TABLE 1-10b

Postdoctoral appointees in engineering broad fields: 1979-2023

| ar | Total | Aerospace, aeronautical, and astronautical engineering | Biological, biomedical, and biosystems engineering | Chemical, petroleum, and chemical-related engineering | Civil, environmental, transportation and related engineering fields ^a | Electrical, electronics, communications and computer engineering | Industrial, manufacturing, systems engineering and operations research | Mechanical engineering | Metallurgical, mining, materials and related engineering fields ^b | Other eng | ieering ^c |
|---------------------|-------|--|--|---|--|--|--|------------------------|--|-----------|----------------------|
| 979 980 | 1,067 | 32 | 28 | 198 | 128 | 142 | | 8 143 | | 214 | 1 |
| | 981 | 20 | 25 | 191 | 122 | 123 | | 16 137 | | 175 | 1 |
| 981 | 1,040 | 14 | 32 | 175 | 103 | 191 | | 13 130 | | 210 | 1 |
| 982 | 980 | 25 | 28 | 181 | 103 | 178 | | 9 130 | | 178 | 1 |
| 983 | 1,108 | 32 | 27 | 200 | 131 | 180 | | 13 182 | | 223 | 1 |
| 984 | 1,203 | 42 | 31 | 250 | 146 | 178 | | 21 196 | | 186 | 1 |
| 985 | 1,356 | 51 | 46 | 280 | 122 | 183 | | 18 207 | | 264 | 1 |
| 986 | 1,405 | 48 | 53 | 299 | 140 | 175 | | 25 240 | | 275 | 1 |
| 987 | 1,446 | 43 | 44 | 322 | 174 | 177 | | 26 216 | | 309 | 1 |
| 988 | 1,690 | 48 | 47 | 433 | 203 | 187 | | 32 218 | | 388 | 1 |
| 989 | 1,928 | 38 | 69 | 486 | 182 | 193 | | 32 304 | | 413 | 2 |
| 990 | 1,950 | 67 | 71 | 572 | 168 | 242 | | 6 222 | | 382 | 2 |
| 991 | