 5 | 0 | 0 | 12 | 0 | 2 | 95 |
| Missouri | 95 | 2 | 0 | 23 | 0 | 0 | 15 | 0 | 0 | 55 |
| MO State U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MO U. of Science and Technology | 25 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 23 |
| St. Louis U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. MO, Columbia | 26 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 22 |
| U. MO, Kansas City | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Washington U., St. Louis | 40 | 2 | 0 | 23 | 0 | 0 | 9 | 0 | 0 | 6 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Nebraska | 31 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 24 |
| U. NE, Lincoln | 31 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 24 |
| North Dakota | 15 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 13 |
| ND State U. | 14 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 12 |
| U. ND | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| South Dakota | 17 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 11 |
| SD School of Mines and Technology | 10 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 |
| SD State U. | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| South Atlantic | 1,024 | 16 | 1 | 166 | 28 | 1 | 215 | 4 | 49 | 544 |
| Delaware | 49 | 1 | 0 | 2 | 0 | 0 | 13 | 0 | 0 | 33 |
| U. DE | 49 | 1 | 0 | 2 | 0 | 0 | 13 | 0 | 0 | 33 |
| District of Columbia | 10 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 0 | 0 |
| George Washington U. | 10 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 0 | 0 |
| Florida | 174 | 8 | 1 | 33 | 5 | 0 | 41 | 1 | 4 | 81 |
| FL Atlantic U. | 4 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| FL Institute of Technology | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| FL International U. | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| FL State U. | 36 | 0 | 1 | 1 | 4 | 0 | 2 | 0 | 0 | 28 |
| U. Central FL | 27 | 0 | 0 | 3 | 0 | 0 | 8 | 1 | 0 | 15 |
| U. FL | 78 | 6 | 0 | 24 | 1 | 0 | 22 | 0 | 3 | 22 |
| U. Miami | 5 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 |
| U. South FL, Tampa | 15 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 6 |
| Georgia | 187 | 1 | 0 | 65 | 7 | 0 | 41 | 0 | 6 | 67 |
| Emory U. | 23 | 0 | 0 | 3 | 1 | 0 | 8 | 0 | 0 | 11 |
| GA Institute of Technology | 159 | 1 | 0 | 62 | 6 | 0 | 32 | 0 | 6 | 52 |
| U. GA | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| Maryland | 235 | 3 | 0 | 17 | 8 | 0 | 45 | 3 | 15 | 144 |
| Johns Hopkins U. | 122 | 2 | 0 | 3 | 4 | 0 | 16 | 3 | 13 | 81 |
| U. MD, Baltimore | 8 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 3 |
| U. MD, Baltimore County | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| U. MD, College Park | 100 | 1 | 0 | 14 | 3 | 0 | 23 | 0 | 2 | 57 |
| North Carolina | 155 | 2 | 0 | 32 | 5 | 1 | 26 | 0 | 20 | 69 |
| Duke U. | 70 | 0 | 0 | 2 | 1 | 0 | 11 | 0 | 19 | 37 |
| NC Agricultural and Technical State U. | 11 | 0 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 4 |
| NC State U. | 62 | 2 | 0 | 24 | 2 | 0 | 10 | 0 | 1 | 23 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. NC, Chapel Hill | 6 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| U. NC, Charlotte | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| South Carolina | 64 | 0 | 0 | 6 | 1 | 0 | 12 | 0 | 0 | 45 |
| Clemson U. | 12 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 0 | 4 |
| Medical U. SC | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| U. SC | 51 | 0 | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 41 |
| Virginia | 129 | 1 | 0 | 5 | 2 | 0 | 29 | 0 | 1 | 91 |
| George Mason U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Old Dominion U. | 10 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 9 |
| U. VA | 29 | 0 | 0 | 1 | 2 | 0 | 7 | 0 | 0 | 19 |
| VA Commonwealth U. | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| VA Polytechnic Institute and State U. | 75 | 1 | 0 | 4 | 0 | 0 | 21 | 0 | 0 | 49 |
| West Virginia | 21 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 14 |
| WV U. | 21 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 14 |
| East South Central | 166 | 2 | 0 | 14 | 2 | 0 | 35 | 0 | 5 | 108 |
| Alabama | 17 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 12 |
| Auburn U. | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| U. AL, Birmingham | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| U. AL, Huntsville | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. AL, Tuscaloosa | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| Kentucky | 39 | 1 | 0 | 3 | 1 | 0 | 11 | 0 | 4 | 19 |
| U. KY | 29 | 0 | 0 | 3 | 1 | 0 | 6 | 0 | 4 | 15 |
| U. Louisville | 10 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 4 |
| Mississippi | 25 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 23 |
| Jackson State U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| MS State U. | 20 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 19 |
| U. MS | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Tennessee | 85 | 1 | 0 | 6 | 1 | 0 | 22 | 0 | 1 | 54 |
| TN Technological U. | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| U. Memphis | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| U. TN, Health Science Ctr. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| U. TN, Knoxville | 45 | 0 | 0 | 2 | 1 | 0 | 12 | 0 | 0 | 30 |
| Vanderbilt U. | 31 | 0 | 0 | 2 | 0 | 0 | 9 | 0 | 0 | 20 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| West South Central | 451 | 4 | 0 | 48 | 8 | 5 | 74 | 0 | 5 | 307 |
| Arkansas | 33 | 0 | 0 | 1 | 2 | 0 | 4 | 0 | 0 | 26 |
| U. AR, Fayetteville | 33 | 0 | 0 | 1 | 2 | 0 | 4 | 0 | 0 | 26 |
| Louisiana | 29 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 22 |
| LA State U. | 16 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 12 |
| LA Tech U. | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Tulane U. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| U. LA, Lafayette | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| Oklahoma | 44 | 1 | 0 | 8 | 1 | 0 | 10 | 0 | 1 | 23 |
| OK State U. | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 4 |
| U. OK | 27 | 0 | 0 | 7 | 1 | 0 | 6 | 0 | 1 | 12 |
| U. Tulsa | 11 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 7 |
| Texas | 345 | 3 | 0 | 36 | 5 | 5 | 56 | 0 | 4 | 236 |
| Prairie View A&M U. | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Rice U. | 56 | 0 | 0 | 0 | 2 | 3 | 11 | 0 | 3 | 37 |
| Southern Methodist U. | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| TX A&M U. | 48 | 0 | 0 | 1 | 1 | 0 | 8 | 0 | 0 | 38 |
| TX Tech U. | 29 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 0 | 21 |
| U. Houston | 36 | 1 | 0 | 6 | 0 | 0 | 5 | 0 | 0 | 24 |
| U. North TX, Denton | 11 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 5 |
| U. TX, Arlington | 22 | 0 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 15 |
| U. TX, Austin | 96 | 1 | 0 | 9 | 0 | 0 | 15 | 0 | 0 | 71 |
| U. TX, Dallas | 29 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 0 | 20 |
| U. TX, El Paso | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. TX, Medical Branch | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. TX, Pan American | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| U. TX, San Antonio | 8 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 1 |
| U. TX, Tyler | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Mountain | 353 | 5 | 1 | 39 | 2 | 1 | 84 | 0 | 42 | 179 |
| Arizona | 70 | 1 | 0 | 11 | 0 | 1 | 13 | 0 | 7 | 37 |
| AZ State U. | 41 | 1 | 0 | 10 | 0 | 0 | 7 | 0 | 0 | 23 |
| U. AZ | 29 | 0 | 0 | 1 | 0 | 1 | 6 | 0 | 7 | 14 |
| Colorado | 133 | 2 | 0 | 24 | 1 | 0 | 54 | 0 | 9 | 43 |
| CO School of Mines | 26 | 0 | 0 | 10 | 0 | 0 | 15 | 0 | 0 | 1 |
| CO State U., Ft. Collins | 32 | 1 | 0 | 5 | 0 | 0 | 9 | 0 | 4 | 13 |
| U. CO | 75 | 1 | 0 | 9 | 1 | 0 | 30 | 0 | 5 | 29 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| Idaho | 15 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 13 |
| Boise State U. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ID State U. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| U. ID | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| Montana | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| MT State U. | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Nevada | 11 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 9 |
| U. NV, Las Vegas | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. NV, Reno | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 |
| New Mexico | 38 | 1 | 1 | 0 | 1 | 0 | 7 | 0 | 1 | 27 |
| NM Institute of Mining and Technology | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| NM State U. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| U. NM | 34 | 1 | 1 | 0 | 1 | 0 | 7 | 0 | 0 | 24 |
| Utah | 71 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 24 | 41 |
| Brigham Young U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. UT | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 39 |
| UT State U. | 7 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 1 |
| Wyoming | 12 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 9 |
| U. WY | 12 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 9 |
| Pacific[b] | 1,496 | 9 | 1 | 103 | 8 | 0 | 212 | 0 | 391 | 772 |
| Alaska | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| U. AK, Fairbanks | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| California[b] | 1,301 | 9 | 1 | 95 | 7 | 0 | 194 | 0 | 298 | 697 |
| CA Institute of Technology | 125 | 1 | 0 | 6 | 1 | 0 | 37 | 0 | 0 | 80 |
| Loyola Marymount U. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| San Diego State U. | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 |
| Santa Clara U. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stanford U. | 226 | 2 | 0 | 12 | 1 | 0 | 46 | 0 | 18 | 147 |
| U. CA, Berkeley | 353 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266 | 87 |
| U. CA, Davis | 128 | 2 | 1 | 47 | 3 | 0 | 36 | 0 | 6 | 33 |
| U. CA, Irvine | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 26 |
| U. CA, Los Angeles | 105 | 0 | 0 | 12 | 0 | 0 | 16 | 0 | 0 | 77 |
| U. CA, San Diego | 118 | 0 | 0 | 9 | 2 | 0 | 24 | 0 | 0 | 83 |
| U. CA, Santa Barbara | 120 | 2 | 0 | 7 | 0 | 0 | 31 | 0 | 1 | 79 |

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

| | | U.S. citizens and permanent residents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Not Hispanic or Latino | | | | | | | |
| Field | Total | Hispanic or Latino | American Indian or Alaska Native | Asian[a] | Black or African American | Native Hawaiian or Other Pacific Islander[a] | White | More than one race[a] | Unknown ethnicity/race | Temporary visa holders |
| U. CA, Santa Cruz | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 |
| U. Southern CA | 42 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 39 |
| Hawaii | 16 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 11 |
| U. HI, Manoa | 16 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 11 |
| Oregon | 30 | 0 | 0 | 7 | 0 | 0 | 13 | 0 | 0 | 10 |
| OR Health and Science U. | 12 | 0 | 0 | 5 | 0 | 0 | 7 | 0 | 0 | 0 |
| OR State U. | 11 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 5 |
| Portland State U. | 7 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 5 |
| Washington | 145 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 90 | 53 |
| U. WA | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 25 |
| WA State U. | 30 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 28 |
| Outlying Areas | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Puerto Rico | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| U. PR, Mayaguez | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."
[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| – | All institutions[a] | 63,415 | 44,051 | 37,095 | 6,956 | 19,364 |
| 1 | Harvard U. | 5,827 | 2,204 | 2,116 | 88 | 3,623 |
| 2 | Stanford U. | 1,777 | 1,085 | 859 | 226 | 692 |
| 3 | Johns Hopkins U. | 1,721 | 716 | 594 | 122 | 1,005 |
| 4 | U. CA, San Diego | 1,514 | 911 | 793 | 118 | 603 |
| 5 | U. WI, Madison | 1,369 | 947 | 791 | 156 | 422 |
| 6 | Columbia U. in the City of New York | 1,358 | 751 | 676 | 75 | 607 |
| 7 | MA Institute of Technology | 1,286 | 1,286 | 698 | 588 | 0 |
| 8 | Yale U. | 1,283 | 883 | 821 | 62 | 400 |
| 9 | U. CA, Berkeley | 1,253 | 1,206 | 853 | 353 | 47 |
| 10 | U. MI | 1,209 | 715 | 521 | 194 | 494 |
| 11 | U. WA | 1,175 | 705 | 590 | 115 | 470 |
| 12 | U. CA, Los Angeles | 1,121 | 762 | 657 | 105 | 359 |
| 13 | U. CA, San Francisco | 1,094 | 647 | 647 | 0 | 447 |
| 14 | U. PA | 1,042 | 673 | 592 | 81 | 369 |
| 15 | U. CO | 1,024 | 847 | 772 | 75 | 177 |
| 16 | U. Pittsburgh | 891 | 449 | 394 | 55 | 442 |
| 17 | Boston U. | 870 | 531 | 372 | 159 | 339 |
| 18 | U. CA, Davis | 860 | 666 | 538 | 128 | 194 |
| 19 | U. NC, Chapel Hill | 844 | 478 | 472 | 6 | 366 |
| 20 | Duke U. | 807 | 481 | 411 | 70 | 326 |
| 21 | Cornell U. | 765 | 537 | 440 | 97 | 228 |
| 22 | Northwestern U. | 741 | 527 | 361 | 166 | 214 |
| 23 | U. MN | 687 | 514 | 400 | 114 | 173 |
| 24 | Vanderbilt U. | 681 | 451 | 420 | 31 | 230 |
| 25 | Emory U. | 672 | 401 | 378 | 23 | 271 |
| 26 | U. FL | 648 | 461 | 383 | 78 | 187 |
| 27 | OH State U. | 597 | 356 | 277 | 79 | 241 |
| 28 | CA Institute of Technology | 588 | 588 | 463 | 125 | 0 |
| 29 | U. TX, Southwestern Medical Ctr., Dallas | 585 | 374 | 374 | 0 | 211 |
| 30 | U. TX, M. D. Anderson Cancer Ctr. | 581 | 228 | 228 | 0 | 353 |
| 31 | U. Chicago | 570 | 407 | 407 | 0 | 163 |
| 32 | U. IL, Urbana-Champaign | 513 | 495 | 401 | 94 | 18 |
| 33 | U. UT | 508 | 479 | 416 | 63 | 29 |
| 34 | Mt. Sinai School of Medicine | 502 | 502 | 502 | 0 | 0 |
| 35 | Baylor C. of Medicine | 494 | 322 | 322 | 0 | 172 |
| 36 | NY U. | 489 | 489 | 489 | 0 | 0 |
| 37 | Princeton U. | 484 | 484 | 362 | 122 | 0 |
| 38 | Washington U., St. Louis | 484 | 290 | 250 | 40 | 194 |
| 39 | PA State U. | 481 | 431 | 336 | 95 | 50 |
| 40 | MI State U. | 445 | 429 | 382 | 47 | 16 |
| 41 | U. Southern CA | 427 | 255 | 213 | 42 | 172 |
| 42 | U. MA, Medical School | 403 | 303 | 303 | 0 | 100 |
| 43 | Mayo Graduate School | 399 | 141 | 141 | 0 | 258 |
| 44 | U. MD, College Park | 396 | 383 | 283 | 100 | 13 |
| 45 | U. VA | 396 | 278 | 249 | 29 | 118 |
| 46 | Yeshiva U. | 393 | 264 | 264 | 0 | 129 |
| 47 | U. CA, Irvine | 387 | 295 | 266 | 29 | 92 |
| 48 | U. IA | 383 | 168 | 159 | 9 | 215 |
| 49 | U. MD, Baltimore | 378 | 150 | 142 | 8 | 228 |
| 50 | U. Rochester | 356 | 222 | 205 | 17 | 134 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 51 | Purdue U. | 351 | 312 | 222 | 90 | 39 |
| 52 | IN U. | 343 | 213 | 202 | 11 | 130 |
| 53 | U. CA, Santa Barbara | 334 | 334 | 214 | 120 | 0 |
| 54 | LA State U. | 326 | 270 | 254 | 16 | 56 |
| 55 | Rockefeller U. | 320 | 266 | 266 | 0 | 54 |
| 56 | U. KY | 320 | 214 | 185 | 29 | 106 |
| 57 | U. AZ | 310 | 265 | 236 | 29 | 45 |
| 58 | OR Health and Science U. | 306 | 191 | 179 | 12 | 115 |
| 59 | TX A&M U. | 304 | 276 | 228 | 48 | 28 |
| 60 | U. South FL, Tampa | 293 | 131 | 116 | 15 | 162 |
| 61 | U. TX, Austin | 287 | 257 | 161 | 96 | 30 |
| 62 | U. MO, Columbia | 286 | 265 | 239 | 26 | 21 |
| 63 | SUNY, U. Buffalo | 285 | 222 | 209 | 13 | 63 |
| 64 | U. Cincinnati | 280 | 102 | 84 | 18 | 178 |
| 65 | IA State U. | 278 | 262 | 161 | 101 | 16 |
| 66 | GA Institute of Technology | 273 | 273 | 114 | 159 | 0 |
| 67 | Brown U. | 271 | 248 | 211 | 37 | 23 |
| 68 | Rutgers, State U. NJ | 262 | 249 | 214 | 35 | 13 |
| 69 | U. IL, Chicago | 254 | 139 | 131 | 8 | 115 |
| 70 | U. KS | 245 | 150 | 135 | 15 | 95 |
| 71 | CO State U., Ft. Collins | 242 | 225 | 193 | 32 | 17 |
| 72 | VA Commonwealth U. | 242 | 140 | 127 | 13 | 102 |
| 73 | FL State U. | 241 | 241 | 205 | 36 | 0 |
| 74 | U. AL, Birmingham | 237 | 130 | 128 | 2 | 107 |
| 75 | NC State U. | 231 | 216 | 154 | 62 | 15 |
| 76 | TX A&M Health Science Ctr. | 229 | 99 | 99 | 0 | 130 |
| 77 | U. Miami | 227 | 113 | 108 | 5 | 114 |
| 78 | U. NM | 224 | 168 | 134 | 34 | 56 |
| 79 | U. GA | 219 | 208 | 203 | 5 | 11 |
| 80 | U. CT | 217 | 141 | 117 | 24 | 76 |
| 81 | U. HI, Manoa | 216 | 198 | 182 | 16 | 18 |
| 82 | U. TX, Health Science Ctr., Houston | 216 | 0 | 0 | 0 | 216 |
| 83 | U. MA, Amherst | 215 | 213 | 160 | 53 | 2 |
| 84 | AZ State U. | 210 | 205 | 164 | 41 | 5 |
| 85 | U. Houston | 209 | 193 | 157 | 36 | 16 |
| 86 | Wake Forest U. | 206 | 77 | 77 | 0 | 129 |
| 87 | Carnegie Mellon U. | 200 | 200 | 152 | 48 | 0 |
| 88 | U. TX, Medical Branch | 200 | 127 | 126 | 1 | 73 |
| 89 | VA Polytechnic Institute and State U. | 200 | 193 | 118 | 75 | 7 |
| 90 | WA State U. | 194 | 174 | 144 | 30 | 20 |
| 91 | Dartmouth C. | 191 | 170 | 138 | 32 | 21 |
| 92 | Medical U. SC | 188 | 113 | 112 | 1 | 75 |
| 93 | Tufts U. | 186 | 183 | 159 | 24 | 3 |
| 94 | OR State U. | 179 | 143 | 132 | 11 | 36 |
| 95 | Rice U. | 179 | 179 | 123 | 56 | 0 |
| 96 | U. TN, Knoxville | 179 | 178 | 133 | 45 | 1 |
| 97 | U. OK | 176 | 136 | 109 | 27 | 40 |
| 98 | SUNY, Stony Brook U. | 172 | 144 | 129 | 15 | 28 |
| 99 | Case Western Reserve U. | 160 | 130 | 120 | 10 | 30 |
| 100 | U. NE, Lincoln | 159 | 146 | 115 | 31 | 13 |
| 101 | U. of Medicine and Dentistry of NJ | 158 | 121 | 121 | 0 | 37 |
| 102 | U. CA, Santa Cruz | 155 | 155 | 144 | 11 | 0 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 103 | Thomas Jefferson U. | 152 | 101 | 101 | 0 | 51 |
| 104 | U. NE, Medical Ctr. | 148 | 69 | 69 | 0 | 79 |
| 105 | U. Notre Dame | 147 | 147 | 95 | 52 | 0 |
| 106 | U. SC | 147 | 124 | 73 | 51 | 23 |
| 107 | Medical C. WI | 141 | 72 | 72 | 0 | 69 |
| 108 | U. TX, Health Science Ctr., San Antonio | 139 | 75 | 75 | 0 | 64 |
| 109 | Tulane U. | 138 | 72 | 69 | 3 | 66 |
| 110 | TX Tech U. | 136 | 121 | 92 | 29 | 15 |
| 111 | U. Louisville | 134 | 65 | 55 | 10 | 69 |
| 112 | Wayne State U. | 131 | 98 | 80 | 18 | 33 |
| 113 | Georgetown U. | 126 | 69 | 69 | 0 | 57 |
| 114 | GA Health Sciences U. | 123 | 112 | 112 | 0 | 11 |
| 115 | U. DE | 120 | 113 | 64 | 49 | 7 |
| 116 | Brandeis U. | 111 | 111 | 111 | 0 | 0 |
| 117 | U. TN, Health Science Ctr. | 108 | 65 | 63 | 2 | 43 |
| 118 | SUNY, U. Albany | 106 | 39 | 28 | 11 | 67 |
| 119 | U. AR, Fayetteville | 103 | 103 | 70 | 33 | 0 |
| 120 | Temple U. | 101 | 72 | 67 | 5 | 29 |
| 121 | Northeastern U. | 96 | 84 | 57 | 27 | 12 |
| 122 | Rensselaer Polytechnic U., Troy | 92 | 92 | 37 | 55 | 0 |
| 123 | U. VT | 87 | 69 | 65 | 4 | 18 |
| 124 | CUNY, City C. | 84 | 84 | 42 | 42 | 0 |
| 125 | U. MS | 82 | 66 | 63 | 3 | 16 |
| 126 | WV U. | 81 | 77 | 56 | 21 | 4 |
| 127 | U. MD, Baltimore County | 80 | 80 | 75 | 5 | 0 |
| 128 | U. OR | 80 | 80 | 80 | 0 | 0 |
| 129 | KS State U. | 74 | 63 | 63 | 0 | 11 |
| 130 | Drexel U. | 73 | 73 | 56 | 17 | 0 |
| 131 | Woods Hole Oceanographic Institution | 71 | 71 | 60 | 11 | 0 |
| 132 | U. TX, Dallas | 70 | 69 | 40 | 29 | 1 |
| 133 | GA State U. | 69 | 68 | 68 | 0 | 1 |
| 134 | U. TX, Arlington | 67 | 67 | 45 | 22 | 0 |
| 135 | U. NV, Reno | 65 | 65 | 55 | 10 | 0 |
| 136 | Uniformed Services U. of the Health Sciences | 64 | 64 | 64 | 0 | 0 |
| 137 | U. WY | 64 | 63 | 51 | 12 | 1 |
| 138 | Boston C. | 62 | 62 | 62 | 0 | 0 |
| 139 | George Washington U. | 62 | 62 | 52 | 10 | 0 |
| 140 | MT State U. | 62 | 51 | 48 | 3 | 11 |
| 141 | U. Toledo | 62 | 46 | 41 | 5 | 16 |
| 142 | OK State U. | 61 | 55 | 49 | 6 | 6 |
| 143 | Loyola U., Chicago | 59 | 40 | 40 | 0 | 19 |
| 144 | U. Central FL | 58 | 58 | 31 | 27 | 0 |
| 145 | IL Institute of Technology | 53 | 53 | 16 | 37 | 0 |
| 146 | ND State U. | 53 | 52 | 38 | 14 | 1 |
| 147 | Albany Medical C. | 49 | 49 | 49 | 0 | 0 |
| 148 | Lehigh U. | 49 | 49 | 24 | 25 | 0 |
| 149 | Syracuse U. | 49 | 49 | 45 | 4 | 0 |
| 150 | Clemson U. | 47 | 47 | 35 | 12 | 0 |
| 151 | U. RI | 47 | 39 | 32 | 7 | 8 |
| 152 | U. AK, Fairbanks | 44 | 44 | 40 | 4 | 0 |
| 153 | CO School of Mines | 43 | 43 | 17 | 26 | 0 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 154 | San Diego State U. | 43 | 43 | 35 | 8 | 0 |
| 155 | U. MO, Kansas City | 43 | 17 | 15 | 2 | 26 |
| 156 | U. AL, Tuscaloosa | 42 | 42 | 34 | 8 | 0 |
| 157 | U. ID | 42 | 42 | 34 | 8 | 0 |
| 158 | U. North TX, Health Science Ctr. | 42 | 0 | 0 | 0 | 42 |
| 159 | U. Akron | 41 | 41 | 19 | 22 | 0 |
| 160 | FL International U. | 40 | 39 | 32 | 7 | 1 |
| 161 | MS State U. | 40 | 37 | 17 | 20 | 3 |
| 162 | Auburn U. | 39 | 33 | 27 | 6 | 6 |
| 163 | U. TX, San Antonio | 39 | 39 | 31 | 8 | 0 |
| 164 | U. PR, Rio Piedras | 38 | 38 | 38 | 0 | 0 |
| 165 | SD State U. | 37 | 30 | 23 | 7 | 7 |
| 166 | U. NH | 37 | 37 | 36 | 1 | 0 |
| 167 | U. North TX, Denton | 37 | 37 | 26 | 11 | 0 |
| 168 | Meharry Medical C. | 36 | 36 | 36 | 0 | 0 |
| 169 | St. Louis U. | 35 | 34 | 33 | 1 | 1 |
| 170 | U. MT | 35 | 32 | 32 | 0 | 3 |
| 171 | SUNY, Upstate Medical U. | 34 | 19 | 19 | 0 | 15 |
| 172 | East Carolina U. | 33 | 32 | 32 | 0 | 1 |
| 173 | Creighton U. | 32 | 22 | 22 | 0 | 10 |
| 174 | Old Dominion U. | 32 | 30 | 20 | 10 | 2 |
| 175 | Portland State U. | 32 | 32 | 25 | 7 | 0 |
| 176 | C. of William and Mary | 31 | 31 | 31 | 0 | 0 |
| 177 | U. AR for Medical Sciences | 31 | 31 | 31 | 0 | 0 |
| 178 | UT State U. | 31 | 31 | 24 | 7 | 0 |
| 179 | Miami U. | 30 | 30 | 30 | 0 | 0 |
| 180 | NY Medical C. | 29 | 29 | 29 | 0 | 0 |
| 181 | George Mason U. | 28 | 28 | 26 | 2 | 0 |
| 182 | MO U. of Science and Technology | 28 | 28 | 3 | 25 | 0 |
| 183 | U. NC, Charlotte | 28 | 28 | 22 | 6 | 0 |
| 184 | Bowling Green State U. | 27 | 26 | 26 | 0 | 1 |
| 185 | Jackson State U. | 27 | 27 | 25 | 2 | 0 |
| 186 | U. South AL | 27 | 13 | 13 | 0 | 14 |
| 187 | U. MA, Lowell | 26 | 24 | 19 | 5 | 2 |
| 188 | NC Agricultural and Technical State U. | 25 | 25 | 14 | 11 | 0 |
| 189 | Southern Methodist U. | 25 | 25 | 23 | 2 | 0 |
| 190 | U. ME | 25 | 25 | 19 | 6 | 0 |
| 191 | CUNY, Graduate Ctr. | 24 | 24 | 24 | 0 | 0 |
| 192 | SUNY, Downstate Medical Ctr. | 23 | 23 | 21 | 2 | 0 |
| 193 | U. NV, Las Vegas | 23 | 23 | 22 | 1 | 0 |
| 194 | U. PR, Medical Sciences Campus | 23 | 11 | 11 | 0 | 12 |
| 195 | Kent State U. | 22 | 22 | 22 | 0 | 0 |
| 196 | Worcester Polytechnic Institute | 22 | 22 | 11 | 11 | 0 |
| 197 | Oakland U. | 21 | 21 | 15 | 6 | 0 |
| 198 | SUNY, Binghamton U. | 21 | 21 | 17 | 4 | 0 |
| 199 | U. Memphis | 21 | 21 | 18 | 3 | 0 |
| 200 | U. Southern MS | 21 | 21 | 21 | 0 | 0 |
| 201 | Loma Linda U. | 20 | 6 | 6 | 0 | 14 |
| 202 | Marquette U. | 20 | 19 | 17 | 2 | 1 |
| 203 | OH U. | 20 | 16 | 10 | 6 | 4 |
| 204 | Stevens Institute of Technology | 20 | 20 | 6 | 14 | 0 |
| 205 | Brigham Young U. | 19 | 19 | 18 | 1 | 0 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 206 | Clarkson U. | 19 | 19 | 9 | 10 | 0 |
| 207 | Eastern VA Medical School | 19 | 14 | 14 | 0 | 5 |
| 208 | U. TX, El Paso | 19 | 17 | 15 | 2 | 2 |
| 209 | CUNY, Brooklyn C. | 18 | 18 | 18 | 0 | 0 |
| 210 | MI Technological U. | 18 | 18 | 11 | 7 | 0 |
| 211 | NJ Institute of Technology | 18 | 18 | 7 | 11 | 0 |
| 212 | U. AL, Huntsville | 18 | 18 | 17 | 1 | 0 |
| 213 | Howard U. | 17 | 15 | 15 | 0 | 2 |
| 214 | Rochester Institute of Technology | 17 | 17 | 15 | 2 | 0 |
| 215 | Rosalind Franklin U. of Medicine and Science | 17 | 13 | 13 | 0 | 4 |
| 216 | Wright State U. | 17 | 17 | 13 | 4 | 0 |
| 217 | FL A&M U. | 16 | 3 | 3 | 0 | 13 |
| 218 | San Francisco State U. | 16 | 16 | 16 | 0 | 0 |
| 219 | U. LA, Lafayette | 16 | 12 | 4 | 8 | 4 |
| 220 | AL State U. | 15 | 15 | 15 | 0 | 0 |
| 221 | CUNY, Hunter C. | 15 | 15 | 15 | 0 | 0 |
| 222 | ID State U. | 15 | 13 | 10 | 3 | 2 |
| 223 | Morehouse School of Medicine | 15 | 15 | 15 | 0 | 0 |
| 224 | U. MO, St. Louis | 15 | 15 | 15 | 0 | 0 |
| 225 | Baylor U. | 14 | 14 | 14 | 0 | 0 |
| 226 | NM State U. | 14 | 14 | 12 | 2 | 0 |
| 227 | Northeastern OH Universities, C. of Medicine | 14 | 13 | 13 | 0 | 1 |
| 228 | Wesleyan U. | 14 | 14 | 14 | 0 | 0 |
| 229 | AR State U. | 13 | 13 | 13 | 0 | 0 |
| 230 | Northern AZ U. | 13 | 13 | 13 | 0 | 0 |
| 231 | U. MA, Dartmouth | 13 | 13 | 11 | 2 | 0 |
| 232 | U. SD | 13 | 13 | 13 | 0 | 0 |
| 233 | U. Tulsa | 13 | 13 | 2 | 11 | 0 |
| 234 | Boise State U. | 12 | 11 | 7 | 4 | 1 |
| 235 | Polytechnic Institute of NY U. | 12 | 12 | 5 | 7 | 0 |
| 236 | SD School of Mines and Technology | 12 | 12 | 2 | 10 | 0 |
| 237 | U. Denver | 12 | 12 | 12 | 0 | 0 |
| 238 | U. ND | 12 | 12 | 11 | 1 | 0 |
| 239 | U. WI, Milwaukee | 12 | 11 | 5 | 6 | 1 |
| 240 | Clark Atlanta U. | 11 | 11 | 11 | 0 | 0 |
| 241 | Cleveland State U. | 11 | 11 | 11 | 0 | 0 |
| 242 | CUNY, C. Staten Island | 11 | 11 | 11 | 0 | 0 |
| 243 | CUNY, Queens C. | 11 | 11 | 11 | 0 | 0 |
| 244 | FL Institute of Technology | 11 | 11 | 9 | 2 | 0 |
| 245 | Gallaudet U. | 11 | 11 | 11 | 0 | 0 |
| 246 | U. NC, Greensboro | 11 | 11 | 11 | 0 | 0 |
| 247 | Villanova U. | 11 | 11 | 2 | 9 | 0 |
| 248 | Western MI U. | 11 | 10 | 8 | 2 | 1 |
| 249 | Duquesne U. | 10 | 6 | 6 | 0 | 4 |
| 250 | Southern IL U., Carbondale | 10 | 10 | 10 | 0 | 0 |
| 251 | U. NC, Wilmington | 10 | 10 | 10 | 0 | 0 |
| 252 | Catholic U. America | 9 | 9 | 9 | 0 | 0 |
| 253 | East TN State U. | 9 | 9 | 9 | 0 | 0 |
| 254 | FL Atlantic U. | 9 | 9 | 5 | 4 | 0 |
| 255 | TX State U., San Marcos | 9 | 9 | 9 | 0 | 0 |
| 256 | U. AR, Little Rock | 9 | 9 | 9 | 0 | 0 |
| 257 | Clark U. | 8 | 8 | 8 | 0 | 0 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 258 | Mercer U. | 8 | 8 | 8 | 0 | 0 |
| 259 | SUNY, C. of Optometry | 8 | 8 | 8 | 0 | 0 |
| 260 | TX Christian U. | 8 | 8 | 8 | 0 | 0 |
| 261 | U. Dayton | 8 | 8 | 4 | 4 | 0 |
| 262 | LA Tech U. | 7 | 7 | 5 | 2 | 0 |
| 263 | Morgan State U. | 7 | 0 | 0 | 0 | 7 |
| 264 | U. of the Sciences Philadelphia | 7 | 4 | 4 | 0 | 3 |
| 265 | CA State U., Los Angeles | 6 | 6 | 6 | 0 | 0 |
| 266 | Central MI U. | 6 | 6 | 5 | 1 | 0 |
| 267 | DE State U. | 6 | 6 | 6 | 0 | 0 |
| 268 | IL State U. | 6 | 6 | 6 | 0 | 0 |
| 269 | Lincoln U., Jefferson City | 6 | 6 | 6 | 0 | 0 |
| 270 | Marshall U. | 6 | 6 | 6 | 0 | 0 |
| 271 | Northern IL U. | 6 | 6 | 6 | 0 | 0 |
| 272 | Southern U. and A&M C. | 6 | 6 | 6 | 0 | 0 |
| 273 | SUNY, C. of Environmental Science and Forestry | 6 | 6 | 5 | 1 | 0 |
| 274 | U. NE, Omaha | 6 | 2 | 2 | 0 | 4 |
| 275 | U. TX, Pan American | 6 | 6 | 3 | 3 | 0 |
| 276 | Hampton U. | 5 | 5 | 5 | 0 | 0 |
| 277 | TX A&M U., Corpus Christi | 5 | 5 | 5 | 0 | 0 |
| 278 | U. AK, Anchorage | 5 | 4 | 4 | 0 | 1 |
| 279 | Wichita State U. | 5 | 5 | 1 | 4 | 0 |
| 280 | Fisk U. | 4 | 4 | 4 | 0 | 0 |
| 281 | Fordham U. | 4 | 4 | 4 | 0 | 0 |
| 282 | Midwestern U. | 4 | 1 | 1 | 0 | 3 |
| 283 | Montclair State U. | 4 | 4 | 4 | 0 | 0 |
| 284 | Mt. Holyoke C. | 4 | 4 | 4 | 0 | 0 |
| 285 | Sam Houston State U. | 4 | 4 | 4 | 0 | 0 |
| 286 | TN Technological U. | 4 | 4 | 0 | 4 | 0 |
| 287 | TX A&M U., Commerce | 4 | 4 | 4 | 0 | 0 |
| 288 | TX Southern U. | 4 | 3 | 3 | 0 | 1 |
| 289 | Trinity C., Hartford | 4 | 4 | 4 | 0 | 0 |
| 290 | U. PR, Mayaguez | 4 | 4 | 2 | 2 | 0 |
| 291 | Furman U. | 3 | 3 | 3 | 0 | 0 |
| 292 | NM Institute of Mining and Technology | 3 | 3 | 1 | 2 | 0 |
| 293 | Nova Southeastern U. | 3 | 3 | 3 | 0 | 0 |
| 294 | Seton Hall U. | 3 | 3 | 3 | 0 | 0 |
| 295 | U. of the Pacific | 3 | 0 | 0 | 0 | 3 |
| 296 | A. T. Still U. | 2 | 1 | 1 | 0 | 1 |
| 297 | Alfred U. | 2 | 2 | 0 | 2 | 0 |
| 298 | Bryn Mawr C. | 2 | 2 | 2 | 0 | 0 |
| 299 | Hofstra U. | 2 | 2 | 2 | 0 | 0 |
| 300 | Lawrence Technological U. | 2 | 2 | 0 | 2 | 0 |
| 301 | Prairie View A&M U. | 2 | 2 | 1 | 1 | 0 |
| 302 | Sacred Heart U. | 2 | 0 | 0 | 0 | 2 |
| 303 | Swarthmore C. | 2 | 2 | 2 | 0 | 0 |
| 304 | U. San Diego | 2 | 2 | 2 | 0 | 0 |
| 305 | Western WA U. | 2 | 2 | 2 | 0 | 0 |
| 306 | Youngstown State U. | 2 | 2 | 1 | 1 | 0 |
| 307 | AL A&M U. | 1 | 1 | 1 | 0 | 0 |
| 308 | CA State U., Fresno | 1 | 1 | 1 | 0 | 0 |
| 309 | Eastern NM U. | 1 | 1 | 1 | 0 | 0 |
| 310 | IN State U. | 1 | 1 | 1 | 0 | 0 |

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

| Rank | Institution | All postdoctoral appointees | Science and engineering | | | Health |
|---|---|---|---|---|---|---|
| | | | Total | Science | Engineering | |
| 311 | Loyola Marymount U. | 1 | 1 | 0 | 1 | 0 |
| 312 | Ponce School of Medicine | 1 | 1 | 1 | 0 | 0 |
| 313 | Santa Clara U. | 1 | 1 | 0 | 1 | 0 |
| 314 | MO State U. | 1 | 1 | 0 | 1 | 0 |
| 315 | St. Joseph's U. | 1 | 1 | 1 | 0 | 0 |
| 316 | Universidad Central del Caribe | 1 | 1 | 1 | 0 | 0 |
| 317 | U. AK, Southeast | 1 | 1 | 1 | 0 | 0 |
| 318 | U. Northern IA | 1 | 1 | 1 | 0 | 0 |
| 319 | U. TX, Permian Basin | 1 | 1 | 1 | 0 | 0 |
| 320 | U. TX, Tyler | 1 | 1 | 0 | 1 | 0 |
| 321 | Valparaiso U. | 1 | 1 | 1 | 0 | 0 |
| 322 | West Chester U. PA | 1 | 1 | 1 | 0 | 0 |
| 323 | William Paterson U. | 1 | 1 | 1 | 0 | 0 |
| 324 | Williams C. | 1 | 1 | 1 | 0 | 0 |

[a] Totals for "all institutions" include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: Tied institutions are ranked alphabetically. In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

| Field | Total | U.S. citizens and permanent residents | | | | Temporary visa holders | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] |
| All surveyed fields | 63,415 | 17,430 | 2,481 | 481 | 9,377 | 22,296 | 1,908 | 805 | 8,637 |
| Science and engineering | 44,051 | 12,948 | 495 | 156 | 6,820 | 16,974 | 545 | 312 | 5,801 |
| Science | 37,095 | 11,539 | 470 | 148 | 5,604 | 13,995 | 517 | 296 | 4,526 |
| Agricultural sciences | 1,195 | 399 | 7 | 1 | 204 | 425 | 7 | 3 | 149 |
| Biological sciences | 21,537 | 6,906 | 418 | 123 | 2,741 | 8,074 | 458 | 260 | 2,557 |
| Anatomy | 437 | 120 | 17 | 3 | 107 | 97 | 7 | 7 | 79 |
| Biochemistry | 2,533 | 821 | 9 | 4 | 330 | 965 | 17 | 20 | 367 |
| Biology | 2,555 | 969 | 14 | 4 | 330 | 1,004 | 6 | 3 | 225 |
| Biometry/epidemiology | 466 | 139 | 18 | 4 | 72 | 166 | 9 | 5 | 53 |
| Biophysics | 240 | 57 | 0 | 0 | 48 | 84 | 0 | 1 | 50 |
| Botany | 603 | 172 | 3 | 0 | 111 | 207 | 3 | 0 | 107 |
| Cell biology | 2,796 | 732 | 14 | 14 | 462 | 1,153 | 19 | 58 | 344 |
| Ecology | 238 | 93 | 1 | 1 | 63 | 46 | 0 | 0 | 34 |
| Entomology/parasitology | 233 | 88 | 1 | 1 | 40 | 68 | 1 | 0 | 34 |
| Genetics | 1,389 | 459 | 21 | 31 | 177 | 452 | 24 | 29 | 196 |
| Microbiology/immunology/virology | 2,374 | 794 | 44 | 15 | 281 | 875 | 44 | 22 | 299 |
| Nutrition | 219 | 77 | 7 | 0 | 28 | 70 | 4 | 1 | 32 |
| Pathology | 1,797 | 427 | 97 | 12 | 214 | 697 | 92 | 26 | 232 |
| Pharmacology | 1,656 | 479 | 28 | 12 | 209 | 616 | 34 | 36 | 242 |
| Physiology | 1,448 | 512 | 30 | 12 | 131 | 525 | 43 | 28 | 167 |
| Zoology | 76 | 42 | 0 | 0 | 19 | 11 | 0 | 0 | 4 |
| Biological sciences, nec | 2,477 | 925 | 114 | 10 | 119 | 1,038 | 155 | 24 | 92 |
| Communication[b] | 60 | 25 | 0 | 0 | 12 | 13 | 3 | 0 | 7 |
| Computer sciences | 748 | 197 | 3 | 1 | 112 | 315 | 3 | 0 | 117 |
| Earth, atmospheric, and ocean sciences | 1,760 | 527 | 8 | 0 | 416 | 618 | 5 | 2 | 184 |
| Atmospheric sciences | 184 | 47 | 0 | 0 | 29 | 97 | 0 | 2 | 9 |
| Geosciences | 601 | 195 | 4 | 0 | 80 | 239 | 1 | 0 | 82 |
| Oceanography | 332 | 165 | 1 | 0 | 26 | 130 | 0 | 0 | 10 |
| Earth/atmospheric/ocean sciences, nec | 643 | 120 | 3 | 0 | 281 | 152 | 4 | 0 | 83 |
| Family and consumer sciences/ human sciences[b] | 30 | 14 | 0 | 0 | 8 | 5 | 0 | 0 | 3 |
| Mathematical sciences | 756 | 276 | 1 | 1 | 113 | 270 | 2 | 0 | 93 |
| Mathematics/applied mathematics | 680 | 258 | 1 | 1 | 98 | 243 | 2 | 0 | 77 |
| Statistics | 76 | 18 | 0 | 0 | 15 | 27 | 0 | 0 | 16 |
| Multidisciplinary/interdisciplinary studies[b] | 765 | 132 | 9 | 1 | 308 | 180 | 10 | 0 | 125 |
| Neuroscience[b] | 818 | 246 | 5 | 14 | 125 | 266 | 12 | 26 | 124 |
| Physical sciences | 7,703 | 1,922 | 9 | 2 | 1,265 | 3,413 | 12 | 2 | 1,078 |
| Astronomy | 532 | 154 | 2 | 0 | 119 | 206 | 0 | 0 | 51 |
| Chemistry | 4,241 | 1,006 | 4 | 1 | 671 | 1,902 | 10 | 2 | 645 |
| Physics | 2,628 | 735 | 3 | 1 | 368 | 1,244 | 2 | 0 | 275 |
| Physical sciences, nec | 302 | 27 | 0 | 0 | 107 | 61 | 0 | 0 | 107 |
| Psychology | 1,077 | 598 | 6 | 2 | 159 | 273 | 4 | 2 | 33 |
| Clinical psychology | 123 | 88 | 2 | 0 | 24 | 8 | 1 | 0 | 0 |
| Psychology, general | 634 | 316 | 2 | 1 | 115 | 170 | 0 | 2 | 28 |
| Psychology, nec | 320 | 194 | 2 | 1 | 20 | 95 | 3 | 0 | 5 |
| Social sciences | 646 | 297 | 4 | 3 | 141 | 143 | 1 | 1 | 56 |
| Agricultural economics | 44 | 13 | 1 | 0 | 10 | 17 | 0 | 0 | 3 |
| Anthropology (cultural/social) | 83 | 46 | 1 | 0 | 18 | 13 | 0 | 0 | 5 |

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

| Field | Total | U.S. citizens and permanent residents | | | | Temporary visa holders | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] |
| Economics (except agricultural) | 47 | 10 | 0 | 0 | 14 | 10 | 0 | 0 | 13 |
| Geography | 62 | 29 | 0 | 0 | 17 | 14 | 0 | 1 | 1 |
| History and philosophy of science | 13 | 4 | 0 | 1 | 2 | 4 | 0 | 0 | 2 |
| Linguistics | 27 | 14 | 0 | 0 | 0 | 7 | 0 | 0 | 6 |
| Political science | 85 | 43 | 0 | 0 | 23 | 14 | 0 | 0 | 5 |
| Sociology | 81 | 44 | 1 | 0 | 20 | 11 | 0 | 0 | 5 |
| Sociology/anthropology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 94 | 1 | 2 | 37 | 53 | 1 | 0 | 16 |
| Engineering | 6,956 | 1,409 | 25 | 8 | 1,216 | 2,979 | 28 | 16 | 1,275 |
| Aerospace engineering | 191 | 34 | 0 | 0 | 35 | 95 | 0 | 0 | 27 |
| Agricultural engineering | 119 | 28 | 3 | 0 | 6 | 62 | 0 | 0 | 20 |
| Architecture[b] | 10 | 2 | 0 | 0 | 3 | 5 | 0 | 0 | 0 |
| Biomedical engineering | 1,036 | 238 | 6 | 0 | 255 | 343 | 3 | 5 | 186 |
| Chemical engineering | 1,092 | 222 | 2 | 0 | 230 | 453 | 2 | 0 | 183 |
| Civil engineering[b] | 570 | 117 | 1 | 0 | 126 | 243 | 3 | 0 | 80 |
| Electrical engineering | 1,097 | 191 | 9 | 4 | 120 | 490 | 12 | 5 | 266 |
| Engineering science | 243 | 85 | 0 | 0 | 9 | 137 | 0 | 0 | 12 |
| Industrial engineering | 163 | 19 | 0 | 0 | 59 | 46 | 0 | 0 | 39 |
| Mechanical engineering | 1,009 | 191 | 2 | 2 | 167 | 468 | 7 | 4 | 168 |
| Metallurgical/materials engineering | 835 | 163 | 1 | 0 | 121 | 395 | 1 | 0 | 154 |
| Mining engineering | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| Nuclear engineering | 107 | 19 | 0 | 0 | 36 | 29 | 0 | 0 | 23 |
| Petroleum engineering | 46 | 10 | 0 | 2 | 0 | 31 | 0 | 0 | 3 |
| Engineering, nec | 432 | 89 | 1 | 0 | 49 | 181 | 0 | 2 | 110 |
| Health | 19,364 | 4,482 | 1,986 | 325 | 2,557 | 5,322 | 1,363 | 493 | 2,836 |
| Clinical medicine | 16,610 | 3,675 | 1,821 | 307 | 2,155 | 4,480 | 1,278 | 455 | 2,439 |
| Anesthesiology | 477 | 71 | 41 | 2 | 108 | 93 | 67 | 17 | 78 |
| Cardiology | 700 | 113 | 93 | 22 | 64 | 152 | 79 | 36 | 141 |
| Endocrinology | 457 | 88 | 52 | 10 | 35 | 144 | 39 | 32 | 57 |
| Gastroenterology | 320 | 36 | 56 | 5 | 50 | 75 | 24 | 9 | 65 |
| Hematology | 352 | 79 | 35 | 17 | 30 | 123 | 23 | 6 | 39 |
| Neurology[b] | 1,328 | 349 | 75 | 24 | 147 | 432 | 62 | 24 | 215 |
| Obstetrics/gynecology | 333 | 56 | 53 | 7 | 44 | 98 | 13 | 10 | 52 |
| Oncology/cancer research | 1,903 | 550 | 81 | 55 | 126 | 786 | 83 | 48 | 174 |
| Ophthalmology | 523 | 81 | 29 | 10 | 87 | 138 | 51 | 15 | 112 |
| Otorhinolaryngology | 140 | 36 | 9 | 3 | 19 | 42 | 14 | 8 | 9 |
| Pediatrics | 1,209 | 282 | 258 | 23 | 117 | 364 | 49 | 21 | 95 |
| Preventive medicine/community health | 580 | 196 | 43 | 5 | 145 | 139 | 9 | 3 | 40 |
| Psychiatry | 1,066 | 410 | 78 | 11 | 259 | 157 | 25 | 8 | 118 |
| Pulmonary disease | 287 | 49 | 74 | 5 | 49 | 40 | 17 | 8 | 45 |
| Radiology | 1,034 | 262 | 62 | 6 | 108 | 346 | 75 | 9 | 166 |
| Surgery | 1,257 | 179 | 200 | 6 | 170 | 276 | 198 | 38 | 190 |
| Clinical medicine, nec | 4,644 | 838 | 582 | 96 | 597 | 1,075 | 450 | 163 | 843 |
| Other health | 2,754 | 807 | 165 | 18 | 402 | 842 | 85 | 38 | 397 |
| Dental sciences | 358 | 73 | 45 | 7 | 28 | 118 | 36 | 22 | 29 |
| Nursing | 55 | 38 | 2 | 0 | 11 | 4 | 0 | 0 | 0 |
| Pharmaceutical sciences | 1,102 | 353 | 26 | 1 | 134 | 403 | 10 | 3 | 172 |

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

| Field | Total | U.S. citizens and permanent residents | | | | Temporary visa holders | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] | Doctoral degree[a] | Professional degree[a] | Dual degree[a] | Doctoral degree type unknown/not reported[a] |
| Speech pathology/audiology | 54 | 15 | 0 | 0 | 23 | 7 | 2 | 0 | 7 |
| Veterinary sciences | 464 | 125 | 54 | 5 | 104 | 106 | 12 | 9 | 49 |
| Other health, nec | 721 | 203 | 38 | 5 | 102 | 204 | 25 | 4 | 140 |

nec = not elsewhere classified.

[a] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).
[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Doctoral degree type for postdocs was collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

| Field | Total | United States[a] | Foreign country | Degree origin unknown/ not reported |
|---|---|---|---|---|
| All surveyed fields | 63,415 | 19,974 | 16,588 | 26,853 |
| Science and engineering | 44,051 | 14,099 | 11,293 | 18,659 |
| Science | 37,095 | 11,897 | 9,856 | 15,342 |
| Agricultural sciences | 1,195 | 407 | 235 | 553 |
| Biological sciences | 21,537 | 6,442 | 6,075 | 9,020 |
| Anatomy | 437 | 92 | 102 | 243 |
| Biochemistry | 2,533 | 727 | 643 | 1,163 |
| Biology | 2,555 | 1,094 | 712 | 749 |
| Biometry/epidemiology | 466 | 209 | 89 | 168 |
| Biophysics | 240 | 43 | 41 | 156 |
| Botany | 603 | 104 | 101 | 398 |
| Cell biology | 2,796 | 780 | 801 | 1,215 |
| Ecology | 238 | 80 | 25 | 133 |
| Entomology/parasitology | 233 | 70 | 42 | 121 |
| Genetics | 1,389 | 368 | 441 | 580 |
| Microbiology/immunology/virology | 2,374 | 754 | 739 | 881 |
| Nutrition | 219 | 86 | 49 | 84 |
| Pathology | 1,797 | 443 | 516 | 838 |
| Pharmacology | 1,656 | 480 | 496 | 680 |
| Physiology | 1,448 | 496 | 488 | 464 |
| Zoology | 76 | 19 | 20 | 37 |
| Biological sciences, nec | 2,477 | 597 | 770 | 1,110 |
| Communication[b] | 60 | 30 | 8 | 22 |
| Computer sciences | 748 | 286 | 171 | 291 |
| Earth, atmospheric, and ocean sciences | 1,760 | 624 | 402 | 734 |
| Atmospheric sciences | 184 | 75 | 60 | 49 |
| Geosciences | 601 | 235 | 150 | 216 |
| Oceanography | 332 | 162 | 92 | 78 |
| Earth/atmospheric/ocean sciences, nec | 643 | 152 | 100 | 391 |
| Family and consumer sciences/human sciences[b] | 30 | 10 | 1 | 19 |
| Mathematical sciences | 756 | 368 | 135 | 253 |
| Mathematics/applied mathematics | 680 | 341 | 125 | 214 |
| Statistics | 76 | 27 | 10 | 39 |
| Multidisciplinary/interdisciplinary studies[b] | 765 | 176 | 99 | 490 |
| Neuroscience[b] | 818 | 243 | 236 | 339 |
| Physical sciences | 7,703 | 2,378 | 2,205 | 3,120 |
| Astronomy | 532 | 210 | 145 | 177 |
| Chemistry | 4,241 | 1,175 | 1,294 | 1,772 |
| Physics | 2,628 | 943 | 738 | 947 |
| Physical sciences, nec | 302 | 50 | 28 | 224 |
| Psychology | 1,077 | 630 | 201 | 246 |
| Clinical psychology | 123 | 89 | 5 | 29 |
| Psychology, general | 634 | 349 | 115 | 170 |
| Psychology, nec | 320 | 192 | 81 | 47 |
| Social sciences | 646 | 303 | 88 | 255 |
| Agricultural economics | 44 | 20 | 2 | 22 |
| Anthropology (cultural/social) | 83 | 40 | 6 | 37 |
| Economics (except agricultural) | 47 | 12 | 6 | 29 |
| Geography | 62 | 28 | 6 | 28 |
| History and philosophy of science | 13 | 5 | 4 | 4 |
| Linguistics | 27 | 13 | 5 | 9 |

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

| Field | Total | United States[a] | Foreign country | Degree origin unknown/ not reported |
|---|---|---|---|---|
| Political science | 85 | 43 | 8 | 34 |
| Sociology | 81 | 48 | 7 | 26 |
| Sociology/anthropology | 0 | 0 | 0 | 0 |
| Social sciences, nec | 204 | 94 | 44 | 66 |
| Engineering | 6,956 | 2,202 | 1,437 | 3,317 |
| Aerospace engineering | 191 | 81 | 40 | 70 |
| Agricultural engineering | 119 | 38 | 33 | 48 |
| Architecture[b] | 10 | 2 | 4 | 4 |
| Biomedical engineering | 1,036 | 321 | 188 | 527 |
| Chemical engineering | 1,092 | 341 | 217 | 534 |
| Civil engineering[b] | 570 | 215 | 102 | 253 |
| Electrical engineering | 1,097 | 346 | 229 | 522 |
| Engineering science | 243 | 123 | 85 | 35 |
| Industrial engineering | 163 | 42 | 16 | 105 |
| Mechanical engineering | 1,009 | 301 | 234 | 474 |
| Metallurgical/materials engineering | 835 | 246 | 185 | 404 |
| Mining engineering | 6 | 2 | 0 | 4 |
| Nuclear engineering | 107 | 19 | 21 | 67 |
| Petroleum engineering | 46 | 19 | 22 | 5 |
| Engineering, nec | 432 | 106 | 61 | 265 |
| Health | 19,364 | 5,875 | 5,295 | 8,194 |
| Clinical medicine | 16,610 | 5,139 | 4,690 | 6,781 |
| Anesthesiology | 477 | 96 | 102 | 279 |
| Cardiology | 700 | 187 | 265 | 248 |
| Endocrinology | 457 | 152 | 212 | 93 |
| Gastroenterology | 320 | 88 | 110 | 122 |
| Hematology | 352 | 101 | 96 | 155 |
| Neurology[b] | 1,328 | 398 | 372 | 558 |
| Obstetrics/gynecology | 333 | 97 | 96 | 140 |
| Oncology/cancer research | 1,903 | 640 | 631 | 632 |
| Ophthalmology | 523 | 109 | 166 | 248 |
| Otorhinolaryngology | 140 | 56 | 58 | 26 |
| Pediatrics | 1,209 | 525 | 343 | 341 |
| Preventive medicine/community health | 580 | 234 | 107 | 239 |
| Psychiatry | 1,066 | 430 | 140 | 496 |
| Pulmonary disease | 287 | 125 | 84 | 78 |
| Radiology | 1,034 | 259 | 299 | 476 |
| Surgery | 1,257 | 283 | 406 | 568 |
| Clinical medicine, nec | 4,644 | 1,359 | 1,203 | 2,082 |
| Other health | 2,754 | 736 | 605 | 1,413 |
| Dental sciences | 358 | 85 | 104 | 169 |
| Nursing | 55 | 33 | 2 | 20 |
| Pharmaceutical sciences | 1,102 | 240 | 243 | 619 |

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

| Field | Total | United States[a] | Foreign country | Degree origin unknown/ not reported |
|---|---|---|---|---|
| Speech pathology/audiology | 54 | 17 | 6 | 31 |
| Veterinary sciences | 464 | 118 | 95 | 251 |
| Other health, nec | 721 | 243 | 155 | 323 |

nec = not elsewhere classified.

[a] United States includes Puerto Rico and U.S. territories.
[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Origin of doctoral degree for postdocs was collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 49. Postdoctoral appointees in science, engineering, and health in all institutions, by type of doctoral degree, primary mechanism of support, and field: 2010

| Type of doctoral degree and primary mechanism of support[a] | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical medicine[b] | Other health |
| All degree types[a] | 63,415 | 44,051 | 37,095 | 6,956 | 19,364 | 16,610 | 2,754 |
| Fellowships | 5,803 | 3,646 | 3,280 | 366 | 2,157 | 1,894 | 263 |
| Research grants | 35,644 | 27,054 | 22,416 | 4,638 | 8,590 | 7,233 | 1,357 |
| Traineeships | 4,133 | 2,062 | 2,002 | 60 | 2,071 | 1,726 | 345 |
| Other support | 9,036 | 5,696 | 4,946 | 750 | 3,340 | 3,019 | 321 |
| Not reported | 8,799 | 5,593 | 4,451 | 1,142 | 3,206 | 2,738 | 468 |
| Doctoral degree[a] | 39,804 | 29,990 | 25,588 | 4,402 | 9,814 | 8,165 | 1,649 |
| Fellowships | 3,812 | 2,696 | 2,459 | 237 | 1,116 | 926 | 190 |
| Research grants | 26,855 | 21,049 | 17,554 | 3,495 | 5,806 | 4,789 | 1,017 |
| Traineeships | 2,825 | 1,639 | 1,595 | 44 | 1,186 | 953 | 233 |
| Other support | 6,108 | 4,408 | 3,824 | 584 | 1,700 | 1,495 | 205 |
| Not reported | 204 | 198 | 156 | 42 | 6 | 2 | 4 |
| Professional degree[a] | 4,395 | 1,041 | 988 | 53 | 3,354 | 3,104 | 250 |
| Fellowships | 864 | 88 | 87 | 1 | 776 | 734 | 42 |
| Research grants | 1,685 | 581 | 545 | 36 | 1,104 | 1,024 | 80 |
| Traineeships | 755 | 188 | 186 | 2 | 567 | 493 | 74 |
| Other support | 1,073 | 166 | 153 | 13 | 907 | 853 | 54 |
| Not reported | 18 | 18 | 17 | 1 | 0 | 0 | 0 |
| Dual degree[a] | 1,289 | 468 | 444 | 24 | 821 | 765 | 56 |
| Fellowships | 197 | 76 | 73 | 3 | 121 | 116 | 5 |
| Research grants | 742 | 304 | 284 | 20 | 438 | 392 | 46 |
| Traineeships | 110 | 20 | 20 | 0 | 90 | 88 | 2 |
| Other support | 239 | 67 | 66 | 1 | 172 | 169 | 3 |
| Not reported | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| Doctoral degree type unknown/ not reported[a] | 17,927 | 12,552 | 10,075 | 2,477 | 5,375 | 4,576 | 799 |
| Fellowships | 930 | 786 | 661 | 125 | 144 | 118 | 26 |
| Research grants | 6,362 | 5,120 | 4,033 | 1,087 | 1,242 | 1,028 | 214 |
| Traineeships | 443 | 215 | 201 | 14 | 228 | 192 | 36 |
| Other support | 1,616 | 1,055 | 903 | 152 | 561 | 502 | 59 |
| Not reported | 8,576 | 5,376 | 4,277 | 1,099 | 3,200 | 2,736 | 464 |

[a] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).
[b] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

NOTES: In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail. Doctoral degree type and details on primary mechanism of support for postdocs were collected for first time in 2010, and any missing data in these items were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 50. Postdoctoral appointees in science, engineering, and health, by citizenship, ethnicity, and race of U.S. citizens and permanent residents, origin of doctoral degree, and field: 2010

| Characteristic | All science, engineering, and health | Science and engineering | | | Health | | |
|---|---|---|---|---|---|---|---|
| | | Total | Science | Engineering | Total | Clinical | Other health |
| Total | 63,415 | 44,051 | 37,095 | 6,956 | 19,364 | 16,610 | 2,754 |
| U.S. citizens and permanent residents | 29,769 | 20,419 | 17,761 | 2,658 | 9,350 | 7,958 | 1,392 |
| Hispanic or Latino | 1,160 | 763 | 700 | 63 | 397 | 317 | 80 |
| Not Hispanic or Latino | | | | | | | |
| American Indian or Alaska Native | 93 | 59 | 55 | 4 | 34 | 25 | 9 |
| Asian[b] | 5,174 | 3,371 | 2,784 | 587 | 1,803 | 1,540 | 263 |
| Black or African American | 898 | 529 | 465 | 64 | 369 | 319 | 50 |
| Native Hawaiian or Other Pacific Islander[b] | 92 | 51 | 44 | 7 | 41 | 38 | 3 |
| White | 15,689 | 11,084 | 9,906 | 1,178 | 4,605 | 3,841 | 764 |
| More than one race[b] | 140 | 79 | 68 | 11 | 61 | 58 | 3 |
| Unknown ethnicity/race | 6,523 | 4,483 | 3,739 | 744 | 2,040 | 1,820 | 220 |
| Temporary visa holders | 33,646 | 23,632 | 19,334 | 4,298 | 10,014 | 8,652 | 1,362 |
| Origin of doctoral degree[c] | | | | | | | |
| United States[d] | 19,974 | 14,099 | 11,897 | 2,202 | 5,875 | 5,139 | 736 |
| Foreign country | 16,588 | 11,293 | 9,856 | 1,437 | 5,295 | 4,690 | 605 |
| Unknown degree origin | 26,853 | 18,659 | 15,342 | 3,317 | 8,194 | 6,781 | 1,413 |

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.
[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."
[c] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).
[d] United States includes Puerto Rico and U.S. territories.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Origin of doctoral degree, and ethnicity and race for postdocs were collected for first time in 2010, and any missing data in these items were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

# Appendix A. Technical Notes

## Survey Universe

The Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) is an annual census of all known U.S. academic institutions that grant master's degrees or research doctorates in science and engineering (S&E) fields or selected health fields.[1] The data collected in the 2010 GSS represent national estimates of graduate student enrollment and postdoctoral (postdoc) employment as of fall 2010.

In 2010 the survey universe consisted of 692 schools at 574 academic institutions: 481 schools at 364 doctorate-granting institutions, and 211 schools at 210 master's-granting institutions.[2] Data collected at the organizational unit level (e.g., departments, degree-granting programs, research centers, health facilities) included fields of study, and demographic and funding information for graduate students; fields of study, type of degree, demographic, and funding information for postdocs; and type of degree, and sex for other doctorate-holding nonfaculty researchers (NFRs). The 2010 survey was revised to collect postdoc data at a comparable level of detail as for the graduate student data.

Table A-1 shows the number of institutions, schools, and organizational units (e.g., departments, degree-granting programs), by degree level covered by the GSS, and shows estimated total annual enrollment in GSS-eligible fields between 1966 and 2010. Tables A-2 and A-3 show the number of units surveyed, by detailed field, in doctorate-granting and master's-granting institutions, respectively.

### *Revisions Affecting Survey Eligibility*

No revisions affected the survey universe in 2010; revisions to the eligibility criteria for units and fields of study in 2007 and 2008 are described below.

*Units.* Survey procedures introduced in 2007, per design, appear to have greatly improved inclusion of eligible units and exclusion of ineligible units. In 2010 the number of unit deletions was on par with that of 2009, but the number of unit additions increased by about 40%, potentially due to the increased emphasis on postdoc and NFR data, and the inclusion of nondegree-granting units where these individuals hold positions (table 1). The dramatic increase in the number of units added and deleted in 2007–10 suggests that there was underreporting of GSS-eligible units and overreporting of ineligible units in previous survey years. See the "Technical Notes" section of the 2007 report for more detail on the changes introduced in 2007.

Table 1. Unit list modifications: 2006–10

| | Year | | | | |
|---|---|---|---|---|---|
| Activity | 2006 | 2007 | 2008 | 2009 | 2010 |
| Units at start of data collection | 12,297 | 12,320 | 12,629 | 13,166 | 13,285 |
| Units added | 397 | 1,273 | 1,215 | 744 | 1,039 |
| Units deleted | 374 | 964 | 678 | 625 | 613 |
| Units at end of data collection | 12,320 | 12,629 | 13,166 | 13,285 | 13,711 |
| Net difference | 23 | 309 | 537 | 119 | 426 |

*Fields of study and degree-granting programs*. In 2007 a comprehensive review of GSS-eligible fields led to the following changes: updating the GSS-eligible, degree-granting programs from the 1990 to the 2000 Classification of Instructional Programs (CIP) taxonomy of the National Center for Education Statistics (NCES); representing degree-granting programs with a six-digit CIP specificity rather than the four-digit CIP specificity; eliminating programs that lacked a research focus, adding three new fields, and reclassifying programs and fields as needed. See the Technical Notes section of the 2007 report for more detail.

### *Changes Affecting Survey Comparability*

Because of the adjustments to the taxonomy and other survey changes introduced in 2007, data collected since that year are not directly comparable with data from previous years. For trend analyses, the detailed statistical tables (DSTs) provide estimates of the counts that would have been collected in 2007 had the 2006 methodology been used (see "Bridge Year Calculation and Display").

Survey changes that affect comparability of the data are as follows:

- 2010: The postdoc section of the survey was greatly expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. As a result, it is unclear how much of the increase reported in 2010 represents actual growth in postdocs and how much results from improved data collection. More information on the improved data collection and changes in postdoc data will be released in a forthcoming InfoBrief, which will be available at http://www.nsf.gov /statistics/gradpostdoc/.
- 2007–10: In the 2007 survey cycle, three newly eligible fields were added, some degree-granting programs became ineligible, and others were reclassified. Tables in this report present data for 2007, the bridge year, in two ways. Data collected under the new methodology are shown as "2007new." For trend analysis, an estimate of 2007 data under the 2006 methodology is shown as "2007old."
- 1975–2006: The data are intended to represent consistent coverage of S&E and selected health fields. In 1989 the National Science Foundation (NSF) revised the coverage of S&E fields in the survey. Some fields were excluded, and the data for 1975–88 subsequently were revised to reflect this change.
- 1984–87: Data on master's-granting institutions were collected on a sample basis. Enrollment data for this period have been adjusted to account for the sampling and reflect estimated universe totals. Starting with the 1988 survey cycle, the GSS has attempted to cover all U.S. academic institutions that grant master's or doctoral degrees in S&E or selected health fields.
- 1978: Master's-granting institutions were not surveyed in 1978. Figures for 1978 total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data. Doctorate-granting institutions received a short form of the GSS that collected selected data items; the short form did not request any information on sex, citizenship, or mechanisms of support.
- 1972–74: Eligibility definitions changed, affecting both S&E fields and types of institutions surveyed. These data are not comparable with data collected before 1972 or after 1974.
- 1966–71: Totals are for the NSF Graduate Traineeship program only and are not comparable with data from 1972 through 2009.

## Changes in Eligibility and Degree-Granting Status

Institutions are classified as doctorate granting if at least one GSS-eligible unit confers doctoral degrees. Eight institutions changed GSS degree-granting status in 2010. The status of one institution and one school changed from eligible to ineligible, based on criteria for inclusion in the GSS (see "Survey Universe" above).

Status changed to doctorate granting from master's granting, five institutions:

- Missouri State University
- Philadelphia College of Osteopathic Medicine
- Roosevelt University
- University of West Georgia
- Xavier University

Status changed to master's granting from doctorate granting, three institutions:

- CUNY College of Staten Island
- Embry-Riddle Aeronautical University
- University of Texas at Tyler

Status changed from eligible to ineligible, two institutions/schools:

- East Central University
- Harvard Pilgrim Healthcare

## Institution Name Changes and Mergers

Eight institutions reported a name change in 2010:

| 2009 name | 2010 name |
|---|---|
| • Coppin State College | • Coppin State University |
| • Forest Institute of Professional Psychology | • The School of Professional Psychology at Forest Institute |
| • Framingham State College | • Framingham State University |
| • Medical College of Georgia | • Georgia Health Sciences University |
| • RAND Graduate School of Policy Studies | • Pardee RAND Graduate School of Policy Studies |
| • Russell Sage College | • The Sage Colleges |
| • Washburn University of Topeka | • Washburn University |
| • Worcester State College | • Worcester State University |

## Survey Instrument and Procedures

In 2010 the Web survey was the primary mode of data submission. The survey was launched in October 2010 and concluded in July 2011.

The 2010 survey consisted of two parts: Part 1, which could only be completed using the Web survey system, required the identification of organizational units ("units") within the school. Part 2 collected counts and selected characteristics of graduate students, postdocs, and NFRs. A paper worksheet was provided for preparing figures to be entered later in Part 2 of the Web survey. To assist with the transfer of information, the content and format of the paper worksheet were identical to Part 2 of the Web survey. A small number of coordinators chose to submit Part 2 using modes other than the Web survey.

The deadline for Part 1, the update of the unit list, was 17 December 2010. Schools that missed this Part 1 deadline received special attention from the survey contractor early in the survey cycle. The deadline for submitting data for Part 2 was 28 February 2011.

To respond to Part 1 and Part 2, institutions selected coordinator(s) for each school that granted a graduate degree in a GSS-eligible field. Coordinators were responsible for the following:

- Identifying all eligible units (e.g., departments, degree-granting programs, research centers, health facilities)
- Reporting GSS data or delegating reporting to unit respondents, such as department personnel or personnel in nonacademic departments (e.g., the financial aid office or the registrar's office)
- Submitting the data for all units to the survey contractor
- Providing data, by field of study, from administrative records

### *Revisions to Survey Instrument*

The 2010 GSS collected expanded data on postdocs and NFRs as follows:

New data on postdocs:

- Postdoc definition—Respondents reporting postdoc data were asked whether the institution had a formal definition of a postdoc position and whether certain characteristics (e.g., doctorate was recently awarded) were required for their postdocs.
- Demographic data—Race and ethnicity by sex were added to augment the previously collected postdoc citizenship data. With these additions, postdoc and graduate student demographic data now correspond.
- Funding data—Primary source of support was expanded to include the detailed federal and nonfederal categories collected for full-time graduate students, and an additional "unknown or not stated" category was added. For the mechanisms of support, the category "nonfederal sources" was replaced by "other support."
- Doctoral degree type—Categories were expanded to collect whether a postdoc had a professional degree (e.g., MD, DVM), a doctoral degree (e.g., PhD, ScD), both a professional and a doctoral degree, or whether the doctoral degree type was unknown.
- Doctoral degree type by citizenship—Collected for postdocs who are U.S. citizens and permanent residents, or foreign nationals with temporary visas.
- Origin of postdocs' doctoral degrees—Categories included United States, a foreign country, or unknown.

New data on NFRs:

- Doctoral degree type by sex—Collected new doctoral degree type categories by male and female.

### *Revisions to Procedures*

In 2010 as part of an increased emphasis on improving data for postdocs and NFRs and to assist schools in reporting the additional information about postdocs and NFRs, the survey procedures were changed to encourage institutions to appoint a separate postdoc coordinator. Historically, a single school coordinator managed the data collection for graduate students, postdocs, and NFRs. The addition of a separate postdoc coordinator offered schools the flexibility to have a student coordinator oversee data collection for graduate students and a postdoc coordinator oversee data collection for postdocs and NFRs.

### *Revisions to Definitions*

Two new categories for doctoral degree types for the postdocs and NFRs were added in 2010:

- Doctoral Degree—Includes doctorates such as PhD, ScD, DSc, DEng, DESc, DES, DNSc, DPH, EdD, DA, DBA, DMA, DM, DSW, DDES, DPA, DPE, DCM, DHL, DIT, DME, DML, ThD, DFA, JSD, SJD, STD, JCD.
- Professional Degree—PhD-equivalent medical degrees, such as MD, DO, DVM, DDS, DNP, DPM, PharmD, PsyD, DMD, ND, DC, OD, DPT, AuD, OTD, DScPT.

## Bridge-Year Data Calculation and Display

The 2007 survey changes that included modifications to the set of GSS-eligible fields are displayed in most DSTs in two ways: "2007old" and "2007new." A comparison of 2007old with 2007new data reflects differences due to the addition of the three newly added science fields and recoding of units from their 2006 fields to other fields in 2007. Data shown under 2007old provide 2007 estimates using the 2006 taxonomy, whereas 2007new and subsequent years provide data using the taxonomy introduced in 2007.

The 2007 taxonomy changes were as follows:

- "Communication," "family and consumer sciences/human sciences," and "multidisciplinary/interdisciplinary studies" were added as newly eligible fields in GSS.
- "Architecture" field was pulled out from "civil engineering" as a separate field.
- "Neuroscience" was pulled out from "neurology" as a separate field.

## Response Rates

### *Units*

From 2007–10 the method for calculating the response rates for units differed from that in prior years. Some units that were considered complete respondents are now classified as

partial respondents. As in previous years, calculations were based on responses to the survey's data collection grids as follows: graduate student and postdoc counts, by race/ethnicity; full-time graduate student and postdoc counts, by primary sources/mechanisms of support; counts of postdocs, by type of doctoral degree and primary mechanism of support; counts of postdocs, by type of doctoral degree and citizenship; counts of postdocs, by origin of doctoral degree; and counts of NFRs, by type of doctoral degree and sex. In contrast, the criteria for classifying a unit's response were more stringent:

- Units that provided complete data for all of the grids were counted as complete respondents.
- Units that provided some data but were incomplete for any of the grids were considered partial respondents.
- Units that provided no data for all grids were counted as nonrespondents.

From 2004 through 2006, a unit was considered a complete respondent if it reported complete row and column totals in the data collection grids and a partial respondent if it reported only grand totals for these grids; otherwise the unit was considered a nonrespondent. Beginning in 2007, to receive complete response status, a unit needed complete row and column totals for all grids as well as all details summing to the totals. Units that had only complete row and column totals for all grids were counted as partial respondents. As in previous years, units that reported only grand totals for all tables were counted as partial respondents. For more information about the methods used though 2003 and the change from 2003 to 2004, please see the 2004 technical notes (http://www.nsf.gov/statistics/nsf06325 /appa.htm).

As in previous years, data collection grids in the Web survey were prefilled with zeros. Prior to 2007 prefilled zeros were considered legitimate responses if the grid was visited and left with all zeros in place. Beginning in 2007, a checkbox was placed above the grids. The respondent was required to check this box to explicitly confirm zeros for the grid to distinguish the true zeros reported by the respondents from those that remained from nonresponse. Grids with a marked checkbox contributed to a complete response for the unit. Grids with unchanged, prefilled zeros and a blank checkbox disqualified the unit from complete response status.

These new response rate calculations adhere to American Association for Public Opinion Research (AAPOR) standards for computing response rates.[3]

In 2010 the GSS received complete responses from 11,703 (85.4%) of the 13,711 eligible units. An additional 1,880 units (13.7%) were partial respondents. The remaining 128 units (0.9%) were nonrespondents. Table A-4 shows the unit response rates from 1975 through 2010.

### *Schools*

The 2010 method for calculating the school response rate was consistent with the method used from 2004 through 2009. School response rates were calculated as follows: a complete respondent if 90% or more of its units provided complete or partial data; a partial respondent if at least 50% but less than 90% of its units provided complete or partial data; and a nonrespondent if less than 50% of the units provided data. Of the 692 eligible schools, 680 schools (98.3%) were complete respondents, 7 schools (1.0%) were partial respondents, and 5 schools (0.7%) were nonrespondents.

### *Institutions*

Institutional response rates were calculated using the same thresholds for unit response used for schools. Of the 574 eligible institutions, 564 institutions (98.3%) were complete respondents, 6 institutions (1.0%) were partial respondents, and 4 institutions (0.7%) were nonrespondents.

## Retrieval and Editing

Data quality is ensured by interactive edit checks built into the Web survey and a comprehensive review after the data are submitted by the coordinator. The Web survey edits verify that the data entered are internally consistent and within an expected range often based on the previous year's data. Unit respondents are asked to explain the discrepancy whenever counts differ substantially from that of the previous year.

Postsubmission data quality checks were implemented in 2010 to identify questionable data that need further review. These quality checks were conducted when counts remained identical and also for changes to the unit list, total counts, and distribution of counts. Changes to the unit list included all unit additions and deletions and also changes to the highest degree-granted status, GSS code, and unit name. Total count changes were reviewed if they fluctuated significantly from the 2009 data, were greater than five and went to/from zero, or were more than two standard deviations away from the mean change for that total. Significant changes to the distribution of counts by race/ethnicity, gender, or primary funding type were also reviewed, as were all cases where the responses provided in any given grid were greater than five and unchanged from the previous survey cycle or identical to the data provided for a different grid or unit in the same school in the same survey cycle.

Data fluctuations that were not sufficiently explained by the comments provided by the respondents during data collection were flagged for follow-up by telephone call to the coordinator. Revisions were made directly in the Web survey by the coordinator, unit respondents, or GSS contractor staff at the direction of the coordinator. See "Known or Suspected Sources of Nonsampling Error," below, for a discussion of the types of measurement error detected in the 2010 data review and retrieval process.

## Item Nonresponse and Imputation

There were 370 data items in 2010: 200 original items and 170 new items. Overall, item nonresponse rates ranged from 1.2% to 8.3%, with a mean of 5.1%. The nonresponse rates for new items were slightly higher than the rates for original items (table 2).

TABLE 2. Item nonresponse rates, overall (original and new): 2010

| | Minimum | Maximum | Mean |
|---|---|---|---|
| Overall | 1.2% | 8.3% | 5.1% |
| Original items | 1.2% | 7.4% | 4.7% |
| New items | 4.5% | 8.3% | 5.6% |

The vast majority of the new data items collected were from new questions introduced in 2010, but a small number of data items were revised questions with different response categories and in a different format from those collected in previous survey cycles. Given

that these new data items have no historical data on which to base imputation, missing values in these data were not imputed in 2010. These data items are noted with a "_U" at the end of the variable name in the GSS public use file. For the remaining 200 data items, all missing data were imputed.

Different imputation techniques were used for extant units and new units. For units with at least 1 year of reported or imputed data, a carry-forward imputation method was used. Inflation factors were calculated for four key totals to account for year-to-year change. The previous year's key totals were then multiplied by these inflation factors to calculate the imputed values for the current year's key totals. Finally, all other variables were imputed by distributing the imputed key totals according to the previous year's proportions. The same procedure was used in the 2008 and 2009 imputations. In 2007 the carry-forward method was used only if the unit reported data within the previous 5 years. This condition was lifted in 2008 because simulations using the 2007 data revealed that the carry-forward method performed better than other methods, even if the previous data were reported more than 20 years ago.

When no reported or imputed data existed for a unit in a prior survey cycle, a different approach was needed. For new units with reported totals but no details in 2010, a nearest-neighbor imputation method was used. In this method, a donor unit that was nearest to the unit whose data were being imputed (imputee) was identified among all responding units having similar characteristics as the imputee (such as having the same GSS code and offering a Ph.D. degree). When graduate student details were being imputed, the nearest neighbor selected had full-time and part-time graduate enrollments that were most similar to the imputee's enrollments. When postdoc and NFR details were being imputed, the total number of postdocs was used to choose the nearest neighbor. The imputed values were calculated by adjusting the donor's values to account for the difference in full-time and part-time enrollment totals between the two units.

In rare circumstances when no data were available from a new unit, Integrated Postsecondary Education Data System (IPEDS) completions and enrollment data were used to estimate graduate student totals and details. This approach was instituted with the 2008 survey cycle based on research that demonstrated its superiority over a nearest-neighbor method under these conditions. Because IPEDS does not collect data on postdocs and NFR, a nearest neighbor was selected from the 2010 GSS data to estimate these counts.

Tables A-5 through A-12 show imputed data and/or imputation rates for different categories.

## Known or Suspected Sources of Nonsampling Error

Review of the data, cognitive interviews, usability tests, pilot tests, site visits, and other methodological activities conducted with the institutions have pointed to several possible sources of measurement error. These situations are discussed below, along with any steps taken to minimize the impact on the data, where applicable.

Data review and telephone interviews conducted with coordinators have revealed overreporting of graduate students working toward practitioner degrees, particularly in health fields. Starting with the 2007 survey cycle, survey materials instructed that students pursuing master's, DDS, or MD degrees in 24 specified fields should be excluded. After the change in survey materials, coordinators often provided a comment explaining that they were deleting a unit because the unit's degrees were practitioner based. These comments provide some indication that the explicit instructions may have reduced reporting error. However, the data quality control process in 2009 indicated that some coordinators were still reporting graduate

students in practitioner-based degree programs. Many coordinators revised downward the total count of graduate students in fields with degree exclusions, particularly among nursing units, after being contacted about questionable data. Systematic checks for this type of measurement error ensure that coordinators are aware of the degree exclusions and are reporting data appropriately. In the 2011 survey cycle, checks will be built into the Web survey to remind respondents to exclude students pursuing practitioner-based degrees.

Data review and retrieval indicated that zeros reported by respondents sometimes represent nonresponse rather than actual zero counts. Not distinguishing between the two could result in low estimates, given that data for a given variable are not imputed when item nonresponse is misinterpreted as a zero response. In 2007, to distinguish zero-entered responses from true nonresponses, a checkbox was added for the respondent to confirm a zero entry. Although this helped to reduce substantially the number of ambiguous zero counts, counts for the subgroups still had similar problems.

In 2010 the survey instrument was revised to collect the subgroup counts directly, eliminating most instances of ambiguous zeros. The one exception was for first-time, full-time graduate students. These data were checked for ambiguous zero counts, and follow-up calls with respondents were made to clarify responses, as needed.

Methodological research, data review and retrieval, and feedback from respondents indicated that graduate students' financial support data were difficult for respondents to report and, therefore, more prone to measurement error than other survey data. Difficulties in reporting these data may occur because the information may not be stored in one centralized database; financial support may not always be channeled through the institution (e.g., self-support); and foreign sources of support may not always be known. Respondents may also have difficulty categorizing financial information by field, such as when a student is enrolled in one unit but receives support from another. Finally, institutions define mechanisms of support differently (e.g., fellowships vs. traineeships) and may report individuals according to the institution's definition rather than that provided by the GSS.

Usability tests conducted with respondents in 2008 showed that there had been some misreporting of race and ethnicity that may have been due to the format of the GSS race/ethnicity questions. The format reflected NSF's interpretation of the Office and Management and Budget's (OMB's) 1997 revision of its standards on collecting these data. In 1999, GSS began collecting data on Hispanics of one race separately from data on multiracial Hispanics, although this was not necessary for compliance with the revised OMB standards. The cognitive interviews revealed that black Hispanics and white Hispanics were sometimes counted in the "Hispanic, More than one race" category, rather than in the appropriate "Only one race, Hispanic" category. In 2008, these two Hispanic categories were collapsed into one: "Hispanic/Latino ethnicity (one or more races)." Subsequent cognitive interviews indicated that the new grouping was easier for respondents to understand.

Increasing numbers of students are choosing not to report their race to their institution, leading to growth over time in the "Unknown/race not stated" GSS category. This leads to gradual declines in the proportion of students reported in some racial and ethnic groups. This trend is not unique to GSS.

Interviews and usability tests with respondents as well as data review and retrieval efforts have found that data on postdocs and NFRs are particularly challenging for some respondents to report. Many respondents indicate in the Web survey that they are unable to provide data on their unit's postdocs or NFRs. Starting with the 2010 survey cycle, schools were given the option of appointing a separate postdoc coordinator who may be more knowledgeable about the postdocs or NFRs at their school to provide these data.

Anecdotal evidence indicated that some misreporting may have occurred when an institution had more than one coordinator or offered joint programs, although written instructions emphasized that each individual should be counted only once. To reduce double counting, facilitate inter-institution communication, and allow sharing of reported data, a screen in the Web survey provides names and contact information for all school coordinators at the institution.

## Data Revisions

In 2007 the GSS discontinued the practice of revising previous years' data based on changes the institutions report in units' eligibility and institutions' doctorate-granting status in the current survey cycle. Previously, reported counts for a given year fluctuated with each annual report because the current year's eligibility and doctorate-granting status changes were applied retrospectively to all years in the DSTs. Except for table 25, counts in the 2010 DSTs for 2004–06 reflect eligibility and doctorate-granting status as of fall 2006; they have not been adjusted to reflect changes in status that may have occurred between fall 2006 and fall 2010.

Table 25 historically has listed and ranked each institution that was doctorate granting in the current survey cycle, regardless of doctoral degree–granting status or eligibility in previous years. These rules have been continued in 2010. Thus, in table 25, data in years 2004–09 are counts of graduate students in those institutions that were doctorate granting in 2010, and totals for 2004–09 in this table differ from totals for 2004–09 in other tables for doctorate-granting institutions in this report.

When requested by the institution, the GSS will replace imputed estimates with actual data, but only for the most recent survey cycle. No such requests were made in the 2010 survey cycle.

## Definitions

Data collected in 2010 included demographic and funding information for graduate students, postdocs, and NFRs. Definitions of key terms follow.

### *Enrollment Status*

*Full-time and part-time*—Respondents were instructed to use their institution's definition.

*First-time*—Students enrolled for credit in a graduate degree program in an organizational unit for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at the institution or at another institution. It may also include students who already hold another graduate or professional degree.

### *Race and Ethnicity*

The GSS uses definitions of race/ethnicity that are based on the OMB's "Standards for the Classification of Federal Data on Race and Ethnicity":

*Hispanic or Latino* (one or more races)[4]—All individuals of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Includes individuals who are Hispanic or Latino *and* any other race(s).

*Non-Hispanic/Latino*—Individuals who are not Hispanic or Latino descent, regardless of race.

*American Indian or Alaska Native*—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.

*Asian*—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent—for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

*Black or African American*—A person of only one race having origins in any of the black racial groups of Africa.

*Native Hawaiian or Other Pacific Islander*—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.

*White*—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa.

*More than one race*—A person of two or more of the race categories listed above.

*Unknown race/ethnicity*—A person whose ethnicity or race is unknown or not stated.

The survey began collecting Asian and Native Hawaiian/Other Pacific Islander data separately in 1999; the past reports and DSTs reported the data for these groups as a combined category because less than 0.5% of graduate students have been reported in the Native Hawaiian/Other Pacific Islander category. Starting in 2010, these two categories are reported separately.

From 1999 through 2007, the survey forms collected counts of Hispanics of one race separately from counts of Hispanics reporting two or more races. However, reports and DSTs in these years combined these data in one Hispanic or Latino category because no more than 0.5% of graduate students were classified as multiracial Hispanics. In 2008 the survey forms combined these categories into a single Hispanic or Latino category.

The past reports and DSTs prior to 2010 reported the non-Hispanic/Latino multiracial category with those of unknown race as a combined category because no more than 0.2% of graduate students were identified as such. Starting in 2010, these two categories are reported separately.

### *Historically Black Colleges and Universities (HBCUs)*

*Historically black colleges and universities (HBCUs)*—Institutions of higher education that have been historically considered to enroll predominantly black students. The Department of Education maintains an official list of HBCUs, which is reviewed annually.

### *Graduate Student Mechanisms of Financial Support*

*Fellowship*—A competitive award (often from a national competition) given to a graduate student that requires no work of the recipient.

*Traineeship*—A financial award given to a graduate student selected by the institution.

*Research assistantship*—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to research.

*Teaching assistantship*—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to teaching assistant activities.

*Other support*—All other mechanisms of support for graduate students.

### *Graduate Student Source of Financial Support*

*Federal sources*—Financial support provided by the federal agencies. Excludes federally guaranteed student loans.

*Nonfederal sources*—Financial support from state and local government; institutional support, such as tuition waivers and stipends, support from foreign sources, such as foreign government, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

*Self-support*—Supported by loans (including federal loans) or personal or family financial contributions.

### *Postdoctoral Researchers (Postdocs)*

*Postdoc*—The definition of a postdoc varies by institution. Respondents were instructed to use their institution's definition of a postdoc. NSF defines a postdoc as meeting both of the following qualifications:

1. Holds a recent doctoral degree, generally awarded within the last 5–7 years, such as
   – PhD or equivalent (e.g., ScD, DEng), or
   – First-professional degree in a medical or related field (e.g., MD, DDS, DO, DVM), or
   – Foreign degree equivalent to a U.S. doctoral degree
2. Has a limited-term appointment, generally no more than 5–7 years,
   – Primarily for training in research or scholarship, and
   – Working under the supervision of a senior scholar in a unit affiliated with the institution

### *Mechanisms of Financial Support for Postdocs*

*Fellowship*—A competitive award (often from a national competition) given to a postdoc that requires no work of the recipient.

*Traineeship*—A financial award given to a postdoc selected by the institution.

*Research grant*—A financial assistance award given to an organization or an individual postdoc that supports specific research goals.

*Other support*—All other mechanisms of support for postdocs.

### *Sources of Financial Support for Postdocs*

*Federal sources*—Financial support provided by the federal agencies.

*Nonfederal sources*—Financial support from state and local government; institutional support, support from foreign sources, such as foreign government, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

*Personal resources*—The personal and family financial resources, including federal and other loans.

*Unknown or not stated*—Sources of financial support for the postdoc are unknown or cannot be determined.

### *Nonfaculty Researchers*

*Nonfaculty researchers*—All doctorate-holding researchers who (1) are not considered either postdoctoral researchers or members of the faculty, and (2) are involved principally in S&E or health research activities. Also referred to as Other Doctorate-Holding Nonfaculty Researchers.

## Historical Changes

Changes have been made to the coverage and content of the GSS to keep it relevant to the needs of data users. Such changes prevent precise maintenance of trend data; therefore, some data items are not available for all institutions in all years. Major changes in the data collected (with the year in which changes became effective) include the following:

### *Data Revisions*

| | |
|---|---|
| 1988–2006 | Retrospective revisions of estimates based on changes in unit eligibility began in 1988 and continued through 2006. Data for units no longer eligible were removed from counts that were originally published from 1975 through 1988, and revised estimates were produced. These changes resulted in reduction in total enrollments and social sciences enrollments for all years. |
| 1992–2006 | Starting in 1992, annual reporting revised retrospectively to reflect degree-granting status (master's or doctorate) of institution responding to current survey cycle. Over years, several master's-granting institutions became doctorate-granting institutions, and a few doctorate-granting institutions became master's-granting institutions. As consequence, enrollment data in these institutions were reclassified to reflect their degree-granting status as of most recent survey cycle. This practice was discontinued in 2007. |

### *Demographic Characteristics*

*Sex*

| | |
|---|---|
| 1975 | Master's-granting institutions first requested to provide data on full-time graduate students by sex. |
| 1977 | Data on part-time graduate students by sex collected from master's-granting institutions for first time. |

| | |
|---|---|
| 1978 | Doctorate-granting institutions received short form of GSS that collected selected data items. Short form did not request any information on sex, and 1978 figures in DSTs represent estimates based on 1977 and 1979 data. Master's-granting institutions were not surveyed. |
| 1979 | Data on sex requested for all graduate students at all institutions. |
| 1993 | Began collecting race/ethnicity data on all graduate students by sex. |
| 2008 | Began collecting number of first-time, full-time male graduate students by race/ethnicity; full-time male graduate students by source of support; male postdocs by source of support; and male doctorate-holding nonfaculty researchers. Previously, number of men was inferred by subtracting number of women from total. |
| 2010 | Began collecting citizenship and race/ethnicity data on postdocs by sex. |

*Race/ethnicity*

| | |
|---|---|
| 1979 | Began collecting race/ethnicity data for full-time and part-time graduate students who were U.S. citizens as optional data item; collection of this information became official part of GSS in 1980. |
| 1992 | Began including permanent residents with counts of U.S. citizens. Beginning in 1992, race/ethnicity data collected for full-time and part-time graduate students include permanent residents. |
| 1993 | Began collecting race/ethnicity data by sex. |
| 1999 | Presented respondents with new race/ethnicity categories. "Asian/Other Pacific Islander" category used in previous years' surveys became two categories: "Asian" and "Native Hawaiian/Other Pacific Islander." Also, survey included two new categories: "More than one race Hispanic/Latino" and "More than one race non-Hispanic/Latino." 1999 survey excluded "other" category that had been included in previous years' surveys.<br><br>Although new race/ethnicity categories were added in 1999, reports and DSTs combined data into previous categories because no more than 0.5% of graduate students were reported in "Native Hawaiian/Other Pacific Islander" and "More than one race" categories each year. From 1999–2009, reports and DSTs reported data on "Asian" and "Native Hawaiian/Other Pacific Islander" categories in combined "Asian/Other Pacific Islander" category; data on "One race, only Hispanic/Latino" and "More than one race, Hispanic/Latino" categories in "Hispanic" category; and data on "More than one race non-Hispanic/Latino" and "Unknown or did not state race/ethnicity" categories in combined "Other or unknown" category. |
| 2008 | Race/ethnicity categories revised to correspond to IPEDS by combining "Hispanic/Latino, One race only," and "Hispanic/Latino, More than one race," categories into "Hispanic/Latino (one or more races)." |
| 2010 | Began collecting race/ethnicity data for postdocs using same categories as in graduate students. |

*Citizenship*

| | |
|---|---|
| 1972–79 | Collected citizenship data for graduate students selectively in these years. These data are not included in data file. |

| | |
|---|---|
| 1977 | Began collecting citizenship data for postdocs. |
| 1978 | Doctorate-granting institutions received short form of GSS that did not collect any data on postdocs. Master's-granting institutions not surveyed. |
| 1980 | Citizenship data collected for all graduate students enrolled full-time. These data have been included in data file since 1980. |
| 1982 | Citizenship data collected for all graduate students enrolled part-time. These data have been included in data file since 1982. |
| 1992 | Definitions of foreign students and U.S. citizens changed to match those used by NCES. Starting in 1992, GSS began including permanent residents with count of U.S. citizens instead of with count of foreign students. |
| 2008 | Clarification made for "non-U.S. citizens" to exclude non-U.S. citizens residing outside United States who are enrolled in online degree program at U.S. institution. |
| 2010 | Began collecting citizenship data on postdocs using same categories as used for graduate students. In previous years, only counts of postdocs who are foreign nationals holding temporary visas were collected. |

### *Enrollment Status*

| | |
|---|---|
| 1975 | Graduate institutions that granted only master's degrees asked to provide estimates for number of full- and part-time students. |
| 1999 | Began collecting data on first-time, full-time enrollment by race/ethnicity and sex; citizenship data were collected but first reported in 2000. |

### *Graduate Student Support*

| | |
|---|---|
| 1978 | GSS did not collect data on mechanisms of support but did so on sources of support for full-time students. Because actual mechanisms of support were unknown, data were reported only as "other." Master's-granting institutions not surveyed. |
| 1979 | Began collecting separate data on mechanisms of support for fellowships and traineeships. (Prior years had combined these mechanisms.) |
| 1985 | Began collecting separate data on students receiving their primary support from U.S. Department of Agriculture. |
| 1996 | Began collecting separate data on students receiving their primary support from National Aeronautics and Space Administration. |
| 1999 | Began collecting separate data on students receiving their primary support from U.S. Department of Energy. |
| 2008 | Data no longer collected for National Institutes of Health (NIH) teaching assistantships because NIH does not offer financial support to graduate students through this mechanism. |
| | Began collecting number of full-time graduate students whose largest source of support came from non-U.S. source via teaching assistantship. |

### *Postdocs and NFRs*

| | |
|---|---|
| 1972 | Began collecting sources and mechanisms of financial support for postdocs and/or research associates as one combined category. |
| 1977 | Began collecting information on foreign postdocs and/or research associates. |
| 1979 | Changed "research associates" to "nonfaculty research staff with doctorates" and began collecting separate data on postdocs and nonfaculty research staff. GSS also began collecting information by sex. At this time, data item "sources of support by mechanism of support" was collected only for postdocs; it was not collected for other nonfaculty research staff with doctorates. |
| 1979 | Began collecting separate data on mechanisms of support for federal fellowships and federal traineeships. (Prior years had combined these mechanisms.) |
| 1983 | Began collecting information on postdocs' medical degree status. |
| 2010 | Began collecting race/ethnicity data for postdocs who are U.S. citizens and permanent residents. Began collecting data on largest source of financial support, and largest mechanism of support separately for postdocs. Mechanism of support (fellowship, traineeship, research grant) nonfederal sources of support was replaced with "other support." |
| | Began collecting more detailed information on postdocs' and doctorate-holding nonfaculty researchers' doctoral degree type. Categories were added for those holding both doctoral (e.g., PhD, ScD) and professional degrees (e.g., MD, DVM) and for whom type of degree was unknown. |
| | Postdocs' type of degree began being collected by citizenship. Additionally, country of origin (U.S., foreign, unknown) of postdocs' doctoral degrees started being collected. |
| | Doctorate-holding nonfaculty researchers' type of degree began being collected by sex. |

### *Survey Instrument*

| | |
|---|---|
| 1975–77 | Data for master's-granting institutions collected on abbreviated form of GSS (short form). |
| 1978 | Doctorate-granting institutions received short form of GSS, collecting selected data items; master's-granting institutions were not surveyed. Figures for 1978 for total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data. |
| 1979 | All graduate institutions surveyed using same form; full-scale survey resumed. |
| 1998 | GSS made Web-based reporting system available to school coordinators and unit respondents. |

### *Survey Universe*

*Institutions Surveyed*

| | |
|---|---|
| 1966–71 | Data collected from limited number of doctorate-granting institutions through NSF Graduate Traineeship Program. Data are not comparable with data from 1972 through 2007. |

| | |
|---|---|
| 1972–74 | Beginning with 1972 survey, NSF assigned this data collection effort to Universities and Nonprofit Institutions Studies Group and gradually expanded effort during 1972–74 to include all institutions known to have programs leading to doctorate or master's degree. These data are not comparable with data collected before 1972 or after 1974. NSF has not inflated data for 1966–74 to reflect universe totals. |
| 1975 | Graduate institutions that granted only master's degrees in science, engineering, and health fields asked to provide estimates for number of full- and part-time students and number of postdocs or research associates. |
| 1975–77 | Data for master's-granting institutions collected on abbreviated form of GSS (short form). |
| 1978 | Doctorate-granting institutions received short form of GSS collecting selected data items; master's-granting institutions were not surveyed. Figures for 1978 for total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data. |
| 1979 | All graduate institutions surveyed using same form; full-scale survey resumed. |
| 1984–87 | Survey design changed to stratified random sample with certainty stratum that included all doctorate-granting institutions; all master's-granting, historically black colleges and universities; and all land-grant institutions. The remaining master's-granting institutions were divided into two sample strata, based on enrollment size. Enrollment data for 1984–87 have been adjusted to reflect universe totals. |
| 1988 | Surveying entire eligible survey population resumed for first time since 1983. Since 1988 GSS has attempted to cover all academic institutions that grant master's degrees or research doctorates in science, engineering, and selected health fields. |
| 1992 | Definition of medical schools revised during fall 1992 survey cycle to include only those institutional components that are members of Association of American Medical Colleges (AAMC). Tables generated after fall 1992 survey differ from their counterparts in earlier years in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines and should not be compared with tables from earlier years. |
| 2005 | Because of Hurricane Katrina, data for Tulane University and Loyola University New Orleans were not included, and Louisiana State University (LSU) data are for Graduate School (Baton Rouge) and Health Sciences Center (Shreveport) only; the two New Orleans campuses of LSU were closed. Data from these schools were not available and were not imputed. |
| 2008 | Three members of AAMC added to GSS: Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Universidad Central del Caribe School of Medicine, and University of Missouri–Kansas City School of Medicine. |

*GSS-Eligible Fields*

| | |
|---|---|
| 1966–71 | Data collected only for S&E fields supported by NSF from limited number of doctorate-granting institutions through NSF Graduate Traineeship Program. NSF has made no attempt to inflate data for 1966–71 to reflect universe totals. |
| 1972–75 | Beginning with 1972 survey, NSF assigned this data collection effort to Universities and Nonprofit Institutions Studies Group and gradually expanded effort during period 1972–75 to include additional S&E fields and selected |

| | |
|---|---|
| | health fields. Because of this expansion, data for 1974 and earlier years are not strictly comparable with data from 1975 and later. NSF has not inflated data for 1972–74 to reflect universe totals. |
| 1988 | NSF reviewed and tightened criteria for including departments in survey universe. NSF considered those departments that were not primarily oriented toward granting research degrees as no longer meeting definition of S&E. As a result of this review, NSF determined that several departments, especially in field of "social sciences, not elsewhere classified," were engaged primarily in training teachers, practitioners, administrators, or managers rather than researchers; consequently, NSF deleted these departments from the database. NSF continued this process throughout 1989–2006 and expanded it to ensure trend consistency for entire period from 1975 through 2006. As result of these changes, total enrollments and social sciences enrollments were reduced for all years. |
| 2007 | NSF reviewed and updated classification scheme of GSS-eligible S&E and health fields. New scheme first used in 2007 survey cycle. Three newly eligible fields were added, some degree-granting programs became ineligible, and others were reclassified. Practitioner-based fields deemed ineligible. |

## Data Availability

NSF's National Center for Science and Engineering Statistics (NCSES) releases the data from this survey annually in its *Graduate Students and Postdoctorates in Science and Engineering* InfoBrief and DSTs series. The information from this survey is also included in the publications *Science and Engineering Indicators* and *Women, Minorities, and Persons with Disabilities in Science and Engineering*. NSF includes selected data items from this survey for individual doctorate-granting institutions in the *NCSES Academic Institutional Profiles* series (http://www.nsf.gov/statistics/profiles/).

Data from this survey are available through the WebCASPAR data system (https://webcaspar.nsf.gov/). Public-use data files in Excel, SAS, and SPSS formats and the guide to the public-use data files are available for the years 1972–2010 at http://www.nsf.gov /statistics/srvygradpostdoc/pub_data.cfm.

## Changes in the Detailed Statistical Tables

The published tables on graduate students were reduced from 73 tables in 2009 to 26 tables in 2010. The unpublished tables are available on request. The 3 tables on postdocs in the 2009 report were expanded to 24 tables in the 2010 report to provide similar details on the postdocs as the graduate students. The complete list of tables produced in 2010 is shown in exhibit 1. The published tables are designated by table number in the first column. The remaining tabulations, designated as "supplemental table," are available on request from the GSS Project Officer.

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

| 2010 GSS published table | Prior-year crosswalk and supplemental data table | Table title |
|---|---|---|
| | | Graduate students in science, engineering, and health |
| 1 | 1 | Graduate students in science, engineering, and health, by field: 1975–2010 |
| 2 | 2 | Graduate students in science, by science fields: 1975–2010 |
| 3 | 3 | Graduate students in engineering, by engineering fields: 1975–2010 |
| | S-4 | Male graduate students in science, engineering, and health, by field: 1977–2010 |
| | S-5 | Male graduate students in science, by science fields: 1977–2010 |
| | S-6 | Male graduate students in engineering, by engineering fields: 1977–2010 |
| 4 | 7 | Female graduate students in science, engineering, and health, by field: 1977–2010 |
| | S-8 | Female graduate students in science, by science fields: 1977–2010 |
| | S-9 | Female graduate students in engineering, by engineering fields: 1977–2010 |
| | | Full-time graduate students, by field |
| 5 | 10 | Full-time graduate students in science, engineering, and health, by field: 1975–2010 |
| | S-11 | Full-time graduate students in science, by science fields: 1975–2010 |
| | S-12 | Full-time graduate students in engineering, by engineering fields: 1975–2010 |
| | S-13 | Male, full-time graduate students in science, engineering, and health, by field: 1977–2010 |
| | S-14 | Male, full-time graduate students in science, by science fields: 1977–2010 |
| | S-15 | Male, full-time graduate students in engineering, by engineering fields: 1977–2010 |
| 6 | 16 | Female, full-time graduate students in science, engineering, and health, by field: 1977–2010 |
| | S-17 | Female, full-time graduate students in science, by science fields: 1977–2010 |
| | S-18 | Female, full-time graduate students in engineering, by engineering fields: 1977–2010 |
| 7 | 19 | U.S. citizen and permanent resident full-time students in science, engineering, and health, by field: 1980–2010 |
| | S-20 | U.S. citizen and permanent resident full-time graduate students in science, by science fields: 1980–2010 |
| | S-21 | U.S. citizen and permanent resident full-time graduate students in engineering, by engineering fields: 1980–2010 |
| 8 | 22 | Full-time graduate students with temporary visas, by field: 1980–2010 |
| | S-23 | Full-time graduate students with temporary visas in science, by science fields: 1980–2010 |
| | S-24 | Full-time graduate students with temporary visas in engineering, by engineering fields: 1980–2010 |
| | | Graduate students in science, engineering, and health in all institutions: 2004–10 |
| 9 | 25 | Graduate students, by detailed field |
| | S-26 | Male graduate students, by detailed field |
| 10 | 27 | Female graduate students, by detailed field |
| | S-28 | Graduate students in public institutions, by detailed field |
| | S-29 | Graduate students in private institutions, by detailed field |
| 11 | 33 | Full-time graduate students, by detailed field |
| | S-34 | Male, full-time graduate students, by detailed field |
| | S-35 | Female, full-time graduate students, by detailed field |
| | S-36 | Full-time graduate students with temporary visas, by detailed field |
| 12 | 42 | First-time, full-time graduate students, by detailed field |
| | S-43 | First-time, full-time U.S. citizen and permanent resident graduate students, by detailed field |
| | S-44 | First-time, full-time graduate students with temporary visas, by detailed field |
| | S-45 | First-time, full-time graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 13 | 30 | Graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-31 | Male graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 14 | 32 | Female graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 15 | 37 | Full-time graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-38 | Full-time graduate students, by field and primary source of support |
| | S-39 | Full-time graduate students, by field and primary mechanism of support |
| | S-40 | Full-time graduate students in science and engineering fields, by primary mechanism and primary source of support |
| | S-41 | Full-time graduate students in health fields, by primary mechanism and primary source of support |
| | | Graduate students in science, engineering, and health in doctorate-granting institutions: 2004–10 |
| 16 | 51 | Graduate students, by detailed field |
| 17 | 52 | Graduate students in public doctorate-granting institutions, by detailed field |

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

| 2010 GSS published table | Prior-year crosswalk and supplemental data table | Table title |
|---|---|---|
| | S-53 | Graduate students in private doctorate-granting institutions, by detailed field |
| 18 | 54 | Graduate students, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-55 | Graduate students in health fields, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-56 | Graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010 |
| | S-57 | Full-time graduate students, by detailed field |
| | S-58 | U.S. citizen and permanent resident full-time graduate students, by detailed field |
| | S-59 | Full-time graduate students with temporary visas, by detailed field |
| 19 | 60 | Full-time graduate students, by field and primary source of support |
| | S-61 | Full-time graduate students, by sex, primary source of support, and field: 2010 |
| | S-62 | Full-time graduate students in science fields in doctorate-granting institutions, by sex, primary source of support, and field: 2010 |
| | S-63 | Full-time graduate students in engineering fields in doctorate-granting institutions, by sex, primary source of support, and field: 2010 |
| 20 | 64 | Full-time graduate students, by field and primary mechanism of support |
| | S-65 | Full-time graduate students, by detailed field and primary mechanism of support: 2010 |
| | S-66 | Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support |
| | S-67 | Full-time graduate students in health fields in doctorate-granting institutions, by primary mechanism and primary source of support |
| | | Graduate students in science, engineering, and health in all institutions: 2010 |
| 21 | 46 | Graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-47 | Male graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 22 | 48 | Female graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 23 | 49 | Graduate students in science, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 24 | 50 | Graduate students in engineering, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | | Institutional rankings: 2004–10 |
| 25 | 68 | by 2010 graduate student total in science, engineering, and health |
| | | Graduate students in historically black colleges and universities (HBCUs) |
| | S-73 | Graduate students in science, engineering, and health fields in historically black colleges and universities, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010 |
| | S-74 | Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field: 2004–10 |
| | S-75 | Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field and sex: 2006–10 |
| | S-76 | Black, non-Hispanic U.S. citizen and permanent resident full-time graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field: 2004–10 |
| 26 | 77 | by field and sex: 2006–2010 |
| | | Postdoctoral appointees in all institutions: all available years |
| 27 | *new* | Postdoctoral appointees in science, engineering, and health, by field: 1979–2010 |
| 28 | *new* | Postdoctoral appointees in science, by science fields: 1979–2010 |
| 29 | *new* | Postdoctoral appointees in engineering, by engineering fields: 1979–2010 |
| | S-78 | Male postdoctoral appointees in science, engineering, and health, by field: 1979–2010 |
| | S-79 | Male postdoctoral appointees in science, by field: 1979–2010 |
| | S-80 | Male postdoctoral appointees in engineering, by field: 1979–2010 |
| 30 | *new* | Female postdoctoral appointees in science, engineering, and health, by field: 1979–2010 |
| | S-81 | Female postdoctoral appointees in science, by field: 1979–2010 |
| | S-82 | Female postdoctoral appointees in engineering, by field: 1979–2010 |
| | S-83 | U.S. citizen and permanent resident postdoctoral appointees in science, engineering, and health, by field: 1980–2010 |
| | S-84 | U.S. citizen and permanent resident postdoctoral appointees in science, by field: 1980–2010 |
| | S-85 | U.S. citizen and permanent resident postdoctoral appointees in engineering, by field: 1980–2010 |
| 31 | *new* | Postdoctoral appointees with temporary visas in science, engineering, and health, by field: 1979–2010 |
| | S-86 | Postdoctoral appointees with temporary visas in science, by field: 1980–2010 |
| | S-87 | Postdoctoral appointees with temporary visas in engineering, by field: 1980–2010 |
| | | Postdoctoral appointees in science, engineering, and health in all institutions: 2004–10 |
| 32 | 69 | Postdoctoral appointees, by detailed field |

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

| 2010 GSS published table | Prior-year crosswalk and supplemental data table | Table title |
|---|---|---|
| | S-88 | Male postdoctoral appointees in science, engineering, and health, by detailed field: 2004–10 |
| 33 | *new* | Female postdoctoral appointees, by detailed field |
| 34 | *new* | Postdoctoral appointees, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 35 | *new* | Postdoctoral appointees in public institutions, by detailed field |
| 36 | *new* | Postdoctoral appointees in private institutions, by detailed field |
| 37 | *new* | Postdoctoral appointees, by field and primary source of support |
| | | Postdoctoral appointees in science, engineering, and health in all institutions: 2010 |
| 38 | 70 | Postdoctoral appointees, by detailed field, sex, and citizenship |
| 39 | 70 | Postdoctoral appointees, by detailed field and primary source of support |
| 40 | *new* | Postdoctoral appointees, by detailed field and primary mechanism of support |
| 41 | *new* | Postdoctoral appointees, by field, primary source of support, and primary mechanism of support |
| 42 | *new* | Postdoctoral appointees, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | S-89 | Male postdoctoral appointees, by detailed field, citizenship, ethnicity and race of U.S. citizens and permanent residents |
| 43 | *new* | Female postdoctoral appointees, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 44 | *new* | Postdoctoral appointees in science, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| 45 | *new* | Postdoctoral appointees in engineering, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents |
| | | Institutional rankings: 2010 |
| 46 | 71 | by number of postdoctoral appointees in science, engineering, and health, by field |
| | | Postdoctoral appointees in science, engineering, and health in all institutions: 2010 |
| 47 | *new* | Postdoctoral appointees, by detailed field, citizenship, and doctoral degree |
| 48 | *new* | Postdoctoral appointees, by detailed field and origin of doctoral degree |
| 49 | *new* | Postdoctoral appointees, by type of doctoral degree, primary mechanism of support, and field |
| 50 | *new* | Postdoctoral appointees, by citizenship, ethnicity, and race of U.S. citizens and permanent residents, origin of doctoral degree, and field |
| | S-90 | Postdoctoral appointees, by detailed field and doctorate degree type |
| | S-91 | Postdoctoral appointees, by sex, primary mechanism of support, and field |
| | S-92 | Postdoctoral appointees in science fields, by sex, primary mechanism of support, and field |
| | S-93 | Postdoctoral appointees in engineering fields, by sex, primary mechanism of support, and field |
| | S-94 | Postdoctoral appointees in health fields, by region, state, institution, and citizenship, and by ethnicity and race of U.S. citizens and permanent residents |
| | S-95 | Postdoctoral appointees, by region, state, institution, and citizenship, and by ethnicity and race of U.S. citizens and permanent residents |
| | | Nonfaculty researchers in all institutions: all available years |
| | S-96 | Nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010 |
| | S-97 | Nonfaculty researchers in science fields, by field: 1979–2010 |
| | S-98 | Nonfaculty researchers in engineering fields, by field: 1979–2010 |
| | S-99 | Male nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010 |
| | S-100 | Male nonfaculty researchers in science fields, by field: 1979–2010 |
| | S-101 | Male nonfaculty researchers in engineering fields, by field: 1979–2010 |
| | S-102 | Female nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010 |
| | S-103 | Female nonfaculty researchers in science fields, by field: 1979–2010 |
| | S-104 | Female nonfaculty researchers in engineering fields, by field: 1979–2010 |
| | S-72 | Nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10 |
| | S-105 | Male nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10 |
| | S-106 | Female nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10 |
| | S-107 | Nonfaculty researchers in science, engineering, and health fields in public institutions, by detailed field: 2004–10 |
| | S-108 | Nonfaculty researchers in science, engineering, and health fields in private institutions, by detailed field: 2004–10 |
| | S-109 | Nonfaculty researchers in science, engineering, and health fields in doctorate-granting institutions, by detailed field, and sex: 2010 |
| | S-110 | Nonfaculty researchers in science, engineering, and health fields, by detailed field and doctorate degree type: 2010 |
| | S-111 | Nonfaculty researchers in science, engineering, and health fields, by region, state, and institution: 2010 |
| | S-112 | Institutions ranked by number of nonfaculty researchers, by field: 2010 |

NOTES: Prior-year numbering for tables published in this report are in boldface. Tables designated by "S" are available on request from project officer.

The postdoc data items collected in 2010 included same or similar data items in 2009; however, these postdoc items were reformatted in some way as part of the questionnaire redesign. For example, in the past, the degree-type question simply asked the respondents, "Of the total [postdoc count], how many have an MD, DO, DDS, or DVM?" In 2010, the question was expanded and asked the respondents to report the counts of postdocs by type of doctoral degree in the following categories: "Professional degree (MD, DVM, DO, DDS)," "Doctoral degree (PhD, ScD, DEng)," "Both professional and doctoral degree (MD-PhD, DVM-PhD)," and "Doctoral degree type unknown." Also, any missing data in the new postdoc and NFR items were not imputed in 2010 owing to the lack of historical data, and they were included in "Unknown/Not Reported" category in the data tables.

Therefore, the 2010 data may not be directly comparable with prior year data because it is unclear how much change in 2010 resulted from the redesigned questions. More information on the changes in postdoc data will be available in a forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

## Notes

[1] The research doctorate is a research degree that (1) requires an original contribution of knowledge to a field (typically, but not always, in the form of a written dissertation), and (2) is not primarily intended for the practice of a profession. For additional survey information and available data related to graduate student enrollment and postdocs in S&E, see http://www.nsf.gov/statistics/srvygradpostdoc/.

[2] In this report, the term *school* refers to a graduate school, medical school, dental school, nursing school, or school of public health; an affiliated research center; a branch campus; or any other organizational component within an academic institution that grants an S&E or selected health degree.

[3] See response rate 3 calculation, page 45, in AAPOR. 2011. Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys. 7th ed. AAPOR.

[4] The OMB standards designate Hispanics as an ethnic group rather than a racial group. Following these standards, Hispanic is not counted as a race in GSS. Cognitive interviews with respondents have shown that this is a source of considerable confusion. For example, black Hispanics and white Hispanics may be counted as "Hispanic, More than one race" rather than "Only one race, Hispanic." The race/ethnicity categories were aligned to IPEDS by combining the "Hispanic/Latino, More than one race," and "Hispanic/Latino, One race only," categories. In 2008 these two Hispanic categories were collapsed into one: "Hispanic/Latino ethnicity (one or more races)."

## Technical Tables


**Table Title**

A-1 NSF data collection series: 1966–2010

Science, engineering, and health organizational units

A-2 in doctorate-granting institutions, by detailed field: 2004–10

A-3 in master's-granting institutions, by detailed field: 2004–10

A-4 response rates:1975–2010

Imputation, by field and graduate enrollment or postdoctoral status: 2008–10

A-5 for nonresponse in doctorate-granting institutions

A-6 for nonresponse in master's-granting institutions

Imputation rates for graduate students and postdoctoral appointees in surveyed fields: 2010

A-7 full-time graduate students, by source and mechanism of support

A-8 graduate students, by citizenship, race/ethnicity, enrollment status, and sex

A-9 postdoctoral appointees and nonfaculty researchers

Imputed graduate students and postdoctoral appointees in surveyed fields: 2010

A-10 full-time graduate students, by source and mechanism of support

A-11 graduate students, by citizenship, race/ethnicity, enrollment status, and sex

A-12 postdoctoral appointees and nonfaculty researchers

TABLE A-1. The NSF data collection series: 1966–2010

| Year | Institutions surveyed | Schools surveyed[a] | Organizational units surveyed | | | Graduate enrollment in surveyed fields | | |
|---|---|---|---|---|---|---|---|---|
| | | | Total | Master's | Doctorate | Total | Full time | Part time |
| Graduate Traineeship Program | | | | | | | | |
| 1966 | 204 | 204 | 2,866 | 441 | 2,425 | 169,303 | 124,255 | 45,048 |
| 1967 | 209 | 209 | 3,014 | 434 | 2,580 | 179,622 | 133,972 | 45,650 |
| 1968 | 219 | 219 | 3,190 | 454 | 2,736 | 184,759 | 140,714 | 44,045 |
| 1969 | 224 | 224 | 3,354 | 460 | 2,894 | 196,341 | 147,515 | 48,826 |
| 1970 | 227 | 227 | 3,544 | 473 | 3,071 | 201,918 | 153,250 | 48,668 |
| 1971[b] | 224 | 224 | 3,397 | 407 | 2,990 | 214,680 | 164,764 | 49,916 |
| Doctorate institutions | | | | | | | | |
| 1972 | 252 | 321 | 4,568 | 764 | 3,804 | 207,859 | 159,392 | 48,467 |
| 1973 | 255 | 333 | 6,523 | 851 | 5,672 | 214,348 | 161,525 | 52,823 |
| 1974 | 276 | 367 | 7,468 | 1,387 | 6,081 | 259,968 | 190,562 | 69,406 |
| 1975 | 345 | 443 | 8,031 | 1,857 | 6,174 | 301,902 | 209,328 | 92,574 |
| 1976 | 355 | 454 | 8,131 | 1,916 | 6,215 | 305,824 | 213,033 | 92,791 |
| 1977 | 357 | 460 | 8,361 | 2,050 | 6,311 | 313,938 | 215,377 | 98,561 |
| 1978 | 345 | 454 | 8,381 | 1,998 | 6,383 | 308,107 | 211,508 | 96,599 |
| 1979 | 371 | 487 | 8,612 | 2,130 | 6,482 | 323,677 | 219,634 | 104,043 |
| 1980 | 370 | 486 | 8,714 | 2,174 | 6,540 | 333,164 | 225,877 | 107,287 |
| 1981 | 370 | 484 | 8,645 | 2,174 | 6,471 | 339,946 | 229,708 | 110,238 |
| 1982 | 369 | 484 | 8,504 | 2,162 | 6,342 | 346,668 | 232,980 | 113,688 |
| 1983 | 370 | 485 | 8,386 | 2,133 | 6,253 | 354,060 | 239,220 | 114,840 |
| 1984 | 345 | 464 | 8,320 | 2,033 | 6,287 | 353,673 | 239,400 | 114,273 |
| 1985 | 345 | 459 | 8,434 | 2,074 | 6,360 | 362,581 | 242,748 | 119,833 |
| 1986 | 345 | 461 | 8,509 | 2,083 | 6,426 | 373,545 | 251,562 | 121,983 |
| 1987 | 349 | 467 | 8,626 | 2,087 | 6,539 | 378,785 | 255,936 | 122,849 |
| 1988 | 375 | 494 | 8,949 | 2,250 | 6,699 | 386,300 | 262,351 | 123,949 |
| 1989 | 378 | 497 | 9,084 | 2,276 | 6,808 | 394,510 | 269,679 | 124,831 |
| 1990 | 377 | 496 | 9,234 | 2,332 | 6,902 | 409,419 | 278,637 | 130,782 |
| 1991 | 377 | 496 | 9,435 | 2,362 | 7,073 | 425,914 | 291,508 | 134,406 |
| 1992 | 377 | 496 | 9,678 | 2,417 | 7,261 | 445,704 | 305,979 | 139,725 |
| 1993 | 377 | 496 | 9,875 | 2,434 | 7,441 | 454,745 | 312,519 | 142,226 |
| 1994 | 376 | 495 | 10,093 | 2,499 | 7,594 | 455,332 | 313,976 | 141,356 |
| 1995 | 375 | 494 | 10,269 | 2,552 | 7,717 | 449,555 | 310,538 | 139,017 |
| 1996 | 376 | 495 | 10,289 | 2,608 | 7,681 | 444,319 | 309,418 | 134,901 |
| 1997 | 375 | 498 | 10,271 | 2,688 | 7,583 | 438,135 | 307,697 | 130,438 |
| 1998 | 375 | 497 | 10,366 | 2,713 | 7,653 | 435,826 | 307,040 | 128,786 |
| 1999 | 376 | 498 | 10,482 | 2,683 | 7,799 | 443,104 | 313,866 | 129,238 |
| 2000 | 375 | 497 | 10,526 | 2,726 | 7,800 | 443,542 | 319,923 | 123,619 |
| 2001 | 379 | 500 | 10,577 | 2,728 | 7,849 | 459,438 | 332,732 | 126,706 |
| 2002 | 374 | 495 | 10,726 | 2,778 | 7,948 | 487,645 | 355,611 | 132,034 |
| 2003 | 374 | 495 | 10,849 | 2,790 | 8,059 | 510,335 | 372,366 | 137,969 |
| 2004 | 374 | 495 | 10,858 | 2,781 | 8,077 | 518,641 | 377,984 | 140,657 |
| 2005 | 374 | 494 | 11,004 | 2,758 | 8,246 | 527,048 | 381,198 | 145,850 |
| 2006 | 374 | 495 | 10,946 | 2,745 | 8,201 | 542,073 | 393,138 | 148,935 |
| 2007old[c] | 375 | 493 | 10,976 | 2,830 | 8,146 | 551,832 | 403,722 | 148,110 |
| 2007new[c] | 375 | 493 | 11,210 | 2,949 | 8,261 | 561,352 | 409,421 | 151,931 |
| 2008 | 376 | 505 | 11,773 | 3,042 | 8,731 | 574,241 | 422,287 | 151,954 |
| 2009 | 366 | 493 | 11,865 | 2,956 | 8,909 | 573,883 | 428,856 | 145,027 |
| 2010 | 364 | 481 | 12,276 | 3,023 | 9,253 | 575,785 | 433,252 | 142,533 |
| Master's institutions | | | | | | | | |
| 1975[d] | 239 | 239 | 972 | 972 | na | 26,608 | 10,320 | 16,288 |
| 1976 | 239 | 239 | 979 | 979 | na | 27,892 | 10,379 | 17,513 |
| 1977 | 244 | 244 | 1,031 | 1,031 | na | 31,436 | 11,361 | 20,075 |

TABLE A-1. The NSF data collection series: 1966–2010

| Year | Institutions surveyed | Schools surveyed[a] | Organizational units surveyed | | | Graduate enrollment in surveyed fields | | |
|---|---|---|---|---|---|---|---|---|
| | | | Total | Master's | Doctorate | Total | Full time | Part time |
| 1978[e] | 254 | 254 | 1,128 | 1,128 | na | 31,805 | 11,522 | 20,283 |
| 1979 | 258 | 258 | 1,074 | 1,074 | na | 33,901 | 12,126 | 21,775 |
| 1980 | 256 | 256 | 1,084 | 1,084 | na | 33,914 | 12,539 | 21,375 |
| 1981 | 252 | 252 | 1,083 | 1,083 | na | 35,184 | 12,341 | 22,843 |
| 1982 | 240 | 240 | 1,080 | 1,080 | na | 35,623 | 11,777 | 23,846 |
| 1983 | 238 | 238 | 1,081 | 1,081 | na | 36,372 | 12,797 | 23,575 |
| 1984 | 66 | 66 | 471 | 471 | na | 40,997 | 14,522 | 26,475 |
| 1985 | 66 | 66 | 477 | 477 | na | 41,440 | 14,539 | 26,901 |
| 1986 | 66 | 66 | 476 | 476 | na | 41,975 | 14,606 | 27,369 |
| 1987 | 66 | 66 | 478 | 478 | na | 42,712 | 15,120 | 27,592 |
| 1988 | 229 | 229 | 1,066 | 1,066 | na | 38,223 | 12,776 | 25,447 |
| 1989 | 229 | 229 | 1,103 | 1,103 | na | 39,968 | 12,969 | 26,999 |
| 1990 | 231 | 231 | 1,124 | 1,124 | na | 42,694 | 14,145 | 28,549 |
| 1991 | 230 | 230 | 1,163 | 1,163 | na | 45,298 | 15,502 | 29,796 |
| 1992 | 229 | 229 | 1,194 | 1,194 | na | 47,818 | 16,576 | 31,242 |
| 1993 | 227 | 227 | 1,228 | 1,228 | na | 49,559 | 17,125 | 32,434 |
| 1994 | 227 | 227 | 1,272 | 1,272 | na | 49,067 | 18,112 | 30,955 |
| 1995 | 226 | 226 | 1,297 | 1,297 | na | 50,085 | 18,745 | 31,340 |
| 1996 | 225 | 225 | 1,290 | 1,290 | na | 49,760 | 19,118 | 30,642 |
| 1997 | 224 | 224 | 1,318 | 1,318 | na | 49,073 | 19,592 | 29,481 |
| 1998 | 224 | 224 | 1,319 | 1,319 | na | 49,801 | 20,349 | 29,452 |
| 1999 | 221 | 221 | 1,345 | 1,345 | na | 50,152 | 20,557 | 29,595 |
| 2000 | 219 | 219 | 1,368 | 1,368 | na | 49,769 | 21,360 | 28,409 |
| 2001 | 220 | 220 | 1,385 | 1,385 | na | 50,169 | 21,790 | 28,379 |
| 2002 | 220 | 220 | 1,400 | 1,400 | na | 52,759 | 23,380 | 29,379 |
| 2003 | 217 | 217 | 1,412 | 1,412 | na | 56,786 | 25,054 | 31,732 |
| 2004 | 215 | 215 | 1,410 | 1,410 | na | 55,822 | 24,589 | 31,233 |
| 2005 | 214 | 214 | 1,391 | 1,391 | na | 55,178 | 25,422 | 29,756 |
| 2006 | 212 | 212 | 1,374 | 1,374 | na | 55,570 | 25,877 | 29,693 |
| 2007old[c] | 207 | 207 | 1,349 | 1,349 | na | 55,991 | 27,138 | 28,853 |
| 2007new[c] | 207 | 207 | 1,419 | 1,419 | na | 58,147 | 27,944 | 30,203 |
| 2008 | 203 | 203 | 1,393 | 1,393 | na | 57,248 | 27,326 | 29,922 |
| 2009 | 209 | 210 | 1,420 | 1,420 | na | 57,762 | 27,259 | 30,503 |
| 2010 | 210 | 211 | 1,435 | 1,435 | na | 56,867 | 27,933 | 28,934 |

na = not applicable.

[a] Schools are administrative and degree-granting entities within academic institutions. Schools surveyed may exceed institutions surveyed because schools at some institutions report information to survey separately. Examples of schools eligible for GSS include graduate schools, schools of architecture, schools of medicine, schools of nursing, schools of pharmacology, schools of public health, and schools of veterinary medicine.

[b] 1972 survey also collected selected data for 1971.

[c] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. See appendix A, "Technical Notes," for further details and specific field changes.

[d] 1976 survey also collected 1975 data from master's-granting institutions.

[e] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

NOTES: Data from 1966 to 1974 are not directly comparable with data from 1975 forward due to changes both in science and engineering fields and in types of institutions covered in survey. In 2007, newly eligible science fields were added.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-2. Science, engineering, and health organizational units in doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005[a] | 2006 | 2007old[b] | 2007new[b] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 10,858 | 11,004 | 10,946 | 10,976 | 11,210 | 11,773 | 11,865 | 12,276 |
| Science and engineering | 7,870 | 7,990 | 7,993 | 8,235 | 8,516 | 9,008 | 9,191 | 9,482 |
| Science | 6,308 | 6,402 | 6,397 | 6,571 | 6,840 | 7,272 | 7,435 | 7,661 |
| Agricultural sciences | 377 | 389 | 383 | 388 | 393 | 438 | 453 | 445 |
| Biological sciences | 2,050 | 2,090 | 2,083 | 2,101 | 2,092 | 2,175 | 2,227 | 2,279 |
| Anatomy | 75 | 74 | 70 | 67 | 65 | 60 | 59 | 58 |
| Biochemistry | 181 | 184 | 181 | 183 | 178 | 182 | 183 | 185 |
| Biology | 268 | 269 | 275 | 271 | 260 | 273 | 274 | 269 |
| Biometry/epidemiology | 93 | 95 | 95 | 105 | 117 | 126 | 136 | 149 |
| Biophysics | 34 | 35 | 36 | 37 | 35 | 35 | 36 | 38 |
| Botany | 71 | 72 | 71 | 69 | 67 | 67 | 68 | 67 |
| Cell/molecular biology | 159 | 166 | 177 | 180 | 181 | 192 | 205 | 216 |
| Ecology | 45 | 45 | 46 | 51 | 47 | 44 | 41 | 42 |
| Entomology/parasitology | 42 | 40 | 40 | 39 | 39 | 42 | 40 | 40 |
| Genetics | 97 | 102 | 98 | 101 | 102 | 106 | 108 | 108 |
| Microbiology/immunology/virology | 248 | 246 | 237 | 234 | 225 | 229 | 225 | 222 |
| Nutrition | 127 | 131 | 131 | 128 | 120 | 121 | 121 | 124 |
| Pathology | 125 | 123 | 118 | 107 | 106 | 113 | 116 | 117 |
| Pharmacology | 156 | 155 | 152 | 151 | 150 | 154 | 158 | 160 |
| Physiology | 123 | 123 | 120 | 123 | 139 | 160 | 163 | 160 |
| Zoology | 29 | 29 | 27 | 27 | 27 | 22 | 20 | 18 |
| Biological sciences, nec | 177 | 201 | 209 | 228 | 234 | 249 | 274 | 306 |
| Communication[b] | ne | ne | ne | ne | 119 | 142 | 156 | 167 |
| Computer sciences | 382 | 391 | 394 | 409 | 401 | 417 | 422 | 439 |
| Earth, atmospheric, and ocean sciences | 373 | 376 | 375 | 382 | 374 | 387 | 388 | 407 |
| Atmospheric sciences | 35 | 36 | 33 | 38 | 40 | 42 | 42 | 51 |
| Geosciences | 207 | 208 | 205 | 208 | 206 | 212 | 215 | 211 |
| Ocean sciences | 57 | 56 | 57 | 59 | 57 | 59 | 59 | 65 |
| Earth/atmospheric/ocean sciences, nec | 74 | 76 | 80 | 77 | 71 | 74 | 72 | 80 |
| Family and consumer sciences/human sciences[b] | ne | ne | ne | ne | 61 | 71 | 81 | 87 |
| Mathematical sciences | 412 | 419 | 419 | 424 | 418 | 447 | 450 | 450 |
| Mathematics/applied mathematics | 322 | 327 | 327 | 329 | 321 | 338 | 339 | 335 |
| Statistics | 90 | 92 | 92 | 95 | 97 | 109 | 111 | 115 |
| Multidisciplinary/interdisciplinary studies[b] | ne | ne | ne | ne | 117 | 191 | 226 | 302 |
| Neuroscience[b] | na | na | na | na | 44 | 63 | 84 | 107 |
| Physical sciences | 595 | 604 | 606 | 610 | 608 | 627 | 640 | 664 |
| Astronomy | 39 | 41 | 41 | 43 | 43 | 46 | 46 | 49 |
| Chemistry | 281 | 285 | 288 | 289 | 289 | 294 | 297 | 295 |
| Physics | 250 | 251 | 250 | 251 | 252 | 260 | 262 | 270 |
| Physical sciences, nec | 25 | 27 | 27 | 27 | 24 | 27 | 35 | 50 |
| Psychology | 645 | 642 | 643 | 669 | 657 | 685 | 662 | 657 |
| Clinical psychology | 143 | 141 | 145 | 143 | 143 | 145 | 151 | 149 |
| Psychology, general | 191 | 192 | 192 | 191 | 188 | 194 | 189 | 180 |
| Psychology, nec | 311 | 309 | 306 | 335 | 326 | 346 | 322 | 328 |
| Social sciences | 1,474 | 1,491 | 1,494 | 1,588 | 1,556 | 1,629 | 1,646 | 1,657 |
| Agricultural economics | 57 | 57 | 57 | 56 | 54 | 53 | 55 | 52 |
| Anthropology (cultural/social) | 138 | 141 | 142 | 147 | 148 | 151 | 155 | 155 |
| Economics | 198 | 195 | 194 | 194 | 198 | 215 | 218 | 215 |
| Geography | 107 | 105 | 105 | 105 | 105 | 111 | 113 | 114 |
| History and philosophy of science | 27 | 31 | 33 | 33 | 30 | 32 | 30 | 25 |
| Linguistics | 74 | 73 | 75 | 79 | 74 | 80 | 80 | 79 |
| Political science/public administration | 379 | 381 | 379 | 397 | 390 | 387 | 389 | 396 |
| Sociology | 184 | 184 | 181 | 185 | 183 | 194 | 200 | 203 |

TABLE A-2. Science, engineering, and health organizational units in doctorate-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005[a] | 2006 | 2007old[b] | 2007new[b] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology/anthropology | 24 | 24 | 22 | 22 | 20 | 17 | 16 | 12 |
| Social sciences, nec | 286 | 300 | 306 | 370 | 354 | 389 | 390 | 406 |
| Engineering | 1,562 | 1,588 | 1,596 | 1,664 | 1,676 | 1,736 | 1,756 | 1,821 |
| Aerospace engineering | 54 | 55 | 57 | 58 | 58 | 56 | 58 | 62 |
| Agricultural engineering | 38 | 36 | 38 | 38 | 38 | 37 | 36 | 36 |
| Architecture[b] | na | na | na | na | 58 | 79 | 82 | 83 |
| Biomedical engineering | 97 | 101 | 110 | 116 | 117 | 128 | 137 | 143 |
| Chemical engineering | 146 | 148 | 147 | 149 | 149 | 150 | 148 | 148 |
| Civil engineering[b] | 267 | 272 | 269 | 290 | 243 | 247 | 251 | 257 |
| Electrical engineering | 259 | 266 | 261 | 271 | 270 | 272 | 265 | 266 |
| Engineering science/engineering physics | 38 | 38 | 38 | 37 | 37 | 40 | 43 | 47 |
| Industrial/manufacturing engineering | 172 | 172 | 169 | 172 | 170 | 168 | 157 | 161 |
| Mechanical engineering | 190 | 191 | 190 | 196 | 196 | 198 | 203 | 210 |
| Metallurgical/materials engineering | 113 | 113 | 115 | 117 | 119 | 125 | 129 | 129 |
| Mining engineering | 22 | 22 | 21 | 19 | 18 | 18 | 18 | 19 |
| Nuclear engineering | 23 | 23 | 23 | 26 | 24 | 25 | 25 | 26 |
| Petroleum engineering | 18 | 18 | 19 | 19 | 19 | 18 | 17 | 18 |
| Engineering, nec | 125 | 133 | 139 | 156 | 160 | 175 | 187 | 216 |
| Health | 2,988 | 3,014 | 2,953 | 2,741 | 2,694 | 2,765 | 2,674 | 2,794 |
| Clinical medicine | 2,000 | 2,001 | 1,937 | 1,739 | 1,693 | 1,767 | 1,757 | 1,888 |
| Anesthesiology | 88 | 88 | 88 | 72 | 72 | 68 | 65 | 64 |
| Cardiology | 62 | 60 | 56 | 46 | 46 | 54 | 52 | 57 |
| Endocrinology | 60 | 58 | 56 | 49 | 50 | 53 | 51 | 53 |
| Gastroenterology | 60 | 56 | 53 | 46 | 45 | 45 | 44 | 50 |
| Hematology | 60 | 57 | 53 | 43 | 43 | 42 | 41 | 41 |
| Neurology[b] | 172 | 175 | 178 | 177 | 127 | 122 | 117 | 112 |
| Obstetrics/gynecology | 84 | 84 | 83 | 68 | 67 | 68 | 69 | 72 |
| Oncology/cancer research | 90 | 94 | 94 | 91 | 91 | 94 | 101 | 110 |
| Ophthalmology | 73 | 72 | 69 | 57 | 56 | 55 | 58 | 63 |
| Otorhinolaryngology | 56 | 55 | 55 | 45 | 46 | 44 | 44 | 45 |
| Pediatrics | 105 | 103 | 95 | 86 | 86 | 84 | 85 | 100 |
| Preventive medicine/community health | 200 | 206 | 204 | 213 | 219 | 239 | 244 | 276 |
| Psychiatry | 101 | 101 | 99 | 84 | 81 | 81 | 75 | 83 |
| Pulmonary disease | 56 | 54 | 51 | 42 | 42 | 45 | 46 | 43 |
| Radiology | 116 | 118 | 112 | 98 | 97 | 100 | 106 | 110 |
| Surgery | 225 | 222 | 206 | 176 | 173 | 171 | 168 | 172 |
| Clinical medicine, nec | 392 | 398 | 385 | 346 | 352 | 402 | 391 | 437 |
| Other health | 988 | 1,013 | 1,016 | 1,002 | 1,001 | 998 | 917 | 906 |
| Dental sciences | 76 | 79 | 79 | 86 | 93 | 92 | 98 | 100 |
| Nursing | 191 | 197 | 197 | 178 | 178 | 171 | 149 | 131 |
| Pharmaceutical sciences | 94 | 93 | 93 | 91 | 95 | 103 | 105 | 107 |
| Communication disorders sciences | 168 | 168 | 167 | 169 | 170 | 166 | 154 | 151 |
| Veterinary sciences | 72 | 79 | 79 | 73 | 86 | 84 | 86 | 96 |
| Other health, nec | 387 | 397 | 401 | 405 | 379 | 382 | 325 | 321 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] Includes organizational units at schools closed because of Hurricane Katrina.
[b] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; these data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; these data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; these data were reported under "civil engineering" in 2007old and previous years. See appendix A, "Technical Notes," for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-3. Science, engineering, and health organizational units in master's-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005[a] | 2006 | 2007old[b] | 2007new[b] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| All surveyed fields | 1,410 | 1,391 | 1,374 | 1,349 | 1,419 | 1,393 | 1,420 | 1,435 |
| Science and engineering | 1,153 | 1,133 | 1,120 | 1,132 | 1,206 | 1,208 | 1,246 | 1,272 |
| Science | 969 | 960 | 942 | 962 | 1,032 | 1,029 | 1,058 | 1,090 |
| Agricultural sciences | 33 | 35 | 32 | 39 | 39 | 43 | 45 | 46 |
| Biological sciences | 157 | 157 | 159 | 162 | 163 | 159 | 167 | 181 |
| Anatomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biochemistry | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 |
| Biology | 106 | 105 | 104 | 101 | 102 | 101 | 102 | 105 |
| Biometry/epidemiology | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 |
| Biophysics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 0 |
| Cell/molecular biology | 3 | 4 | 5 | 4 | 4 | 5 | 6 | 7 |
| Ecology | 6 | 6 | 6 | 7 | 5 | 3 | 3 | 4 |
| Entomology/parasitology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Genetics | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 |
| Microbiology/immunology/virology | 4 | 5 | 3 | 3 | 3 | 3 | 4 | 4 |
| Nutrition | 10 | 10 | 10 | 14 | 14 | 13 | 13 | 16 |
| Pathology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Pharmacology | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Physiology | 4 | 4 | 5 | 5 | 5 | 6 | 5 | 4 |
| Zoology | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Biological sciences, nec | 15 | 14 | 17 | 19 | 21 | 18 | 22 | 29 |
| Communication[b] | ne | ne | ne | ne | 31 | 39 | 43 | 46 |
| Computer sciences | 98 | 99 | 101 | 102 | 100 | 104 | 112 | 113 |
| Earth, atmospheric, and ocean sciences | 56 | 56 | 55 | 55 | 53 | 52 | 52 | 50 |
| Atmospheric sciences | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Geosciences | 27 | 27 | 25 | 25 | 27 | 29 | 27 | 28 |
| Ocean sciences | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| Earth/atmospheric/ocean sciences, nec | 23 | 23 | 24 | 23 | 19 | 16 | 18 | 15 |
| Family and consumer sciences/human sciences[b] | ne | ne | ne | ne | 12 | 13 | 15 | 14 |
| Mathematical sciences | 77 | 76 | 75 | 75 | 75 | 72 | 73 | 78 |
| Mathematics/applied mathematics | 74 | 73 | 72 | 72 | 72 | 69 | 68 | 72 |
| Statistics | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 |
| Multidisciplinary/interdisciplinary studies[b] | ne | ne | ne | ne | 40 | 43 | 46 | 47 |
| Neuroscience[b] | na | na | na | na | 1 | 1 | 2 | 1 |
| Physical sciences | 71 | 73 | 70 | 74 | 72 | 70 | 69 | 72 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Chemistry | 47 | 49 | 46 | 46 | 46 | 45 | 44 | 49 |
| Physics | 17 | 17 | 17 | 20 | 19 | 19 | 20 | 17 |
| Physical sciences, nec | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 6 |
| Psychology | 204 | 205 | 199 | 199 | 197 | 192 | 186 | 181 |
| Clinical psychology | 32 | 33 | 31 | 34 | 31 | 35 | 32 | 32 |
| Psychology, general | 71 | 69 | 67 | 65 | 65 | 64 | 60 | 58 |
| Psychology, nec | 101 | 103 | 101 | 100 | 101 | 93 | 94 | 91 |
| Social sciences | 273 | 259 | 251 | 256 | 249 | 241 | 248 | 261 |
| Agricultural economics | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Anthropology (cultural/social) | 13 | 12 | 12 | 13 | 13 | 14 | 14 | 15 |
| Economics | 24 | 21 | 20 | 20 | 20 | 20 | 21 | 21 |
| Geography | 23 | 22 | 21 | 23 | 23 | 23 | 22 | 23 |
| History and philosophy of science | 8 | 7 | 6 | 6 | 6 | 5 | 4 | 4 |
| Linguistics | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Political science/public administration | 95 | 92 | 87 | 81 | 80 | 74 | 80 | 84 |
| Sociology | 34 | 33 | 33 | 30 | 29 | 29 | 30 | 29 |

TABLE A-3. Science, engineering, and health organizational units in master's-granting institutions, by detailed field: 2004–10

| Field | 2004 | 2005[a] | 2006 | 2007old[b] | 2007new[b] | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|
| Sociology/anthropology | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Social sciences, nec | 68 | 63 | 63 | 74 | 69 | 66 | 68 | 76 |
| Engineering | 184 | 173 | 178 | 170 | 174 | 179 | 188 | 182 |
| Aerospace engineering | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| Agricultural engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Architecture[b] | na | na | na | na | 2 | 3 | 3 | 3 |
| Biomedical engineering | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 2 |
| Chemical engineering | 6 | 6 | 6 | 5 | 5 | 5 | 7 | 7 |
| Civil engineering[b] | 28 | 27 | 27 | 30 | 29 | 31 | 32 | 32 |
| Electrical engineering | 46 | 42 | 44 | 41 | 43 | 46 | 50 | 47 |
| Engineering science/engineering physics | 4 | 3 | 3 | 4 | 5 | 6 | 5 | 4 |
| Industrial/manufacturing engineering | 33 | 32 | 34 | 30 | 31 | 30 | 31 | 32 |
| Mechanical engineering | 25 | 23 | 24 | 21 | 21 | 24 | 26 | 25 |
| Metallurgical/materials engineering | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| Mining engineering | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nuclear engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Petroleum engineering | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Engineering, nec | 31 | 29 | 29 | 28 | 27 | 25 | 25 | 23 |
| Health | 257 | 258 | 254 | 217 | 213 | 185 | 174 | 163 |
| Clinical medicine | 24 | 24 | 24 | 31 | 31 | 28 | 27 | 28 |
| Anesthesiology | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 2 |
| Cardiology | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| Endocrinology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gastroenterology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hematology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Neurology[b] | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| Obstetrics/gynecology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oncology/cancer research | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| Ophthalmology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Otorhinolaryngology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pediatrics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preventive medicine/community health | 11 | 12 | 12 | 17 | 20 | 19 | 23 | 24 |
| Psychiatry | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulmonary disease | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radiology | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Surgery | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clinical medicine, nec | 7 | 6 | 6 | 8 | 6 | 4 | 0 | 0 |
| Other health | 233 | 234 | 230 | 186 | 182 | 157 | 147 | 135 |
| Dental sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nursing | 80 | 83 | 83 | 57 | 57 | 49 | 37 | 26 |
| Pharmaceutical sciences | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 3 |
| Communication disorders sciences | 57 | 55 | 54 | 57 | 57 | 52 | 53 | 54 |
| Veterinary sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other health, nec | 95 | 95 | 92 | 71 | 67 | 54 | 54 | 52 |

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] Includes organizational units at schools closed because of Hurricane Katrina.
[b] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; these data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; these data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; these data were reported under "civil engineering" in 2007old and previous years. See appendix A, "Technical Notes," for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-4. Response rates for science, engineering, and health organizational units: 1975–2010

| Year | Total | Complete response | | Partial response | | Nonresponse | |
|---|---|---|---|---|---|---|---|
| | | Number | Percent | Number | Percent | Number | Percent |
| 1975[a] | 9,162 | 8,998 | 98.2 | NA | NA | 164 | 1.8 |
| 1976 | 9,275 | 9,148 | 98.6 | NA | NA | 127 | 1.4 |
| 1977 | 9,513 | 9,432 | 99.1 | NA | NA | 81 | 0.9 |
| 1978[b] | 8,242 | 8,077 | 98.0 | NA | NA | 165 | 2.0 |
| 1979 | 9,796 | 9,446 | 96.4 | NA | NA | 350 | 3.6 |
| 1980 | 9,930 | 9,593 | 96.6 | NA | NA | 337 | 3.4 |
| 1981 | 9,917 | 8,594 | 86.7 | 613 | 6.2 | 710 | 7.2 |
| 1982 | 9,776 | 8,104 | 82.9 | 744 | 7.6 | 928 | 9.5 |
| 1983 | 9,663 | 8,070 | 83.5 | 816 | 8.4 | 777 | 8.0 |
| 1984 | 8,748 | 7,490 | 85.6 | 643 | 7.4 | 615 | 7.0 |
| 1985 | 9,025 | 7,818 | 86.6 | 672 | 7.4 | 535 | 5.9 |
| 1986 | 9,097 | 7,817 | 85.9 | 779 | 8.6 | 501 | 5.5 |
| 1987 | 9,254 | 8,030 | 86.8 | 715 | 7.7 | 509 | 5.5 |
| 1988 | 10,295 | 8,812 | 85.6 | 970 | 9.4 | 513 | 5.0 |
| 1989 | 10,318 | 8,908 | 86.3 | 891 | 8.6 | 519 | 5.0 |
| 1990 | 10,483 | 8,884 | 84.7 | 1,053 | 10.0 | 546 | 5.2 |
| 1991 | 10,705 | 9,052 | 84.6 | 1,186 | 11.1 | 467 | 4.4 |
| 1992 | 10,936 | 9,066 | 82.9 | 1,538 | 14.1 | 332 | 3.0 |
| 1993 | 11,146 | 9,156 | 82.1 | 1,555 | 14.0 | 435 | 3.9 |
| 1994 | 11,411 | 8,863 | 77.7 | 2,109 | 18.5 | 439 | 3.8 |
| 1995 | 11,598 | 9,514 | 82.0 | 1,730 | 14.9 | 354 | 3.1 |
| 1996 | 11,592 | 9,851 | 85.0 | 1,522 | 13.1 | 219 | 1.9 |
| 1997 | 11,597 | 9,720 | 83.8 | 1,665 | 14.4 | 212 | 1.8 |
| 1998 | 11,718 | 9,822 | 83.8 | 1,706 | 14.6 | 190 | 1.6 |
| 1999 | 11,833 | 9,396 | 79.4 | 2,289 | 19.3 | 148 | 1.3 |
| 2000 | 11,899 | 9,818 | 82.5 | 1,965 | 16.5 | 116 | 1.0 |
| 2001 | 11,967 | 10,121 | 84.6 | 1,731 | 14.5 | 115 | 1.0 |
| 2002 | 12,126 | 10,434 | 86.0 | 1,567 | 12.9 | 125 | 1.0 |
| 2003 | 12,261 | 10,343 | 84.4 | 1,709 | 13.9 | 209 | 1.7 |
| 2004[c] | 12,240 | 10,426 | 85.2 | 1,609 | 13.1 | 205 | 1.7 |
| 2004[d] | 12,240 | 10,524 | 86.0 | 1,474 | 12.0 | 242 | 2.0 |
| 2005[d] | 12,396 | 10,783 | 87.0 | 1,270 | 10.2 | 343 | 2.8 |
| 2006[d] | 12,320 | 10,814 | 87.8 | 1,177 | 9.6 | 329 | 2.7 |
| 2007[e] | 12,629 | 11,020 | 87.3 | 1,290 | 10.2 | 319 | 2.5 |
| 2008 | 13,166 | 11,574 | 87.9 | 1,436 | 10.9 | 156 | 1.2 |
| 2009 | 13,285 | 11,709 | 88.1 | 1,478 | 11.1 | 98 | 0.7 |
| 2010 | 13,711 | 11,703 | 85.4 | 1,880 | 13.7 | 128 | 0.9 |

NA = not available; organizational units providing partial responses are included in complete response column prior to 1981 and reported separately beginning in 1981.

[a] 1976 survey also collected 1975 data from master's-granting institutions.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] Calculated using response-rate formula used through 2003. See appendix A, "Technical Notes."

[d] Calculated using response-rate formula used from 2004 to 2006. Schools closed in 2005 because of Hurricane Katrina were counted as nonrespondents.

[e] Calculated using response-rate formula implemented in 2007. See appendix A, "Technical Notes."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-5. Imputation for nonresponse in doctorate-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

| Year and field | Organizational units in universe | Total in survey | | | Number imputed | | | Imputation rate (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate |
| Fall 2010, all fields | 12,276 | 433,252 | 142,533 | 63,305 | 6,613 | 1,749 | 2,969 | 1.5 | 1.2 | 4.7 |
| Agricultural sciences | 445 | 10,505 | 4,056 | 1,189 | 18 | 0 | 19 | 0.2 | 0.0 | 1.6 |
| Biological sciences | 2,279 | 60,028 | 9,494 | 21,489 | 801 | 69 | 1,026 | 1.3 | 0.7 | 4.8 |
| Communication | 167 | 5,588 | 2,631 | 60 | 53 | 67 | 0 | 0.9 | 2.5 | 0.0 |
| Computer sciences | 439 | 30,080 | 15,780 | 746 | 1,195 | 538 | 23 | 4.0 | 3.4 | 3.1 |
| Earth, atmospheric, and ocean sciences | 407 | 11,868 | 2,888 | 1,758 | 318 | 99 | 47 | 2.7 | 3.4 | 2.7 |
| Family and consumer sciences/human sciences | 87 | 2,118 | 1,373 | 30 | 0 | 0 | 1 | 0.0 | 0.0 | 3.3 |
| Mathematical sciences | 450 | 16,917 | 4,413 | 752 | 224 | 24 | 20 | 1.3 | 0.5 | 2.7 |
| Multidisciplinary/interdisciplinary studies | 302 | 4,482 | 2,260 | 763 | 0 | 0 | 2 | 0.0 | 0.0 | 0.3 |
| Neuroscience | 107 | 2,682 | 116 | 817 | 28 | 0 | 20 | 1.0 | 0.0 | 2.4 |
| Physical sciences | 664 | 34,280 | 3,591 | 7,677 | 422 | 16 | 330 | 1.2 | 0.4 | 4.3 |
| Psychology | 657 | 33,566 | 11,680 | 1,072 | 544 | 84 | 28 | 1.6 | 0.7 | 2.6 |
| Social sciences | 1,657 | 67,836 | 28,080 | 644 | 617 | 88 | 8 | 0.9 | 0.3 | 1.2 |
| Engineering | 1,821 | 106,434 | 35,368 | 6,950 | 1,633 | 586 | 386 | 1.5 | 1.7 | 5.6 |
| Health fields | 2,794 | 46,868 | 20,803 | 19,358 | 760 | 178 | 1,059 | 1.6 | 0.9 | 5.5 |
| Fall 2009, all fields | 11,865 | 428,856 | 145,027 | 57,714 | 5,209 | 2,396 | 1,066 | 1.2 | 1.7 | 1.8 |
| Agricultural sciences | 453 | 10,246 | 3,864 | 1,080 | 0 | 0 | 11 | 0.0 | 0.0 | 1.0 |
| Biological sciences | 2,227 | 59,235 | 9,345 | 20,125 | 628 | 164 | 307 | 1.1 | 1.8 | 1.5 |
| Communication | 156 | 5,429 | 2,522 | 38 | 23 | 2 | 0 | 0.4 | 0.1 | 0.0 |
| Computer sciences | 422 | 29,669 | 15,924 | 591 | 695 | 465 | 18 | 2.3 | 2.9 | 3.0 |
| Earth, atmospheric, and ocean sciences | 388 | 11,211 | 2,731 | 1,420 | 177 | 108 | 34 | 1.6 | 4.0 | 2.4 |
| Family and consumer sciences/human sciences | 81 | 1,903 | 1,181 | 22 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Mathematical sciences | 450 | 16,328 | 4,199 | 737 | 10 | 17 | 2 | 0.1 | 0.4 | 0.3 |
| Multidisciplinary/interdisciplinary studies | 226 | 3,420 | 2,091 | 458 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Neuroscience | 84 | 2,261 | 55 | 642 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Physical sciences | 640 | 33,671 | 3,427 | 7,424 | 53 | 28 | 106 | 0.2 | 0.8 | 1.4 |
| Psychology | 662 | 34,585 | 11,979 | 1,209 | 358 | 109 | 121 | 1.0 | 0.9 | 10.0 |
| Social sciences | 1,646 | 67,116 | 28,109 | 560 | 1,255 | 304 | 3 | 1.9 | 1.1 | 0.5 |
| Engineering | 1,756 | 101,495 | 35,227 | 6,411 | 1,358 | 582 | 121 | 1.3 | 1.7 | 1.9 |
| Health fields | 2,674 | 52,287 | 24,373 | 16,997 | 652 | 617 | 343 | 1.2 | 2.5 | 2.0 |
| Fall 2008, all fields | 11,773 | 422,287 | 151,954 | 54,087 | 4,434 | 2,034 | 1,560 | 1.0 | 1.3 | 2.9 |
| Agricultural sciences | 438 | 9,564 | 3,535 | 1,146 | 11 | 7 | 22 | 0.1 | 0.2 | 1.9 |
| Biological sciences | 2,175 | 58,501 | 9,698 | 19,794 | 450 | 88 | 826 | 0.8 | 0.9 | 4.2 |
| Communication | 142 | 4,642 | 2,388 | 32 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Computer sciences | 417 | 28,850 | 15,321 | 490 | 633 | 409 | 10 | 2.2 | 2.7 | 2.0 |
| Earth, atmospheric, and ocean sciences | 387 | 10,874 | 2,789 | 1,335 | 177 | 73 | 30 | 1.6 | 2.6 | 2.2 |
| Family and consumer sciences/human sciences | 71 | 1,754 | 1,253 | 19 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Mathematical sciences | 447 | 15,636 | 4,086 | 723 | 9 | 5 | 5 | 0.1 | 0.1 | 0.7 |
| Multidisciplinary/interdisciplinary studies | 191 | 2,818 | 1,868 | 348 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Neuroscience | 63 | 1,908 | 72 | 343 | 0 | 0 | 14 | 0.0 | 0.0 | 4.1 |
| Physical sciences | 627 | 32,747 | 3,573 | 6,872 | 65 | 13 | 135 | 0.2 | 0.4 | 2.0 |

TABLE A-5. Imputation for nonresponse in doctorate-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

| Year and field | Organizational units in universe | Total in survey | | | Number imputed | | | Imputation rate (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate |
| Psychology | 685 | 35,866 | 12,561 | 1,070 | 648 | 235 | 141 | 1.8 | 1.9 | 13.2 |
| Social sciences | 1,629 | 64,107 | 27,577 | 506 | 273 | 64 | 11 | 0.4 | 0.2 | 2.2 |
| Engineering | 1,736 | 95,077 | 35,646 | 5,457 | 1,229 | 915 | 76 | 1.3 | 2.6 | 1.4 |
| Health fields | 2,765 | 59,943 | 31,587 | 15,952 | 939 | 225 | 290 | 1.6 | 0.7 | 1.8 |

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-6. Imputation for nonresponse in master's-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

| Year and field | Organizational units in universe | Total in survey | | | Number imputed | | | Imputation rate (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate |
| Fall 2010, all fields | 1,435 | 27,933 | 28,934 | 110 | 160 | 93 | 4 | 0.6 | 0.3 | 3.6 |
| Agricultural sciences | 46 | 582 | 513 | 6 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Biological sciences | 181 | 2,742 | 2,664 | 48 | 14 | 36 | 0 | 0.5 | 1.4 | 0.0 |
| Communication | 46 | 686 | 920 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Computer sciences | 113 | 2,702 | 2,984 | 2 | 9 | 6 | 0 | 0.3 | 0.2 | 0.0 |
| Earth, atmospheric, and ocean sciences | 50 | 450 | 449 | 2 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Family and consumer sciences/human sciences | 14 | 259 | 441 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Mathematical sciences | 78 | 689 | 1,117 | 4 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Multidisciplinary/interdisciplinary studies | 47 | 581 | 621 | 2 | 0 | 0 | 1 | 0.0 | 0.0 | 50.0 |
| Neuroscience | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Physical sciences | 72 | 576 | 526 | 26 | 3 | 0 | 3 | 0.5 | 0.0 | 11.5 |
| Psychology | 181 | 5,005 | 3,168 | 5 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Social sciences | 261 | 5,093 | 8,211 | 2 | 19 | 7 | 0 | 0.4 | 0.1 | 0.0 |
| Engineering | 182 | 3,358 | 4,081 | 6 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Health fields | 163 | 5,210 | 3,239 | 6 | 115 | 44 | 0 | 2.2 | 1.4 | 0.0 |
| Fall 2009, all fields | 1,420 | 27,259 | 30,503 | 91 | 130 | 64 | 11 | 0.5 | 0.2 | 12.1 |
| Agricultural sciences | 45 | 577 | 513 | 3 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Biological sciences | 167 | 2,231 | 2,493 | 34 | 13 | 35 | 3 | 0.6 | 1.4 | 8.8 |
| Communication | 43 | 662 | 805 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Computer sciences | 112 | 2,529 | 3,039 | 3 | 9 | 6 | 0 | 0.4 | 0.2 | 0.0 |
| Earth, atmospheric, and ocean sciences | 52 | 378 | 519 | 4 | 0 | 0 | 2 | 0.0 | 0.0 | 50.0 |
| Family and consumer sciences/human sciences | 15 | 265 | 445 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Mathematical sciences | 73 | 557 | 1,142 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Multidisciplinary/interdisciplinary studies | 46 | 537 | 509 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Neuroscience | 2 | 0 | 40 | 3 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Physical sciences | 69 | 510 | 541 | 23 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Psychology | 186 | 5,788 | 3,832 | 10 | 0 | 0 | 6 | 0.0 | 0.0 | 60.0 |
| Social sciences | 248 | 4,453 | 8,142 | 1 | 18 | 7 | 0 | 0.4 | 0.1 | 0.0 |
| Engineering | 188 | 3,442 | 4,513 | 5 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Health fields | 174 | 5,330 | 3,970 | 4 | 90 | 16 | 0 | 1.7 | 0.4 | 0.0 |
| Fall 2008, all fields | 1,393 | 27,326 | 29,922 | 77 | 831 | 716 | 8 | 3.0 | 2.4 | 10.4 |
| Agricultural sciences | 43 | 568 | 486 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Biological sciences | 159 | 2,161 | 2,306 | 33 | 21 | 43 | 3 | 1.0 | 1.9 | 9.1 |
| Communication | 39 | 582 | 832 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Computer sciences | 104 | 2,488 | 2,894 | 3 | 56 | 40 | 0 | 2.3 | 1.4 | 0.0 |
| Earth, atmospheric, and ocean sciences | 52 | 297 | 429 | 4 | 9 | 0 | 1 | 3.0 | 0.0 | 25.0 |
| Family and consumer sciences/human sciences | 13 | 182 | 360 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Mathematical sciences | 72 | 605 | 1,073 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Multidisciplinary/interdisciplinary studies | 43 | 292 | 581 | 0 | 7 | 1 | 0 | 2.4 | 0.2 | 0.0 |
| Neuroscience | 1 | 1 | 31 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Physical sciences | 70 | 507 | 492 | 13 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Psychology | 192 | 6,237 | 4,327 | 7 | 68 | 17 | 0 | 1.1 | 0.4 | 0.0 |

TABLE A-6. Imputation for nonresponse in master's-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

| Year and field | Organizational units in universe | Total in survey | | | Number imputed | | | Imputation rate (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate | Full-time student | Part-time student | Post-doctorate |
| Social sciences | 241 | 4,118 | 7,582 | 2 | 119 | 329 | 0 | 2.9 | 4.3 | 0.0 |
| Engineering | 179 | 3,178 | 3,955 | 5 | 33 | 40 | 0 | 1.0 | 1.0 | 0.0 |
| Health fields | 185 | 6,110 | 4,574 | 9 | 518 | 246 | 4 | 8.5 | 5.4 | 44.4 |

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-7. Imputation rates of full-time graduate students in science, engineering, and health fields, by source and mechanism of support: 2010

| Source of support | All sources | Federal | | | | | | | | Nonfederal | | | Self-support |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HHS | | | | | | | | | |
| | | DOD | DOE | NIH | Other | NASA | NSF | USDA | Other | Domestic | Foreign | Institutional | |
| All sources, all students | 1.5 | 13.0 | 2.2 | 7.3 | 11.8 | 12.5 | 6.6 | 4.1 | 6.2 | 10.4 | 4.7 | 8.4 | 11.1 |
| Fellowship | 8.7 | 9.9 | 2.0 | 6.1 | 14.1 | 13.1 | 8.1 | 1.9 | 8.0 | 12.4 | 5.2 | 8.8 | na |
| Research assistantship | 8.0 | 11.6 | 2.2 | 7.5 | 10.3 | 13.4 | 6.3 | 3.9 | 6.7 | 11.0 | 2.8 | 8.2 | na |
| Teaching assistantship | 8.3 | na | 2.5 | na | 1.9 | 4.9 | 9.7 | 6.9 | 1.5 | 11.5 | 39.6 | 8.3 | na |
| Traineeship | 7.3 | 3.5 | 0.0 | 6.6 | 18.0 | 0.0 | 6.1 | 42.1 | 6.4 | 7.8 | 15.5 | 6.3 | na |
| Other support | 10.8 | 21.9 | 3.2 | 8.7 | 0.6 | 0.0 | 4.2 | 3.7 | 3.8 | 6.6 | 4.7 | 9.2 | 11.1 |
| All sources, female students | 1.4 | 10.8 | 1.8 | 7.5 | 11.0 | 6.8 | 5.0 | 3.5 | 6.1 | 9.0 | 4.9 | 8.4 | 11.2 |

na = not applicable; question was not asked.

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/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-8. Imputation rates of graduate students in science, engineering, and health fields, by citizenship, ethnicity, race, enrollment status, and sex: 2010

| Citizenship and race/ethnicity | Part time | | | Full time | | | First-time, full-time enrolled | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| All graduate students | 1.1 | 1.9 | 1.3 | 1.5 | 1.9 | 1.4 | 2.0 | 2.1 | 2.5 |
| U.S. citizens and permanent residents | | | | | | | | | |
| Hispanic or Latino | 1.7 | 2.4 | 1.1 | 1.8 | 2.2 | 1.5 | 2.2 | 2.3 | 2.2 |
| Not Hispanic or Latino | | | | | | | | | |
| American Indian or Alaska Native | 1.2 | 1.0 | 1.3 | 1.8 | 1.9 | 1.6 | 1.4 | 1.7 | 1.4 |
| Asian | 2.1 | 2.2 | 2.1 | 2.1 | 2.5 | 1.8 | 2.9 | 2.7 | 3.1 |
| Black | 1.2 | 1.8 | 0.9 | 1.5 | 1.9 | 1.2 | 3.9 | 2.5 | 4.6 |
| Native Hawaiian or Other Pacific Islander | 3.6 | 7.4 | 0.4 | 2.9 | 4.1 | 2.0 | 2.7 | 5.7 | 0.7 |
| White | 1.8 | 2.1 | 1.5 | 2.0 | 2.4 | 1.5 | 2.5 | 2.3 | 2.6 |
| More than one race | 1.3 | 0.1 | 2.2 | 0.7 | 0.5 | 0.8 | 1.3 | 1.1 | 1.5 |
| Unknown ethnicity/race | 3.4 | 3.9 | 2.7 | 2.2 | 3.5 | 3.2 | 2.5 | 2.6 | 2.4 |
| Temporary visa holders | 2.1 | 1.9 | 2.4 | 1.8 | 1.9 | 1.8 | 2.3 | 2.3 | 2.4 |

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-9. Imputation rates of postdoctoral appointees and nonfaculty researchers in science, engineering, and health fields: 2010

| Status | Total | Men | Women |
|---|---|---|---|
| Postdoctoral appointees | 4.7 | 10.0 | 7.2 |
| Foreign appointees | 8.5 | 10.1 | 8.5 |
| Nonfaculty researchers | 5.9 | 6.6 | 6.7 |

NOTE: Data collection for postdoctoral appointees (postdoc) and other doctorate-holding nonfaculty researchers (NFRs) expanded considerably in 2010. Above counts were only items that were imputed using historical data; missing data for all other postdoc and NFR items were left as missing.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-10. Imputed full-time graduate students in science, engineering, and health fields, by source and mechanism of support: 2010

| Source of support | All sources | Federal | | | | | | | | Domestic | Foreign | Institutional | Self-support |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HHS | | | | | | | | | |
| | | DOD | DOE | NIH | Other | NASA | NSF | USDA | Other | | | | |
| All sources, all students | 6,773 | 1,203 | 120 | 2,004 | 266 | 308 | 1,543 | 125 | 802 | 2,312 | 198 | 14,924 | 19,015 |
| Fellowship | 3,477 | 62 | 6 | 128 | 28 | 45 | 332 | 2 | 145 | 353 | 61 | 2,314 | na |
| Research assistantship | 9,839 | 816 | 111 | 1,402 | 117 | 261 | 1,132 | 109 | 544 | 1,617 | 40 | 3,659 | na |
| Teaching assistantship | 6,950 | na | 2 | na | 2 | 2 | 34 | 4 | 8 | 136 | 61 | 6,698 | na |
| Traineeship | 905 | 4 | 0 | 380 | 118 | 0 | 35 | 8 | 32 | 41 | 25 | 262 | na |
| Other support | 21,896 | 321 | 1 | 94 | 1 | 0 | 10 | 2 | 75 | 194 | 62 | 2,014 | 19,017 |
| All sources, female students | 3,009 | 216 | 23 | 1,080 | 154 | 53 | 386 | 54 | 344 | 782 | 73 | 6,832 | 9,859 |

na = not applicable; question was not asked.

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/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-11. Imputed graduate students in science, engineering, and health fields, by citizenship, race/ethnicity, enrollment status, and sex: 2010

| Citizenship and race/ethnicity | Part time | | | Full time | | | First-time, full-time enrolled | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total[a] | Male | Female | Total[a] | Male | Female | Total[a] | Male | Female |
| All graduate students | 1,842 | 1,708 | 1,050 | 6,773 | 4,582 | 3,009 | 2,792 | 1,530 | 1,585 |
| U.S. citizens and permanent residents | | | | | | | | | |
| Hispanic or Latino | 193 | 128 | 65 | 391 | 211 | 180 | 148 | 70 | 81 |
| Not Hispanic or Latino | | | | | | | | | |
| American Indian or Alaska Native | 11 | 4 | 7 | 34 | 16 | 18 | 7 | 4 | 4 |
| Asian | 242 | 137 | 105 | 557 | 328 | 229 | 242 | 115 | 128 |
| Black or African American | 190 | 97 | 93 | 328 | 152 | 176 | 259 | 57 | 203 |
| Native Hawaiian or Other Pacific Islander | 18 | 17 | 1 | 25 | 15 | 10 | 6 | 5 | 1 |
| White | 1,663 | 1,002 | 661 | 4,089 | 2,520 | 1,569 | 1,530 | 704 | 836 |
| More than one race | 20 | 1 | 19 | 28 | 9 | 19 | 22 | 8 | 14 |
| Other or unknown ethnicity/race | 499 | 308 | 191 | 545 | 434 | 394 | 179 | 94 | 85 |
| Temporary visa holders | 463 | 274 | 189 | 2,718 | 1,851 | 997 | 997 | 622 | 375 |

[a] This table reports sum of counts imputed in each of these cells/variables. Because some units report totals without complete details, sum of imputed details will often be higher than related total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-12. Imputed postdoctoral appointees and nonfaculty researchers in science, engineering, and health fields: 2010

| Status | Total[a] | Men | Women |
|---|---|---|---|
| Postdoctoral appointees | 2,973 | 3,940 | 1,747 |
| Foreign appointees | 2,863 | 2,255 | 955 |
| Nonfaculty researchers | 1,242 | 847 | 556 |

[a] This table reports the sum of the counts imputed in each of these cells/variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

NOTE: Data collection for postdoctoral appointees (postdoc) and other doctorate-holding nonfaculty researchers (NFRs) expanded considerably in 2010. Above counts were only items that were imputed using historical data; missing data for all other postdoc and NFR items were left as missing.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

## Appendix B. Survey Materials

- Worksheet for Survey of Graduate Students and Postdoctorates in Science and Engineering: Fall 2010
- 2010 GSS Code List
- Crosswalk between 2010 GSS Codes and 2000 National Center for Education Statistics (NCES) Classification of Instructional Programs (CIP) Codes

# Worksheet for
# Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS)
# Fall 2010

National Science Foundation (NSF) & National Institutes of Health (NIH)

Dear Colleague,

This document provides a worksheet and instructions to help you compile your answers to the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). It is intended as an aid for use with the GSS Web survey. Please read page 2 for more information about preparing and submitting your information.

RTI International, the survey contractor for the GSS, provided the 2010 GSS survey materials to the individual selected as the School Coordinator for your school. The School Coordinator is responsible for monitoring your institution's responses to the survey, and will be in touch with you about completing and submitting your survey response to NSF. Responses are due on **February 28, 2011**.

The GSS, conducted since 1966, is an annual survey that provides information on the training of the future labor force in the science, engineering, and health fields. Your timely response helps us minimize the cost of follow-ups and ensures that we accurately represent your institution in national statistical tables.

We appreciate the time and effort you devote to providing this important information.

**If you have questions, please e-mail RTI at gss@rti.org or call RTI toll-free at 1-866-558-0781. Please submit the information on this worksheet via the Web survey at http://gss2010.org.**

Sincerely,

Lynda T. Carlson, PhD
Director
Division of Science Resources Statistics
National Science Foundation

Rodney Ulane, PhD
Director, Division of Scientific Programs
Office of the Director
National Institutes of Health

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This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary, and failure to provide some or all of the information will in no way adversely affect your institution. The average time required for questionnaire completion is 2.5 hours. Response burden comments should be directed to Suzanne Plimpton, Reports Clearance Officer, NSF, via e-mail at splimpto@nsf.gov.

Form approved
OMB No. 3145-0062
Expires 10/31/2011

W2009SC

**RTI International, Contractor for GSS**
3040 East Cornwallis Road, P.O. Box 12194, Research Triangle Park, NC 27709-2194 • gss@rti.org • toll-free: (866) 558-0781

# Survey Information

Welcome to the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). The GSS asks for counts of the following information by organizational unit (unit):

- **Graduate Students**
  - Part-time graduate students by demographics, including citizenship, ethnicity, race, and sex
  - Full-time graduate students by demographics, including citizenship, ethnicity, race, and sex
  - Full-time graduate students by financial support, including agency (e.g., NSF, NIH) and mechanism (e.g., training grant, fellowship)
- **Postdoctoral Researchers (Postdocs)**
  - By demographics, including citizenship, ethnicity, race, and sex
  - By financial support, including agency (e.g., NSF, NIH) and mechanism (e.g. training grant, fellowship)
  - By type of degree (professional, PhD, or PhD equivalent) and origin of degree (U.S. or foreign)
- **Other Doctorate-Holding Nonfaculty Researchers**
  - By sex and type of degree (professional, PhD, or PhD equivalent)

If you need additional copies of this worksheet, please visit the GSS Web survey site http://gss2010. to download additional copies.

For **Glossary** terms used in the GSS, please refer to the Glossary starting on page 11. Hovering the mouse pointer over the term will automatically bring up the definition in the GSS Web survey.

# Submissions

### Deadline

Submit the data to NSF by February 28, 2011.

### Online Submissions

This worksheet is designed to aid you in gathering information for entry in the GSS Web survey.

- Use the GSS Web survey to report and submit the information on this worksheet for each organizational unit identified by your School Coordinator.
- Access the GSS Web survey at http://gss2010.org using the ID and password you received by e-mail.
- If you’ve lost the ID and password sent by your School Coordinator or you have not yet received an ID and password, please contact the survey help desk toll-free at 866-558-0781, or e-mail us at gss@rti.org

### Paper Submissions

- If reporting online is not possible, your School Coordinator may ask you to provide your answers on this worksheet and return it to his or her office for submission to RTI.
- If your School Coordinator asks you to return your survey response directly by mail, please send it to RTI at the address listed on the bottom of the cover letter

**1**

**A. What is the name of this organizational unit?**

This information (provided by your School Coordinator) is automatically filled on the GSS Web survey pages.

**Organizational units** (~~u~~nits") include teaching units (departments or programs) and research units (research centers or health care facilities). This term replaces terms used previously: department, program, research center, health care facility.

**Important**

- Report clinical psychology separately from all other psychology department or programs.
- Report each engineering field (e.g., electrical engineering, mechanical engineering) separately.

Please contact your School Coordinator if you think more organizational units should be specified for your survey response. The School Coordinator will adjust the GSS Web survey accordingly.

**B. Who is the *primary contact* for your organizational unit, or the person assigned to complete this survey response?**

| | |
|---|---|
| Institution name | |
| First name | |
| Last name | |
| Title | |
| Telephone | |
| Telephone extension | |
| E-mail | |

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**C. Who is the *alternative contact* if the primary contact is not available?** Examples include your supervisor, the data preparer, or another coworker.

| | |
|---|---|
| First name | |
| Last name | |
| Title | |
| Telephone | |
| Telephone extension | |
| E-mail | |

**D. As of fall 2010, what is the highest graduate degree offered by this organizational unit?**

- ❑ PhD or equivalent, such as ScD or DEng (exclude EdD, MD, or other professional degrees) → **Continue with Question 2**
- ❑ Master's degree (exclude certificates) → **Continue with Question 2**
- ❑ No PhD or master's degree offered → **Skip to Question 5A**

❑ Check this box if categories left blank should NOT be counted as zeros.

**2** **How many graduate students were enrolled *part-time* for credit in this organizational unit in fall 2010 in each category below? Use your institution's definition of part-time.** (Full-time is collected in Question 3)

❑ Check this box if this unit had no eligible part-time graduate students, and then skip to Question 3

**Note**

- Count only students enrolled ***part-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit

**Include**

- Part-time students doing thesis or dissertation research
- Part-time students pursuing a master's, PhD, or equivalent degree such as an ScD or Deng
- Part-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Part-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

**Exclude**

- Graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

**Citizenship, Ethnicity, and Race**

- Count any student who is Hispanic/Latino, or Hispanic/Latino and any other race, in Row B. See the Glossary (p. 11) for full definitions of citizenship, ethnicity, and race categories.

| **Citizenship, ethnicity, and race of part-time students** (report students in whole numbers) | | **Part-time graduate students** | | |
|---|---|---|---|---|
| | | Male 1 | Female 2 | **Total[1] 3** |
| **Foreign nationals holding temporary visas, regardless of ethnicity or race** | A | | | |
| **U.S. citizens and permanent residents (non-U.S. citizens holding green cards)** | | | | |
| • Hispanic/Latino ethnicity (one or more races) | B | | | |
| • Non-Hispanic/Latino (one or more races) | | | | |
| One race, American Indian/Alaska Native | C | | | |
| One race, Asian | D | | | |
| One race, Black/African American | E | | | |
| One race, Native Hawaiian/Other Pacific Islander | F | | | |
| One race, White | G | | | |
| More than one race (non-Hispanic/Latino) | H | | | |
| • Ethnicity/race unknown or not stated | I | | | |
| **Total part-time students (sum Rows A–I)[1]** | J | | | |

**Please explain significant differences from the 2009 survey or provide other comments here.**

[1] Row and column totals are calculated automatically if you report on the GSS Web survey

❑ Check this box if categories left blank should NOT be counted as zeros.

**3** **How many graduate students were enrolled *full-time* for credit in this organizational unit in fall 2010 in each category below? Of these, how many full-time students were enrolled for the *first time*? Use your institution's definition of full-time.**

❑ Check this box if this unit had no eligible full-time graduate students, and then skip to Question **5A**

**Note**

- Count only students enrolled ***full-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit

**Include**

- Full-time students doing thesis or dissertation research
- Full-time students pursuing a master's, PhD, or equivalent degree, such as an ScD or Deng
- Full-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Full-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

**Exclude**

- Graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

**First-time enrollment for full-time students**

- First-time students are those enrolled for credit in a graduate-degree program in ***this unit*** for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at your institution or at another institution and students that already hold another graduate or professional degree.

**Citizenship, Ethnicity, and Race**

- Count any student who is Hispanic/Latino, or Hispanic/Latino and any other race, in Row B. See the Glossary (p. 11) for full definitions of citizenship, ethnicity, and race categories.

**Consistency checks:** Row J, Column 1 = Question 4, Row M, Column 7 (total full-time male graduate students)
Row J, Column 2 = Question 4, Row M, Column 8 (total full-time female graduate students)
Row J, Column 3 = Question 4, Row M, Column 6 (total full-time graduate students)

| **Citizenship, ethnicity, and race of full-time students** (report students in whole numbers) | | **Full-time graduate students** | | | | | |
|---|---|---|---|---|---|---|---|
| | | Total full-time | | | Of Col. 3 total, how many are first time? | | |
| | | Male 1 | Female 2 | **Total[1] 3** | Male 4 | Female 5 | **Total[1] 6** |
| **Foreign nationals holding temporary visas, regardless of ethnicity or race** | A | | | | | | |
| **U.S. citizens and permanent residents (non-U.S. citizens holding green cards)** | | | | | | | |
| • Hispanic/Latino ethnicity (one or more races) | B | | | | | | |
| • Non-Hispanic/Latino (one or more races) | | | | | | | |
| One race, American Indian/Alaska Native | C | | | | | | |
| One race, Asian | D | | | | | | |
| One race, Black/African American | E | | | | | | |
| One race, Native Hawaiian/Other Pacific Islander | F | | | | | | |
| One race, White | G | | | | | | |
| More than one race (non-Hispanic/Latino) | H | | | | | | |
| • Ethnicity/race unknown or not stated | I | | | | | | |
| **Total full-time students (sum Rows A–I)[1]** | J | | | | | | |

**Please explain significant differences from the 2009 survey or provide other comments here.**

[1] Row and column totals are calculated automatically if you report on the GSS Web survey

❑ Check this box if categories left blank should NOT be counted as zeros.

**4** **How many graduate students enrolled *full-time for credit* in this organizational unit in fall 2010 received their largest source of financial support from each category below? Report students by mechanism of support and by sex. Use your institution's definition of full-time.**

❑ Check this box if this unit had no eligible full-time graduate students, and then skip to Question **5A**

**Note**

- Count only students enrolled ***full-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit
- If a student receives support from two or more sources equally, select one to report as the primary source
- See the Glossary (p. 11) for definitions of terms used in Question 4

**Include**

- Full-time graduate students doing thesis or dissertation research
- Full-time students pursuing a master's, PhD, or equivalent degree, such as an ScD or Deng
- Full-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Full-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

**Exclude**

- Full-time graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

**Consistency checks:** Row M, Column 6 = Question 3, Row J, Column 3 (total full-time graduate students)
Row M, Column 7 = Question 3, Row J, Column 1 (total full-time male graduate students)
Row M, Column 8 = Question 3, Row J, Column 2 (total full-time female graduate students)

| **Largest source of financial support** (use all graduate academic support: tuition reimbursement, waivers, stipends, etc., to determine largest source) | **Full-time graduate students** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Largest mechanism of financial support** (report students in whole numbers) | | | | | | **Total by Sex** (must sum to total in Column 6) | |
| | Fellow-ships 1 | Trainee-ships 2 | Research assistant-ships 3 | Teaching assistant-ships 4 | Other support 5 | **Total[1] 6** | Male 7 | Female 8 |
| **Federal** (e.g., training grants from federal agencies; however, federal loans are reported in Row L) | | | | | | | | |
| • Department of Defense ..... A | | | | | | | | |
| • HHS-NIH Only ..... B | | | | | | | | |
| • HHS-Other than NIH..... C | | | | | | | | |
| • NSF ..... D | | | | | | | | |
| • Department of Agriculture..... E | | | | | | | | |
| • NASA..... F | | | | | | | | |
| • Department of Energy ..... G | | | | | | | | |
| • Other federal sources[2]..... H | | | | | | | | |
| **Nonfederal** (*Institutional* means the support from your institution: tuition reimbursement, waivers, stipends, etc.) | | | | | | | | |
| • Institutional, state/local government ..... I | | | | | | | | |
| • Other U.S. sources..... J | | | | | | | | |
| • Non-U.S. sources ..... K | | | | | | | | |
| **Self** (*Student's own resources* means the personal and family financial resources and federal and other loans) | | | | | | | | |
| • Student's own resources ..... L | Report under **Other Support** (and by **Sex**): | | | | | | | |
| **Total (sum Rows A–L)[1]**..... M | | | | | | | | |

**Please explain significant differences from the 2009 survey or provide other comments here.**

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.
[2] This also includes the Fulbright Program (State Department) and the GI Bill (Department of Veterans Affairs).

❑ Check this box if categories left blank should NOT be counted as zeros.

## 5A

**In fall 2010, how many postdocs did this organizational unit have in each category in the table below? Please do not count other doctorate-holding nonfaculty researchers.** (Information on other doctorate-holding nonfaculty researchers is collected in Question 5D.)

❑ Check this box if this unit had no postdocs.
❑ Check this box if this unit had postdocs for which you cannot report complete data.

- Count individuals in one and only one unit.
- Include clinical fellows if the primary purpose of the appointment is research training.
- Exclude postdocs with appointments in residency training programs.
- Count postdocs who are Hispanic/Latino, or Hispanic/Latino and any other race, in Row B only.
- Please use your institution's definition of postdoc. See the Glossary on page 11 for definitions of other terms used in Question 5A.

| **Citizenship, ethnicity, and race of postdocs** (report postdocs in whole numbers) | | Male 1 | Female 2 | **Total[1] 3** |
|---|---|---|---|---|
| **Foreign nationals holding temporary visas, regardless of ethnicity or race** | A | | | |
| **U.S. citizens and permanent residents (non-U.S. citizens holding green cards)** | | | | |
| • Hispanic/Latino ethnicity (one or more races) | B | | | |
| • Non-Hispanic/Latino (one or more races) | | | | |
| One race, American Indian/Alaska Native | C | | | |
| One race, Asian | D | | | |
| One race, Black/African American | E | | | |
| One race, Native Hawaiian/Other Pacific Islander | F | | | |
| One race, White | G | | | |
| More than one race (non-Hispanic/Latino) | H | | | |
| • Ethnicity/race unknown or not stated | I | | | |
| **Total postdocs (sum Rows A–I)[1]** | J | | | |

**Please provide any comments about your data here.**

[1] Row and column totals are calculated automatically if you report on the GSS Web survey.

❑ Check this box if categories left blank should NOT be counted as zeros.

**5B** **In this organizational unit in fall 2010, how many postdocs received their largest source of financial support from each category in the table below? Please do not count other doctorate-holding nonfaculty researchers.**

❑ Check this box if this unit had no postdocs.

❑ Check this box if this unit had postdocs for which you cannot report complete data.

- Count individuals in one and only one unit.
- Include clinical fellows if the primary purpose of the appointment is research training.
- Exclude postdocs with appointments in residency training programs.
- Count postdocs who are Hispanic/Latino, or Hispanic/Latino and any other race, in Row B only.
- Please use your institution's definition of postdoc. See the Glossary on page 11 for definitions of other terms used in Question 5B.

| **Largest source of financial support** | | **Largest mechanism of financial support** (report postdocs in whole numbers) | | | | |
|---|---|---|---|---|---|---|
| | | Fellowships 1 | Traineeships 2 | Research Grants 3 | Other Support 4 | **Total[1] 5** |
| **Federal** (e.g., training grants from federal sources) | | | | | | |
| • Department of Defense | A | | | | | |
| • HHS–NIH Only | B | | | | | |
| • HHS–Other than NIH | C | | | | | |
| • NSF | D | | | | | |
| • Department of Agriculture | E | | | | | |
| • NASA | F | | | | | |
| • Department of Energy | G | | | | | |
| • Other federal sources | H | | | | | |
| **Sub-total, Federal (sum Rows A–H)[1]** | I | | | | | |
| **Nonfederal** | | | | | | |
| • Institutional, state/local government | J | | | | | |
| • Other U.S. sources | K | | | | | |
| • Non-U.S. sources | L | | | | | |
| **Sub-total, Nonfederal (sum Rows J–L)[1]** | M | | | | | |
| **Personal resources** | N | Report under **Other Support** (and in **Total**): | | | | |
| **Unknown or not stated** | O | | | | | |
| **Total (sum Rows I, M, N, & O)[1]** | P | | | | | |
| **Total Postdocs, Men** | Q | | | | | |
| **Total Postdocs, Women** | R | | | | | |

**Please provide any comments about your data here.**

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

❑ Check this box if categories left blank should NOT be counted as zeros.

## 5C1

**Please report the number of postdocs in this organizational unit in fall 2010 by type of doctoral degree and by mechanism of support.**

| | | Fellowships 1 | Trainee-ships 2 | Research Grants 3 | Other Support 4 | **Total[1] 5** |
|---|---|---|---|---|---|---|
| Number of postdocs with a **professional degree** (MD, DVM, DO, DDS) ..... | A | | | | | |
| Number of postdocs with a **doctoral degree** (PhD, ScD, DEng) ..... | B | | | | | |
| Number of postdocs with **both professional and doctoral degree** (MD-PhD, DVM-PhD) .... | C | | | | | |
| Number of postdocs with doctoral **degree type unknown** ..... | D | | | | | |
| **Total Postdocs (Determined from question 5B)**[1] ..... | E | | | | | |

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

## 5C2

**Please report the number of postdocs in this organizational unit in fall 2010 by type of doctoral degree and by citizenship.**

| | | **Postdocs** | | |
|---|---|---|---|---|
| | | U.S. Citizens and permanent residents 1 | Foreign nationals with temporary visas 2 | **Total[1] 3** |
| Number of postdocs with a **professional degree** (MD, DVM, DO, DDS) ..... | A | | | |
| Number of postdocs with a **doctoral degree** (PhD, ScD, DEng) ..... | B | | | |
| Number of postdocs with **both professional and doctoral degree** (MD-PhD, DVM-PhD) ..... | C | | | |
| Number of postdocs with doctoral **degree type unknown** ..... | D | | | |
| **Total Postdocs (Determined from question 5A)**[1] ..... | E | | | |

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

**Please provide any comments about your data here.**

❑ Check this box if categories left blank should NOT be counted as zeros.

## 5C3

**Please report the number of postdocs in this organizational unit in fall 2010 by origin of doctoral degree.**

| | | |
|---|---|---|
| Number of postdocs who received their doctoral degree in the United States (including Puerto Rico, and the U.S. territories) | A | |
| Number of postdocs who received their doctoral degree in a foreign country | B | |
| Number of postdocs with origin of doctoral degree unknown | C | |
| **Total Postdocs (sum Rows A–C)**[1] | D | |

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

## 5D

**Please report the number of other doctorate-holding nonfaculty researchers in this organizational unit in fall 2010 by sex and type of degree. This includes individuals who are not considered postdocs or members of the faculty and who are primarily involved in research.**

| | | Nonfaculty Researchers | | |
|---|---|---|---|---|
| | | Men 1 | Women 2 | **Total**[1] **3** |
| Number of nonfaculty researchers with a **professional degree** (MD, DVM, DO, DDS) | A | | | |
| Number of nonfaculty researchers with a **doctoral degree** (PhD, ScD, DEng) | B | | | |
| Number of nonfaculty researchers with **both professional and doctoral degree** (MD-PhD, DVM-PhD) | C | | | |
| Number of nonfaculty researchers with doctoral **degree type unknown** | D | | | |
| **Total nonfaculty researchers (sum Rows A–D)**[1] | E | | | |

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

**Please provide any comments about your data here.**

# Glossary

**Citizenship**—Count individuals as either U.S. citizens and permanent residents, or as foreign nationals holding temporary visas. Do not count foreign individuals living outside the United States.

- **U.S. Citizens and Permanent Residents**—U.S. citizens, including those from Puerto Rico and the U.S. territories, and permanent residents holding green cards.
- **Foreign Nationals Holding Temporary Visas**—Individuals in the United States on temporary visas. Individuals who are native residents of Puerto Rico or a U.S. territory, or permanent residents holding green cards, should be included under U.S. citizens and permanent residents. Non U.S. citizens without temporary visas who reside outside the U.S. and who are enrolled in an on-line degree program at a U.S. institution should be excluded. Do not report foreign nationals by ethnicity or race.

**Department of Agriculture**—Financial support from the U.S. Department of Agriculture (USDA) includes research assistants working on projects financed out of agency formula funds, competitive research grants, and institutional fellowship and training grants.

**Department of Defense**—Financial support from the U.S. Department of Defense (DoD), including the Departments of the Army, Navy, and Air Force, as well as other programs within DoD.

**Department of Energy**—Financial support from U.S. Department of Energy (DOE) research grants, including those supported by grants at the DOE National Laboratories.

**Doctoral Degree (for Postdocs)**—Includes doctorates such as PhD, ScD, DSc, DEng, DESc, DES, DNSc, DPH, EdD, DA, DBA, DMA, DM, DSW, DDES, DPA, DPE, DCM, DHL, DIT, DME, DML, ThD, DFA, JSD, SJD, STD, JCD.

**Ethnicity**—The U.S. Office of Management and Budget defines ethnicity separately from race (please see separate entry for Race). In this survey, ethnicity refers to whether an individual is of Hispanic or Latino descent—a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Also see Hispanic/Latino ethnicity, one or more races.

**Federal Sources of Support**—Financial support provided by the federal agencies in Rows A–G. For graduate students, count students primarily supported by federally guaranteed student loans (student's own resources) as self-supported. See additional entries for the Department of Defense, the National Institutes of Health, the Health and Human Services, the National Science Foundation, the Department of Agriculture, and the Department of Energy. See Nonfederal Sources of Support.

**Fellowships**—A competitive award (often from a national competition) to a graduate student or a postdoc.

**First-Time Enrollment**—Graduate students enrolled for credit in a graduate-degree program in your organizational unit for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at your institution or at another institution. It may also include students that already hold another graduate or professional degree. Only count full-time, first-time students in these columns.

**Foreign Nationals Holding Temporary Visas**—Individuals in the United States on temporary visas. Individuals who are native residents of Puerto Rico or a U.S. territory, or permanent residents holding green cards, should be included under U.S. citizens and permanent residents. Non-U.S. citizens without temporary visas who reside outside the U.S. and who are enrolled in an on-line degree program at a U.S. institution should be excluded. Do not report foreign nationals by ethnicity or race.

**Full-Time Graduate Student**—Use your institution's policy and definition to count full-time students.

**GSS (Survey of Graduate Students and Postdoctorates in Science and Engineering)**—An annual survey collecting information about graduate enrollment, postdoctoral researchers, and doctorate-holding nonfaculty researchers in science, engineering, and selected health fields. Jointly sponsored by NSF and NIH, the GSS provides a comprehensive picture of the training of future scientists, engineers, and health professionals in U.S. graduate schools.

**Health and Human Services (HHS)**—Report financial support from the institutes or divisions of the National Institutes of Health (NIH) in Row B. Report support from all other components of the U.S. Department of Health and Human Services (HHS) under Row C. See HHS–National Institutes of Health (NIH) Only and HHS–Other than NIH.

**HHS–National Institutes of Health (NIH) Only**—Report financial support received from the following organizations within the National Institutes of Health (NIH):

- John E. Fogarty International Center
- National Cancer Institute
- National Center for Complementary and Alternative Medicine
- National Center on Minority Health and Health Disparities
- National Center for Research Resources
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Human Genome Research Institute
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- National Institute of Biomedical Imaging and Bioengineering
- National Institute of Child Health and Human Development
- National Institute of Dental and Craniofacial Research
- National Institute of Diabetes and Digestive and Kidney Diseases
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Mental Health
- National Institute of Neurological Disorders and Stroke
- National Institute of Nursing Research
- National Institute on Aging
- National Institute on Alcohol Abuse and Alcoholism
- National Institute on Deafness and Other Communication Disorders
- National Institute on Drug Abuse
- National Library of Medicine

**HHS–Other than NIH**—Other than NIH, the U.S. Department of Health and Human Services (HHS) includes the following organizations:

- Agency for Healthcare Research and Quality
- Centers for Disease Control and Prevention
- Health Resources and Services Administration
- National Institute for Occupational Safety and Health
- Substance Abuse and Mental Health Services Administration
- U.S. Food and Drug Administration

**Highest Degree Offered**—The highest degree granted (master's or PhD) by the unit.

**Hispanic/Latino Ethnicity, one or more races**—Only report ethnicity for U.S. citizens (including those from Puerto Rico and U.S. territories). All foreign nationals holding temporary visas should be reported in Row A. Include all individuals of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Count all individuals who are Hispanic/Latino or Hispanic/Latino and any other race(s) in this category.

**ID**—A unique identification assigned to each user for the purpose of logging into the GSS online data collection system. Also referred as User ID.

**Institutional, State/Local Government Support**—Financial support (such as stipends or tuition) provided by the institution or state or local governments. This category includes students receiving tuition waivers.

**Largest or Primary Source of Support**—The source of funds that provides the largest amount (highest percentage) of financial support for each graduate student or postdoc. When determining the largest source of support for graduate students, consider all graduate school academic expenses (tuition, fees, etc.). If a student or postdoc is supported by two or more equal sources of support, select one as the primary.

**Largest or Primary Mechanism of Support**—The mechanism of funding that provides the largest amount (highest percentage) of financial support for each graduate student or postdoc. If a student or postdoc is supported by two or more equal mechanisms of support, select one as the primary.

**National Aeronautics and Space Administration (NASA)**—Report individuals who receive financial aid from this agency.

**National Science Foundation (NSF)**—Financial support from the U.S. National Science Foundation (NSF) fellowships and traineeships, as well as support under NSF research grants.

**Nonfaculty Researchers**—All doctorate-holding researchers who (a) are not considered either postdoctoral researchers or members of the faculty and (b) are involved principally in science and engineering or health research activities. Also referred to as Other Doctorate-Holding Nonfaculty Researchers.

**Nonfederal Sources of Support**—Support from state and local government; support from **your** institution, such as tuition waivers and stipends; support from foreign sources, such as foreign governments, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

**Non-Hispanic/Latino ethnicity**—Count only individuals who are ***not*** of Hispanic or Latino descent in Rows C–I. Individuals who are Hispanic/Latino, or Hispanic/Latino and any other race should be counted in Row B.

- **One race, American Indian or Alaska Native**—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
- **One race, Asian**—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam
- **One race, Black or African American**—A person of only one race having origins in any of the black racial groups of Africa
- **One race, Native Hawaiian or Other Pacific Islander**—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands
- **One race, White**—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa
- **More than one race reported (non-Hispanic/Latino)**—A person reporting two or more of the race categories listed above. Individuals who report being Hispanic/Latino and one or more race, should be reported in Row B instead.

**Non-U.S. sources**—Funding from non-U.S. sources, including foreign governments, foreign companies, and specialized agencies of the United Nation.

**Organizational Unit (Unit)**—This term refers to the names of the organizational units where graduate students, postdoctoral researchers, and doctorate-holding nonfaculty researchers are enrolled and/or work. A unit can be a teaching unit, research unit, or both. Also see Research Unit and Teaching Unit.

**Other Doctorate-Holding Nonfaculty Researchers**—All doctorate-holding researchers who (a) are not considered either postdoctoral researchers or members of the faculty and (b) are involved principally in science and engineering or health research activities. Also referred to as Nonfaculty Researcher.

**Other Federal sources**—Financial support from U.S. federal agencies not listed elsewhere. Examples are the Fulbright program (State Department), the GI Bill (Department of Veterans Affairs) and various programs in the Department of Education.

**Other support**—All other mechanisms of support for graduate students or postdocs.

**Other U.S. sources**—Financial support from industrial firms, nonprofit institutions (e.g., independent research institutes, professional societies, philanthropic foundations), and all other sources of support originating within the United States. It does not include loans, family money, personal savings used by individuals supporting themselves, or federal or academic institutional sources of support.

**Part-Time Graduate Student**—Use your own institution's policy and definition to count part-time students.

**Password**—Used with the user ID for the purpose of logging into the GSS Web survey. The password may be changed by the user by clicking on "Change password" in the menu at the top of the screen. The new password must be at least 8 characters in length and include a combination of upper- and lowercase letters, numbers, and symbols. School Coordinators can resend password and ID information to unit respondents on the Send or Resend ID/Password screen. See User ID.

**Personal resources (for Postdocs)—**The personal and family financial resources, including federal and other loans.

**Postdoc Coordinator—**Individual responsible for submitting the postdoc portion of the survey to NSF.

**Postdoctoral Researcher or Postdoc**—The definition of a postdoc varies by institution. Please use your institution's definition of a postdoc. NSF defines a postdoc as meeting both of the following qualifications:

1. Holds a recent doctoral degree, generally awarded within the last 5–7 years, such as
   - PhD or equivalent (e.g., ScD or DEng) **or**
   - First professional degree in a medical or
   - related field (MD, DDS, DO, DVM) **or**
   - Foreign degree equivalent to a U.S. doctoral degree
2. Has a limited-term appointment, generally no more than 5–7 years,
   - Primarily for training in research or scholarship **and**
   - Working under the supervision of a senior scholar in a unit affiliated with your institution.

**Professional Degree (for Postdocs)**—PhD equivalent medical degrees, such as MD, DO, DVM, DDS, DNP, DPM, PharmD, PsyD, DMD, ND, DC, OD, DPT, AuD, OTD, DScPT.

**Puerto Rico and U.S. Territories**—U.S. territories include American Samoa, Guam, Federated States of Micronesia, the Northern Marianas, and the U.S. Virgin Islands.

**Race**—Only report race for U.S. citizens (including those from Puerto Rico and U.S. territories) and permanent residents. All foreign nationals holding temporary visas should be reported in Row A. The U.S. Office of Management and Budget defines race separately from ethnicity (please see entry for Ethnicity and Hispanic/Latino).The GSS survey uses the following definitions of race:

- **One race, American Indian or Alaska Native**—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
- **One race, Asian**—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam
- **One race, Black or African American**—A person of only one race having origins in any of the black racial groups of Africa
- **One race, Native Hawaiian or Other Pacific Islander**—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands
- **One race, White**—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa
- **More than one race reported (non-Hispanic/ Latino)**—Individuals reporting two or more of the race categories listed above. Individuals who report being Hispanic/Latino and one or more race, should be reported in Row B instead.

**Race/ethnicity unknown or not stated**—Use this category if neither the race nor the ethnicity of the individual is known. If the race is known, but the ethnicity is unknown, report the individual by race. If the individual is Hispanic or Latino but the race is unknown, report the individual as Hispanic/Latino.

**Research Assistantships**—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to research assistant activities.

**Research Grant**—A financial assistance award given to an organization or an individual postdoc that supports specific research goals.

**Research Unit**—Research centers, health care facilities, and other organizations at the academic institution that appoint postdoctoral researchers and/or employ doctorate-holding nonfaculty researchers. Also see Organizational Unit and Teaching Unit.

**School Coordinator**—Person responsible for completing the GSS for the entire school or a portion of the institution.

**Self-Support**—Report students primarily supported by loans (including federal loans) or personal or family financial contributions.

**Student's own resources**—The personal and family financial resources, and federal and other loans.

**Teaching Assistantships**—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to teaching assistant activities.

**Teaching Unit**—Departments or programs that grant graduate-level research-oriented degrees including master's or PhD or equivalent degrees (i.e., ScD, DEng). Do not include units that grant only professional degrees. Also see Research Unit and Organizational Unit.

**Traineeships**—A financial award given to a graduate student or a postdoc selected by the institution.

**Unit**—See Organizational Unit.

**Unit Respondent**—Person(s) responsible for reporting unit data to the School Coordinator.

**Unknown or not stated**—Use this category if the sources of financial support for the postdoc is unknown or cannot be determined.

**User ID**—A unique identification assigned to each user for the purpose of logging into the GSS online data collection system. Also referred to as ID.

**U.S. Citizens and Permanent Residents**—U.S. citizens, including those from Puerto Rico and the U.S. territories, and permanent residents holding green cards.

## THANK YOU

Please submit the information on this worksheet via the GSS Web survey at http://gss2010.org

or

Return your completed worksheet(s) to your School Coordinator in time to meet February 28, 2011 deadline

If your School Coordinator asks you to return your worksheet(s) directly by mail, please send to:

NSF-NIH Graduate Student Survey
c/o RTI International
3040 Cornwallis Rd, P.O. Box 12194
Research Triangle Park, NC 27709-2194

**Questions?**

Call Jamie Friedman toll-free at 1-866-558-0781
or e-mail us at gss@rti.org

**Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) Fall 2010**

National Science Foundation & National Institutes of Health

# 2010 GSS Code List
# Complete List of GSS Eligible Fields and Codes

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Do not include certificate programs or units that only award professional degrees, such as AuD, DDS, DN, DNP, DO, DPM, DPT, DScPT, JD, MD, ND, OD, OTD, PharmD, or PsyD.

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Agricultural Science Fields (see also 102 and 901)** | | | |
| Agricultural Economics | 901 | Natural Resource Economics | |
| Agricultural Sciences | 501 | Agricultural and Horticultural Plant Breeding<br>Agricultural Animal Breeding<br>Agriculture, Agriculture Operations and Related Sciences<br>Agronomy and Crop Science<br>Animal Health<br>Animal Nutrition<br>Animal Sciences<br>Dairy Science<br>Environmental Science<br>Environmental Studies<br>Fishing and Fisheries Sciences and Management<br>Food Science<br>Food Science and Technology<br>Food Technology and Processing<br>Forest Management/Forest Resources Management<br>Forest Resources Production and Management<br>Forest Sciences and Biology<br>Forestry | Horticultural Science<br>International Agriculture<br>Land Use Planning and Management/Development<br>Livestock Management<br>Natural Resources Management and Policy<br>Natural Resources/Conservation<br>Ornamental Horticulture<br>Plant Protection and Integrated Pest Management<br>Plant Sciences<br>Poultry Science<br>Range Science and Management<br>Soil Chemistry and Physics<br>Soil Microbiology<br>Soil Science and Agronomy<br>Soil Sciences<br>Urban Forestry<br>Water, Wetlands, and Marine Resources Management<br>Wildlife and Wildlands Science and Management |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Architecture Fields** | | | |
| Architecture | 940 | Landscape Architecture | |
| **Biological Science Fields** | | | |
| Anatomy | 601 | | |
| Biochemistry | 602 | Biochemistry/Biophysics and Molecular Biology | |
| Biology | 603 | Biological Sciences | |
| Biometry and Epidemiology | 604 | Bioinformatics<br>Biomathematics<br>Biometry/Biometrics | Biostatistics<br>Medical Informatics |
| Biophysics | 605 | | |
| Botany | 606 | Plant Biology<br>Plant Molecular Biology | Plant Pathology/Phytopathology<br>Plant Physiology |
| Cell and Molecular Biology | 607 | Cell Biology and Anatomy<br>Cell/Cellular and Molecular Biology<br>Cell/Cellular Biology and Histology<br>Developmental Biology and Embryology | Molecular Biochemistry<br>Molecular Biophysics<br>Neuroanatomy<br>Photobiology<br>Structural Biology |
| Ecology | 608 | | |
| Entomology and Parasitology | 609 | | |
| Genetics | 610 | Animal Genetics<br>Evolutionary Biology<br>Human/Medical Genetics | Microbial and Eukaryotic Genetics<br>Molecular Genetics<br>Plant Genetics |
| Microbiology, Immunology, and Virology | 611 | Medical Microbiology and Bacteriology<br>Mycology | |
| Neuroscience | 950 | | |
| Nutrition | 612 | Foods, Nutrition<br>Human Nutrition | Nutrition Science |
| Pathology | 613 | Experimental Pathology | |
| Pharmacology | 614 | Environmental Toxicology<br>Molecular Pharmacology<br>Molecular Toxicology | Neuropharmacology<br>Pharmacology and Toxicology<br>Toxicology |
| Physiology | 615 | Cell Physiology<br>Exercise Physiology<br>Molecular Physiology<br>Neurobiology and Neurophysiology | Oncology and Cancer Biology<br>Physiology, Pathology, and Related Sciences<br>Reproductive Biology<br>Vision Science/Physiological Optics |
| Zoology | 616 | Animal Behavior and Ethology<br>Animal Biology | Animal Physiology<br>Wildlife Biology |
| Biosciences, not elsewhere classified | 617 | Aquatic Biology/Limnology<br>Bioethics/Medical Ethics<br>Biological and Life Sciences, Other<br>Biomedical Sciences<br>Biotechnology<br>Conservation Biology | Ecology, Evolution, Systematics and Population Biology<br>Environmental Biology<br>Medical Illustration<br>Population Biology<br>Systematic Biology/Biological Systematics |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Communication Fields** | | | |
| Communication | 930 | Communication and Media Studies<br>Communication Studies/Speech Communication and Rhetoric<br>Digital Communication and Media/Multimedia | Health Communication<br>Mass Communication/Media Studies<br>Organizational Communication<br>Political Communication |
| **Computer Science Fields** | | | |
| Computer Science (exclude DCS) | 401 | Artificial Intelligence and Robotics<br>Computer and Information Sciences<br>Computer and Information Systems Security<br>Computer Graphics<br>Computer Systems Analysis/Analyst | Computer Systems Networking and Telecommunications<br>Data Modeling/Warehousing and Database Administration<br>Information Science/Studies<br>Information Technology<br>Management Information Systems<br>Management Science |
| **Earth, Atmospheric, and Ocean Science Fields** | | | |
| Atmospheric Sciences | 301 | Atmospheric Chemistry and Climatology | Atmospheric Physics and Dynamics<br>Meteorology |
| Geosciences | 302 | Geochemistry<br>Geochemistry and Petrology<br>Geology/Earth Science | Geophysics and Seismology<br>Hydrology and Water Resources Science<br>Paleontology |
| Ocean Sciences | 303 | Marine Biology and Biological Oceanography | Oceanography, Chemical and Physical |
| Earth, Atmospheric, and Ocean Sciences, not elsewhere classified | 304 | | |
| **Engineering Fields** | | | |
| Aerospace Engineering | 101 | Aeronautical Engineering | Astronautical Engineering |
| Agricultural Engineering | 102 | Bioengineering | Biological Engineering |
| Biomedical Engineering | 103 | Biomedical/Medical Engineering | Biomedical Technology/ Technician (exclude master's) |
| Chemical Engineering | 104 | Polymer/Plastics Engineering | Wood Science and Wood Products/Pulp and Paper Technology |
| Civil Engineering | 105 | Architectural Engineering<br>Environmental/Environmental Health Engineering<br>Geotechnical Engineering<br>Structural Engineering | Surveying Engineering<br>Transportation and Highway Engineering<br>Water Resources Engineering |
| Electrical Engineering | 106 | Communication Engineering<br>Computer Engineering<br>Computer Hardware Engineering | Computer Software Engineering<br>Electronics Engineering |
| Engineering Science & Physics | 107 | Engineering Physics | Engineering Science |
| Industrial/Manufacturing Engineering | 108 | Operations Research | Systems Engineering |
| Mechanical Engineering | 109 | Engineering Mechanics | |
| **Engineering Fields continued next page** | | | |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Engineering Fields – continued** | | | |
| Metallurgical and Materials Engineering | 110 | Ceramic Sciences and Engineering<br>Materials Science | Textile Science<br>Textile Sciences and Engineering |
| Mining Engineering | 111 | Geological/Geophysical Engineering<br>Mineral Engineering | |
| Nuclear Engineering | 112 | | |
| Petroleum Engineering | 113 | | |
| Engineering, not elsewhere classified | 114 | Construction Engineering<br>Forest Engineering<br>Naval Architecture and Marine Engineering | Ocean Engineering |
| **Family and Consumer Sciences/Human Sciences Fields** | | | |
| Family and Consumer Sciences/Human Sciences | 920 | Adult Development and Aging<br>Business Family and Consumer Sciences/Human Sciences<br>Child Development<br>Consumer Economics | Family Systems<br>Housing and Human Environments<br>Human Development and Family Studies |
| **Health Fields (see also GSS Code 103)** | | | |
| Anesthesiology | 701 | Nurse Anesthetist (exclude master's) | |
| Cardiology | 702 | Cardiovascular Science | Cardiovascular Diseases |
| Communication Disorders Sciences | 723 | Audiology/Audiologist and Hearing Sciences (exclude AuD)<br>Audiology/Audiologist and Speech Language Pathology/ Pathologist | Communication Disorders Sciences and Services, Other<br>Speech-Language Pathology/Pathologist |
| Dental Sciences | 718 | Advanced/Graduate Dentistry and Oral Sciences, Other (exclude DDS)<br>Dental Clinical Sciences, General<br>Dental Hygiene/Hygienist (exclude master's)<br>Dental Materials<br>Dental Public Health and Education | Endodontics/Endodontology<br>Oral Biology and Oral Pathology<br>Oral/Maxillofacial Surgery<br>Orthodontics/Orthodontology<br>Pediatric Dentistry/Pedodontics<br>Periodontics/Periodontology<br>Prosthodontics/Prosthodontology |
| Endocrinology | 704 | Pediatric Endocrinology | |
| Gastroenterology | 705 | | |
| Hematology | 706 | Pediatric Hematology | |
| Neurology | 707 | | |
| **Health Fields continued next page** | | | |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Health Fields (see also GSS Code 103) – continued** | | | |
| Nursing Science (research master's & PhD only) | 719 | | |
| Nursing (exclude master's & DNP) | 719 | Adult Health Nurse/Nursing (exclude master's)<br>Clinical Nurse Specialist (exclude master's)<br>Critical Care Nursing (exclude master's)<br>Family Practice Nurse/Nurse Practitioner (exclude master's)<br>Maternal/Child Health and Neonatal Nurse/Nursing (exclude master's)<br>Nurse Midwife/Nursing Midwifery (exclude master's)<br>Nursing – Registered Nurse Training (exclude master's)<br>Nursing Administration (exclude master's) | Nursing, Other (exclude master's)<br>Occupational and Environmental Health Nursing (exclude master's)<br>Pediatric Nurse/Nursing (exclude master's)<br>Perioperative/Operating Room and Surgical Nurse/Nursing (exclude master's)<br>Psychiatric/Mental Health Nurse/Nursing (exclude master's<br>Public Health/Community Nurse/Nursing (exclude master's) |
| Obstetrics and Gynecology | 708 | | |
| Oncology/Cancer Research | 703 | Pediatric Oncology | |
| Ophthalmology (exclude OD) | 709 | | |
| Otorhinolaryngology | 710 | | |
| Pediatrics | 711 | Prematurity & Newborn | |
| Pharmaceutical Sciences (exclude PharmD) | 720 | Clinical and Industrial Drug Development<br>Industrial and Physical Pharmacy and Cosmetic Sciences<br>Medicinal and Pharmaceutical Chemistry<br>Natural Products Chemistry and Pharmacognosy<br>Pharmaceutics and Drug Design | Pharmacoeconomics/ Pharmaceutical Economics<br>Pharmacy Administration/Policy/ Regulatory Affairs (exclude master's)<br>Pharmacy, Pharmaceutical Sciences, and Administration, Other (exclude master's) |
| Preventive Medicine and Community Health | 712 | Environmental Health<br>Health Services/Allied Health/Health Sciences<br>Health/Medical Physics<br>International Public Health/ International Health | Maternal and Child Health<br>Occupational Health and Industrial Hygiene<br>Public Health Education and Promotion<br>Public Health<br>Public Health Medicine |
| Psychiatry | 713 | Behavioral Medicine (clinical) | Child Psychiatry |
| Pulmonary Disease | 714 | | |
| Radiology | 715 | Radiation Biology/Radiobiology<br>Radiation Oncology/Therapeutic Radiology | Radiation Protection/Health Physics Technician |
| Surgery | 716 | Orthopedics/Orthopedic Surgery | |
| **Health Fields continued next page** | | | |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Health Fields (see also GSS Code 103) – continued** | | | |
| Veterinary Sciences (exclude DVM) | 721 | Comparative and Laboratory Animal Medicine<br>Large Animal/Food Animal & Equine Surgery/Medicine<br>Small/Companion Animal Surgery and Medicine<br>Veterinary Anatomy<br>Veterinary Biomedical and Clinical Sciences<br>Veterinary Biomedicine and Clinical Sciences | Veterinary Infectious Diseases<br>Veterinary Medicine<br>Veterinary Microbiology and Immunobiology<br>Veterinary Pathology and Pathobiology<br>Veterinary Physiology<br>Veterinary Preventive Med Epidemiology/Public Hlth<br>Veterinary Toxicology and Pharmacology |
| Clinical Medicine, not elsewhere classified | 717 | Aerospace Medicine<br>Allergy<br>Clinical Laboratory Medicine<br>Clinical Laboratory Science/Medical Technology/ Technologist<br>Clinical/Medical Laboratory Science and Allied Professions, Other (exclude master's)<br>Complementary and Alternative Medicine<br>Connective Tissue Diseases<br>Critical Care Medicine<br>Dermatology<br>Diabetes<br>Emergency Medicine | Family Medicine<br>Infectious Diseases<br>Internal Medicine<br>Gene Therapy<br>HIV/AIDS<br>Liver Diseases<br>Medical Scientist (exclude MD)<br>Metabolic diseases<br>Nephrology<br>Neurology/Neurosurgery<br>Occupational Medicine<br>Palliative Care<br>Physical Medicine and Rehabilitation/Physiatry<br>Trauma<br>Urology |
| Health-Related, not elsewhere classified | 722 | Assistive/Augmentative Technology and Rehabilitation Engineering<br>Athletic Training/Trainer - Sports Medicine<br>Exercise Science/Physiology and Movement Studies | Health Professions and Related Clinical Sciences, Other (exclude master's)<br>Occupational Therapy/Therapist (exclude master's and OTD)<br>Physical Therapy/Therapist (exclude master's and DPT) |
| **Interdisciplinary –** see Multidisciplinary/Interdisciplinary Studies on page 8 | | | |
| **Mathematical Science Fields** | | | |
| Mathematics and Applied Mathematics | 402 | Algebra and Number Theory<br>Analysis and Functional Analysis<br>Computational Mathematics | Geometry/Geometric Analysis<br>Topology and Foundations |
| Statistics | 403 | Actuarial Science<br>Business Statistics | Mathematical Statistics and Probability |
| **Multidisciplinary –** see Multidisciplinary/Interdisciplinary Studies on page 8 | | | |
| **Neuroscience Fields** | | | |
| Neuroscience | 950 | | |
| **Physical Science Fields** | | | |
| Astronomy | 201 | Astrophysics | Planetary Astronomy and Science |
| Biochemistry | 602 | Biochemistry/Biophysics and Molecular Biology | |
| **Physical Science Fields continued next page** | | | |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Physical Science Fields – continued** | | | |
| Chemistry | 202 | Analytical Chemistry<br>Chemical Physics<br>Inorganic Chemistry<br>Organic Chemistry | Physical and Theoretical Chemistry<br>Polymer Chemistry |
| Physics (see also 605) | 203 | Acoustics<br>Atomic/Molecular Physics<br>Elementary Particle Physics<br>Nuclear Physics<br>Optics/Optical Sciences | Plasma and High-Temperature Physics<br>Solid State and Low-Temperature Physics<br>Theoretical and Mathematical Physics |
| Physical Sciences, not elsewhere classified | 204 | | |
| **Psychology Fields** | | | |
| Clinical Psychology (exclude PsyD) | 803 | Clinical Child Psychology | |
| Psychology, Combined | 801 | Psychology, General | |
| Psychology, except Clinical | 802 | Art Therapy (exclude master's)<br>Cognitive Psychology and Psycholinguistics<br>Community Psychology<br>Comparative Psychology<br>Counseling Psychology<br>Developmental and Child Psychology<br>Educational Psychology<br>Environmental Psychology<br>Experimental Psychology<br>Family Psychology<br>Forensic Psychology | Geropsychology<br>Health Psychology<br>Industrial and Organizational Psychology<br>Personality Psychology<br>Physiological Psychology/Psychobiology<br>Psychology, Other<br>Psychometrics and Quantitative Psychology<br>Psychopharmacology<br>School Psychology<br>Social Psychology |
| **Social Science Fields** | | | |
| Agricultural Economics | 901 | Natural Resource Economics | |
| Anthropology (Cultural and Social) | 902 | Archeology | Physical Anthropology |
| Economics | 903 | Applied Economics<br>Business/Managerial Economics<br>Development Economics and International Development | Econometrics and Quantitative Economics<br>International Economics |
| Geography | 904 | Cartography | |
| History and Philosophy of Science (combined program) | 905 | History and Philosophy of Science/Technology | |
| Linguistics | 906 | Linguistics of ASL, and Other Sign Languages | |
| Political Science/Public Administration | 907 | American Government and Politics<br>Canadian Government and Politics | International Relations and Affairs<br>Political Science and Government<br>Public Policy Analysis |
| Sociology | 908 | Demography and Population Studies | |
| Sociology/Anthropology (combined program) | 909 | | |
| **Social Science Fields continued next page** | | | |

| Field | GSS Code | Additional Program Titles | |
|---|---|---|---|
| **Social Science Fields – continued** | | | |
| Social Sciences, not elsewhere classified | 910 | African Studies<br>African-American/Black Studies<br>American Indian/Native American Studies<br>American/United States Studies/Civilization<br>Area Studies<br>Asian Studies/Civilization<br>Asian-American Studies<br>Balkans Studies<br>Baltic Studies<br>Canadian Studies<br>Caribbean Studies<br>Central/Middle and Eastern European Studies<br>Chinese Studies<br>Commonwealth Studies<br>Criminal Justice/Safety Studies<br>Criminalistics and Criminal Science<br>Criminology<br>East Asian Studies<br>Ethnic, Cultural Minority, and Gender Studies, Other<br>European Studies/Civilization<br>Forensic Science and Technology<br>French Studies<br>Gay/Lesbian Studies | German Studies<br>Hispanic-American, Puerto Rican, Mexican American Studies<br>Italian Studies<br>Japanese Studies<br>Korean Studies<br>Labor Studies<br>Latin American Studies<br>Near and Middle Eastern Studies<br>Organizational Behavior Studies<br>Pacific Area/Pacific Rim Studies<br>Polish Studies<br>Regional Studies (US, Canadian, Foreign)<br>Russian Studies<br>Scandinavian Studies<br>Slavic Studies<br>South Asian Studies<br>Southeast Asian Studies<br>Spanish and Iberian Studies<br>Tibetan Studies<br>Ukraine Studies<br>Ural-Altaic and Central Asian Studies<br>Urban Affairs/Studies<br>Western European Studies<br>Women's Studies |
| **Multidisciplinary/Interdisciplinary Studies** | | | |
| Multidisciplinary/ Interdisciplinary Studies | 980 | Accounting and Computer Science (combined program)<br>Behavioral Sciences<br>Biological and Physical Sciences<br>Biopsychology<br>Cognitive Science<br>Gerontology<br>Holocaust and Related Studies<br>Intercultural/Multicultural and Diversity Studies<br>International/Global Studies | Mathematics and Computer Science (combined program)<br>Natural Sciences<br>Peace Studies and Conflict Resolution<br>Science, Technology and Society<br>Systems Science and Theory |

**Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) Fall 2010**

National Science Foundation & National Institutes of Health

# 2010 GSS CROSSWALK

Between 2000 NCES Classification of Instructional Programs (CIP) Codes and GSS Codes

Please continue to use this CIP-GSS crosswalk. This is the same crosswalk that has been used in prior years, based on the 2000 CIP.

Do not include certificate programs or units that only award professional degrees, such as AuD, DDS, DN, DNP, DO, DPM, DPT, DScPT, JD, MD, ND, OD, OTD, PharmD, or PsyD.

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 01.0103 | 901 | Agricultural Economics |
| 01.0603 | 501 | Ornamental Horticulture |
| 01.0701 | 501 | International Agriculture |
| 01.0901 | 501 | Animal Sciences, General |
| 01.0902 | 501 | Agricultural Animal Breeding |
| 01.0903 | 501 | Animal Health |
| 01.0904 | 501 | Animal Nutrition |
| 01.0905 | 501 | Dairy Science |
| 01.0906 | 501 | Livestock Management |
| 01.0907 | 501 | Poultry Science |
| 01.0999 | 501 | Animal Sciences, Other |
| 01.1001 | 501 | Food Science |
| 01.1002 | 501 | Food Technology and Processing |
| 01.1099 | 501 | Food Science and Technology, Other |
| 01.1101 | 501 | Plant Sciences, General |
| 01.1102 | 501 | Agronomy and Crop Science |
| 01.1103 | 501 | Horticultural Science |
| 01.1104 | 501 | Agricultural and Horticultural Plant Breeding |
| 01.1105 | 501 | Plant Protection and Integrated Pest Management |
| 01.1106 | 501 | Range Science and Management |
| 01.1199 | 501 | Plant Sciences, Other |
| 01.1201 | 501 | Soil Science and Agronomy, General |
| 01.1202 | 501 | Soil Chemistry and Physics |
| 01.1203 | 501 | Soil Microbiology |
| 01.1299 | 501 | Soil Sciences, Other |
| 01.9999 | 501 | Agriculture, Agriculture Operations and Related Sciences, Other |
| 03.0101 | 501 | Natural Resources/Conservation, General |
| 03.0103 | 501 | Environmental Studies (GSS Codes 304, 907, 910 also permitted) |
| 03.0104 | 501 | Environmental Science (GSS Codes 304, 617 also permitted) |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 03.0199 | 501 | Natural Resources Conservation and Research, Other |
| 03.0201 | 501 | Natural Resources Management and Policy |
| 03.0204 | 901 | Natural Resource Economics |
| 03.0205 | 501 | Water, Wetlands, and Marine Resources Management |
| 03.0206 | 501 | Land Use Planning and Management/Development |
| 03.0299 | 501 | Natural Resources Management and Policy, Other |
| 03.0301 | 501 | Fishing and Fisheries Sciences and Management |
| 03.0501 | 501 | Forestry, General |
| 03.0502 | 501 | Forest Sciences and Biology |
| 03.0506 | 501 | Forest Management/Forest Resources Management |
| 03.0508 | 501 | Urban Forestry |
| 03.0509 | 104 | Wood Science and Wood Products/Pulp and Paper Technology |
| 03.0510 | 501 | Forest Resources Production and Management |
| 03.0599 | 501 | Forestry, Other |
| 03.0601 | 501 | Wildlife and Wildlands Science and Management |
| 03.9999 | 501 | Natural Resources and Conservation, Other |
| 04.0201 | 940 | Architecture |
| 04.0601 | 940 | Landscape Architecture |
| 05.0101 | 910 | African Studies |
| 05.0102 | 910 | American/United States Studies/Civilization |
| 05.0103 | 910 | Asian Studies/Civilization |
| 05.0104 | 910 | East Asian Studies |
| 05.0105 | 910 | Central/Middle and Eastern European Studies |
| 05.0106 | 910 | European Studies/Civilization |
| 05.0107 | 910 | Latin American Studies |
| 05.0108 | 910 | Near and Middle Eastern Studies |
| 05.0109 | 910 | Pacific Area/Pacific Rim Studies |
| 05.0110 | 910 | Russian Studies |
| 05.0111 | 910 | Scandinavian Studies |
| 05.0112 | 910 | South Asian Studies |
| 05.0113 | 910 | Southeast Asian Studies |
| 05.0114 | 910 | Western European Studies |
| 05.0115 | 910 | Canadian Studies |
| 05.0116 | 910 | Balkans Studies |
| 05.0117 | 910 | Baltic Studies |
| 05.0118 | 910 | Slavic Studies |
| 05.0119 | 910 | Caribbean Studies |
| 05.0120 | 910 | Ural-Altaic and Central Asian Studies |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 05.0121 | 910 | Commonwealth Studies |
| 05.0122 | 910 | Regional Studies (U.S., Canadian, Foreign) |
| 05.0123 | 910 | Chinese Studies |
| 05.0124 | 910 | French Studies |
| 05.0125 | 910 | German Studies |
| 05.0126 | 910 | Italian Studies |
| 05.0127 | 910 | Japanese Studies |
| 05.0128 | 910 | Korean Studies |
| 05.0129 | 910 | Polish Studies |
| 05.0130 | 910 | Spanish and Iberian Studies |
| 05.0131 | 910 | Tibetan Studies |
| 05.0132 | 910 | Ukraine Studies |
| 05.0199 | 910 | Area Studies, Other |
| 05.0201 | 910 | African-American/Black Studies |
| 05.0202 | 910 | American Indian/Native American Studies |
| 05.0203 | 910 | Hispanic-American, Puerto Rican, Mexican American Studies |
| 05.0206 | 910 | Asian-American Studies |
| 05.0207 | 910 | Women's Studies |
| 05.0208 | 910 | Gay/Lesbian Studies |
| 05.0299 | 910 | Ethnic, Cultural Minority, and Gender Studies, Other |
| 09.0101 | 930 | Communication Studies/Speech Communication and Rhetoric |
| 09.0102 | 930 | Mass Communication/Media Studies |
| 09.0199 | 930 | Communication and Media Studies, Other |
| 09.0702 | 930 | Digital Communication and Media/Multimedia |
| 09.0901 | 930 | Organizational Communication, General |
| 09.0904 | 930 | Political Communication |
| 09.0905 | 930 | Health Communication |
| 11.0101 | 401 | Computer and Information Sciences, General (exclude DCS) |
| 11.0102 | 401 | Artificial Intelligence and Robotics (exclude DCS) |
| 11.0103 | 401 | Information Technology (exclude DCS) |
| 11.0199 | 401 | Computer and Information Sciences, Other (exclude DCS) |
| 11.0401 | 401 | Information Science/Studies (exclude DCS) |
| 11.0501 | 401 | Computer Systems Analysis/Analyst (exclude DCS) |
| 11.0701 | 401 | Computer Science (exclude DCS) |
| 11.0802 | 401 | Data Modeling/Warehousing and Database Administration (exclude DCS) |
| 11.0803 | 401 | Computer Graphics (exclude DCS) |
| 11.0901 | 401 | Computer Systems Networking and Telecommunications (exclude DCS) |
| 11.1003 | 401 | Computer and Information Systems Security (exclude DCS) |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 14.0101 | 114 | Engineering, General |
| 14.0201 | 101 | Aerospace, Aeronautical, and Astronautical Engineering |
| 14.0301 | 102 | Agricultural/Biological Engineering and Bioengineering |
| 14.0401 | 105 | Architectural Engineering |
| 14.0501 | 103 | Biomedical/Medical Engineering |
| 14.0601 | 110 | Ceramic Sciences and Engineering |
| 14.0701 | 104 | Chemical Engineering |
| 14.0801 | 105 | Civil Engineering |
| 14.0802 | 105 | Geotechnical Engineering |
| 14.0803 | 105 | Structural Engineering |
| 14.0804 | 105 | Transportation and Highway Engineering |
| 14.0805 | 105 | Water Resources Engineering |
| 14.0899 | 105 | Civil Engineering, Other |
| 14.0901 | 106 | Computer Engineering |
| 14.0902 | 106 | Computer Hardware Engineering |
| 14.0903 | 106 | Computer Software Engineering |
| 14.0999 | 106 | Computer Engineering, Other |
| 14.1001 | 106 | Electrical, Electronics and Communication Engineering |
| 14.1101 | 109 | Engineering Mechanics |
| 14.1201 | 107 | Engineering Physics |
| 14.1301 | 107 | Engineering Science |
| 14.1401 | 105 | Environmental/Environmental Health Engineering |
| 14.1801 | 110 | Materials Engineering |
| 14.1901 | 109 | Mechanical Engineering |
| 14.2001 | 110 | Metallurgical Engineering |
| 14.2101 | 111 | Mining and Mineral Engineering |
| 14.2201 | 114 | Naval Architecture and Marine Engineering |
| 14.2301 | 112 | Nuclear Engineering |
| 14.2401 | 114 | Ocean Engineering |
| 14.2501 | 113 | Petroleum Engineering |
| 14.2701 | 108 | Systems Engineering |
| 14.2801 | 110 | Textile Sciences and Engineering |
| 14.3101 | 110 | Materials Science |
| 14.3201 | 104 | Polymer/Plastics Engineering |
| 14.3301 | 114 | Construction Engineering |
| 14.3401 | 114 | Forest Engineering |
| 14.3501 | 108 | Industrial Engineering |
| 14.3601 | 108 | Manufacturing Engineering |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 14.3701 | 108 | Operations Research |
| 14.3801 | 105 | Surveying Engineering |
| 14.3901 | 111 | Geological/Geophysical Engineering |
| 14.9999 | 114 | Engineering, Other |
| 15.0401 | 103 | Biomedical Technology/Technician (exclude master's) |
| 16.0102 | 906 | Linguistics |
| 16.1602 | 906 | Linguistics of ASL, and Other Sign Languages |
| 19.0101 | 920 | Family and Consumer Sciences/Human Sciences, General |
| 19.0201 | 920 | Business Family and Consumer Sciences/Human Sciences |
| 19.0402 | 920 | Consumer Economics |
| 19.0501 | 612 | Foods, Nutrition |
| 19.0504 | 612 | Human Nutrition |
| 19.0601 | 920 | Housing and Human Environments, General |
| 19.0701 | 920 | Human Development and Family Studies, General |
| 19.0702 | 920 | Adult Development and Aging |
| 19.0704 | 920 | Family Systems |
| 19.0706 | 920 | Child Development |
| 19.0904 | 110 | Textile Science |
| 26.0101 | 603 | Biology/Biological Sciences, General |
| 26.0102 | 617 | Biomedical Sciences, General |
| 26.0202 | 602 | Biochemistry |
| 26.0203 | 605 | Biophysics |
| 26.0204 | 607 | Molecular Biology |
| 26.0205 | 607 | Molecular Biochemistry |
| 26.0206 | 607 | Molecular Biophysics |
| 26.0207 | 607 | Structural Biology |
| 26.0208 | 607 | Photobiology |
| 26.0209 | 715 | Radiation Biology/Radiobiology |
| 26.0210 | 602 | Biochemistry/Biophysics and Molecular Biology (GSS Codes 605, 607 also permitted) |
| 26.0299 | 602 | Biochemistry, Biophysics and Molecular Biology, Other (GSS Codes 605, 607 also permitted) |
| 26.0301 | 606 | Botany/Plant Biology |
| 26.0305 | 606 | Plant Pathology/Phytopathology |
| 26.0307 | 606 | Plant Physiology |
| 26.0308 | 606 | Plant Molecular Biology |
| 26.0399 | 606 | Botany/Plant Biology, Other |
| 26.0401 | 607 | Cell/Cellular Biology and Histology |
| 26.0403 | 601 | Anatomy |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 26.0404 | 607 | Developmental Biology and Embryology |
| 26.0405 | 607 | Neuroanatomy |
| 26.0406 | 607 | Cell/Cellular and Molecular Biology |
| 26.0407 | 607 | Cell Biology and Anatomy (GSS Code 601 also permitted) |
| 26.0499 | 607 | Cell/Cellular Biology and Anatomical Sciences, Other (GSS Code 601 also permitted) |
| 26.0502 | 611 | Microbiology, General |
| 26.0503 | 611 | Medical Microbiology and Bacteriology |
| 26.0504 | 611 | Virology |
| 26.0505 | 609 | Parasitology |
| 26.0506 | 611 | Mycology |
| 26.0507 | 611 | Immunology |
| 26.0599 | 611 | Microbiological Sciences and Immunology, Other |
| 26.0701 | 616 | Zoology/Animal Biology |
| 26.0702 | 609 | Entomology |
| 26.0707 | 616 | Animal Physiology |
| 26.0708 | 616 | Animal Behavior and Ethology |
| 26.0709 | 616 | Wildlife Biology |
| 26.0799 | 616 | Zoology/Animal Biology, Other |
| 26.0801 | 610 | Genetics |
| 26.0802 | 610 | Molecular Genetics |
| 26.0803 | 610 | Microbial and Eukaryotic Genetics |
| 26.0804 | 610 | Animal Genetics |
| 26.0805 | 610 | Plant Genetics |
| 26.0806 | 610 | Human/Medical Genetics |
| 26.0899 | 610 | Genetics, Other |
| 26.0901 | 615 | Physiology, General |
| 26.0902 | 615 | Molecular Physiology |
| 26.0903 | 615 | Cell Physiology |
| 26.0904 | 704 | Endocrinology |
| 26.0905 | 615 | Reproductive Biology (GSS Codes 601, 616 also permitted) |
| 26.0906 | 615 | Neurobiology and Neurophysiology (GSS Codes 602, 603 also permitted) |
| 26.0907 | 702 | Cardiovascular Science |
| 26.0908 | 615 | Exercise Physiology |
| 26.0909 | 615 | Vision Science/Physiological Optics |
| 26.0910 | 613 | Pathology/Experimental Pathology |
| 26.0911 | 615 | Oncology and Cancer Biology |
| 26.0999 | 615 | Physiology, Pathology, and Related Sciences, Other (GSS Code 613 also permitted) |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 26.1001 | 614 | Pharmacology |
| 26.1002 | 614 | Molecular Pharmacology |
| 26.1003 | 614 | Neuropharmacology |
| 26.1004 | 614 | Toxicology |
| 26.1005 | 614 | Molecular Toxicology |
| 26.1006 | 614 | Environmental Toxicology |
| 26.1007 | 614 | Pharmacology and Toxicology |
| 26.1099 | 614 | Pharmacology and Toxicology, Other |
| 26.1101 | 604 | Biometry/Biometrics |
| 26.1102 | 604 | Biostatistics |
| 26.1103 | 604 | Bioinformatics |
| 26.1199 | 604 | Biomathematics and Bioinformatics, Other |
| 26.1201 | 617 | Biotechnology |
| 26.1301 | 608 | Ecology |
| 26.1302 | 303 | Marine Biology and Biological Oceanography |
| 26.1303 | 610 | Evolutionary Biology |
| 26.1304 | 617 | Aquatic Biology/Limnology |
| 26.1305 | 617 | Environmental Biology |
| 26.1306 | 617 | Population Biology |
| 26.1307 | 617 | Conservation Biology |
| 26.1308 | 617 | Systematic Biology/Biological Systematics |
| 26.1309 | 604 | Epidemiology |
| 26.1399 | 617 | Ecology, Evolution, Systematics and Population Biology, Other |
| 26.9999 | 617 | Biological and Life Sciences, Other |
| 27.0101 | 402 | Mathematics |
| 27.0102 | 402 | Algebra and Number Theory |
| 27.0103 | 402 | Analysis and Functional Analysis |
| 27.0104 | 402 | Geometry/Geometric Analysis |
| 27.0105 | 402 | Topology and Foundations |
| 27.0199 | 402 | Mathematics, Other |
| 27.0301 | 402 | Applied Mathematics |
| 27.0303 | 402 | Computational Mathematics |
| 27.0399 | 402 | Applied Mathematics, Other |
| 27.0501 | 403 | Statistics |
| 27.0502 | 403 | Mathematical Statistics and Probability |
| 27.0599 | 403 | Statistics, Other |
| 27.9999 | 402 | Mathematics and Statistics, Other |
| 30.0101 | 980 | Biological and Physical Sciences |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 30.0501 | 980 | Peace Studies, and Conflict Resolution |
| 30.0601 | 980 | Systems Science and Theory |
| 30.0801 | 980 | Mathematics and Computer Science (combined program) |
| 30.1001 | 980 | Biopsychology |
| 30.1101 | 980 | Gerontology |
| 30.1501 | 980 | Science, Technology and Society |
| 30.1601 | 980 | Accounting and Computer Science (combined program) |
| 30.1701 | 980 | Behavioral Sciences |
| 30.1801 | 980 | Natural Sciences |
| 30.1901 | 612 | Nutrition Science |
| 30.2001 | 980 | International/Global Studies |
| 30.2101 | 980 | Holocaust and Related Studies |
| 30.2301 | 980 | Intercultural/Multicultural and Diversity Studies |
| 30.2401 | 950 | Neuroscience |
| 30.2501 | 980 | Cognitive Science |
| 30.9999 | 980 | Multi-/Interdisciplinary Studies, Other |
| 31.0505 | 722 | Exercise Science/Physiology and Movement Studies |
| 40.0101 | 204 | Physical Sciences |
| 40.0201 | 201 | Astronomy |
| 40.0202 | 201 | Astrophysics |
| 40.0203 | 201 | Planetary Astronomy and Science |
| 40.0299 | 201 | Astronomy and Astrophysics, Other |
| 40.0401 | 301 | Atmospheric Sciences and Meteorology |
| 40.0402 | 301 | Atmospheric Chemistry and Climatology |
| 40.0403 | 301 | Atmospheric Physics and Dynamics |
| 40.0404 | 301 | Meteorology |
| 40.0499 | 301 | Atmospheric Sciences and Meteorology, Other |
| 40.0501 | 202 | Chemistry |
| 40.0502 | 202 | Analytical Chemistry |
| 40.0503 | 202 | Inorganic Chemistry |
| 40.0504 | 202 | Organic Chemistry |
| 40.0506 | 202 | Physical and Theoretical Chemistry |
| 40.0507 | 202 | Polymer Chemistry |
| 40.0508 | 202 | Chemical Physics |
| 40.0599 | 202 | Chemistry, Other |
| 40.0601 | 302 | Geology/Earth Science, General |
| 40.0602 | 302 | Geochemistry |
| 40.0603 | 302 | Geophysics and Seismology |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 40.0604 | 302 | Paleontology |
| 40.0605 | 302 | Hydrology and Water Resources Science |
| 40.0606 | 302 | Geochemistry and Petrology |
| 40.0607 | 303 | Oceanography, Chemical and Physical |
| 40.0699 | 302 | Geological and Earth Sciences/Geosciences, Other |
| 40.0801 | 203 | Physics |
| 40.0802 | 203 | Atomic/Molecular Physics |
| 40.0804 | 203 | Elementary Particle Physics |
| 40.0805 | 203 | Plasma and High-Temperature Physics |
| 40.0806 | 203 | Nuclear Physics |
| 40.0807 | 203 | Optics/Optical Sciences |
| 40.0808 | 203 | Solid State and Low - Temperature Physics |
| 40.0809 | 203 | Acoustics |
| 40.0810 | 203 | Theoretical and Mathematical Physics |
| 40.0899 | 203 | Physics, Other |
| 40.9999 | 204 | Physical Sciences, Other |
| 42.0101 | 801 | Psychology, General |
| 42.0201 | 803 | Clinical Psychology (exclude PsyD) |
| 42.0301 | 802 | Cognitive Psychology and Psycholinguistics |
| 42.0401 | 802 | Community Psychology |
| 42.0501 | 802 | Comparative Psychology |
| 42.0601 | 802 | Counseling Psychology |
| 42.0701 | 802 | Developmental and Child Psychology |
| 42.0801 | 802 | Experimental Psychology |
| 42.0901 | 802 | Industrial and Organizational Psychology |
| 42.1001 | 802 | Personality Psychology |
| 42.1101 | 802 | Physiological Psychology/Psychobiology |
| 42.1601 | 802 | Social Psychology |
| 42.1701 | 802 | School Psychology |
| 42.1801 | 802 | Educational Psychology |
| 42.1901 | 802 | Psychometrics and Quantitative Psychology |
| 42.2001 | 803 | Clinical Child Psychology (exclude PsyD) |
| 42.2101 | 802 | Environmental Psychology |
| 42.2201 | 802 | Geropsychology |
| 42.2301 | 802 | Health Psychology |
| 42.2401 | 802 | Psychopharmacology |
| 42.2501 | 802 | Family Psychology |
| 42.2601 | 802 | Forensic Psychology |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 42.9999 | 802 | Psychology, Other |
| 43.0104 | 910 | Criminal Justice/Safety Studies |
| 43.0106 | 910 | Forensic Science and Technology |
| 43.0111 | 910 | Criminalistics and Criminal Science |
| 44.0401 | 907 | Public Administration |
| 44.0501 | 907 | Public Policy Analysis |
| 45.0101 | 910 | Social Sciences, General |
| 45.0201 | 902 | Anthropology |
| 45.0202 | 902 | Physical Anthropology |
| 45.0299 | 902 | Anthropology, Other |
| 45.0301 | 902 | Archeology |
| 45.0401 | 910 | Criminology |
| 45.0501 | 908 | Demography and Population Studies |
| 45.0601 | 903 | Economics |
| 45.0602 | 903 | Applied Economics |
| 45.0603 | 903 | Econometrics and Quantitative Economics |
| 45.0604 | 903 | Development Economics and International Development |
| 45.0605 | 903 | International Economics |
| 45.0699 | 903 | Economics, Other |
| 45.0701 | 904 | Geography |
| 45.0702 | 904 | Cartography |
| 45.0799 | 904 | Geography, Other |
| 45.0901 | 907 | International Relations and Affairs |
| 45.1001 | 907 | Political Science and Government, General |
| 45.1002 | 907 | American Government and Politics |
| 45.1003 | 907 | Canadian Government and Politics |
| 45.1099 | 907 | Political Science and Government, Other |
| 45.1101 | 908 | Sociology |
| 45.1201 | 910 | Urban Affairs/Studies |
| 45.9999 | 910 | Social Sciences, Other |
| 51.0000 | 712 | Health Services/Allied Health/Health Sciences, General |
| 51.0201 | 723 | Communication Disorders, General |
| 51.0202 | 723 | Audiology/Audiologist and Hearing Sciences (exclude AuD) |
| 51.0203 | 723 | Speech-Language Pathology/Pathologist |
| 51.0204 | 723 | Audiology/Audiologist and Speech Language Pathology/Pathologist |
| 51.0299 | 723 | Communication Disorders Sciences and Services, Other |
| 51.0501 | 718 | Dental Clinical Sciences, General |
| 51.0503 | 718 | Oral Biology and Oral Pathology |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 51.0504 | 718 | Dental Public Health and Education |
| 51.0505 | 718 | Dental Materials |
| 51.0506 | 718 | Endodontics/Endodontology |
| 51.0507 | 718 | Oral/Maxillofacial Surgery |
| 51.0508 | 718 | Orthodontics/Orthodontology |
| 51.0509 | 718 | Pediatric Dentistry/Pedodontics |
| 51.0510 | 718 | Periodontics/Periodontology |
| 51.0511 | 718 | Prosthodontics/Prosthodontology |
| 51.0599 | 718 | Advanced/Graduate Dentistry and Oral Sciences, Other (Exclude DDS) |
| 51.0602 | 718 | Dental Hygiene/Hygienist (exclude master's) |
| 51.0913 | 722 | Athletic Training/Trainer - Sports Medicine |
| 51.0916 | 715 | Radiation Protection/Health Physics Technician |
| 51.1005 | 717 | Clinical Laboratory Science/Medical Technology/Technologist |
| 51.1099 | 717 | Clinical/Medical Laboratory Science and Allied Professions, Other (exclude master's) |
| 51.1401 | 717 | Medical Scientist (Exclude MD) |
| 51.1601 | 719 | Nursing - Registered Nurse Training (exclude master's and DNP) |
| 51.1602 | 719 | Nursing Administration (exclude master's and DNP) |
| 51.1603 | 719 | Adult Health Nurse/Nursing (exclude master's and DNP) |
| 51.1604 | 701 | Nurse Anesthetist (exclude master's and DNP) |
| 51.1605 | 719 | Family Practice Nurse/Nurse Practitioner (exclude master's and DNP) |
| 51.1606 | 719 | Maternal/Child Health and Neonatal Nurse/Nursing (exclude master's and DNP) |
| 51.1607 | 719 | Nurse Midwife/Nursing Midwifery (exclude master's and DNP) |
| 51.1608 | 719 | Nursing Science (exclude DNP) |
| 51.1609 | 719 | Pediatric Nurse/Nursing (exclude master's and DNP) |
| 51.1610 | 719 | Psychiatric/Mental Health Nurse/Nursing (exclude master's and DNP) |
| 51.1611 | 719 | Public Health/Community Nurse/Nursing (exclude master's and DNP) |
| 51.1612 | 719 | Perioperative/Operating Room and Surgical Nurse/Nursing (exclude master's and DNP) |
| 51.1616 | 719 | Clinical Nurse Specialist (exclude master's and DNP) |
| 51.1617 | 719 | Critical Care Nursing (exclude master's and DNP) |
| 51.1618 | 719 | Occupational and Environmental Health Nursing (exclude master's and DNP) |
| 51.1699 | 719 | Nursing, Other (exclude master's and DNP) |
| 51.2002 | 720 | Pharmacy Administration/Policy/Regulatory Affairs (exclude master's and PharmD) |
| 51.2003 | 720 | Pharmaceutics and Drug Design (exclude PharmD) |
| 51.2004 | 720 | Medicinal and Pharmaceutical Chemistry (exclude PharmD) |
| 51.2005 | 720 | Natural Products Chemistry and Pharmacognosy (exclude PharmD) |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 51.2006 | 720 | Clinical and Industrial Drug Development (exclude PharmD) |
| 51.2007 | 720 | Pharmacoeconomics/Pharmaceutical Economics (exclude PharmD) |
| 51.2009 | 720 | Industrial and Physical Pharmacy and Cosmetic Sciences (exclude PharmD) |
| 51.2099 | 720 | Pharmacy, Pharmaceutical Sciences, and Administration, Other (exclude master's and PharmD) |
| 51.2201 | 712 | Public Health, General |
| 51.2202 | 712 | Environmental Health |
| 51.2205 | 712 | Health/Medical Physics |
| 51.2206 | 712 | Occupational Health and Industrial Hygiene |
| 51.2207 | 712 | Public Health Education and Promotion |
| 51.2208 | 712 | Community Health and Preventive Medicine |
| 51.2209 | 712 | Maternal and Child Health |
| 51.2210 | 712 | International Public Health/International Health |
| 51.2301 | 802 | Art Therapy (exclude master's) |
| 51.2306 | 722 | Occupational Therapy/Therapist (exclude master's and OTD) |
| 51.2308 | 722 | Physical Therapy/Therapist (exclude master's and DPT) |
| 51.2312 | 722 | Assistive/Augmentative Technology and Rehabilitation Engineering |
| 51.2501 | 721 | Veterinary Biomedicine and Clinical Sciences (exclude DVM) |
| 51.2502 | 721 | Veterinary Anatomy (exclude DVM) |
| 51.2503 | 721 | Veterinary Physiology (exclude DVM) |
| 51.2504 | 721 | Veterinary Microbiology and Immunobiology (exclude DVM) |
| 51.2505 | 721 | Veterinary Pathology and Pathobiology (exclude DVM) |
| 51.2506 | 721 | Veterinary Toxicology and Pharmacology (exclude DVM) |
| 51.2507 | 721 | Large Animal/Food Animal & Equine Surgery/Medicine (exclude DVM) |
| 51.2508 | 721 | Small/Companion Animal Surgery and Medicine (exclude DVM) |
| 51.2509 | 721 | Comparative and Laboratory Animal Medicine (exclude DVM) |
| 51.2510 | 721 | Veterinary Preventive Med Epidemiology/Public Hlth (exclude DVM) |
| 51.2511 | 721 | Veterinary Infectious Diseases (exclude DVM) |
| 51.2599 | 721 | Veterinary Biomedical and Clinical Sciences, Other (exclude DVM) |
| 51.2703 | 617 | Medical Illustration |
| 51.2706 | 604 | Medical Informatics |
| 51.3201 | 617 | Bioethics/Medical Ethics |
| 51.9999 | 722 | Health Professions and Related Clinical Sciences, Other (exclude master's) |
| 52.0601 | 903 | Business/Managerial Economics |
| 52.1003 | 910 | Organizational Behavior Studies |
| 52.1004 | 910 | Labor Studies |
| 52.1201 | 401 | Management Information Systems, General (exclude DCS) |

## 2010 GSS CROSSWALK—Continued

| 2000 CIP Code | GSS Code | Description of CIP Field |
|---|---|---|
| 52.1301 | 401 | Management Science, General (exclude DCS) |
| 52.1302 | 403 | Business Statistics |
| 52.1304 | 403 | Actuarial Science |
| 54.0104 | 905 | History and Philosophy of Science/Technology (combined program) |

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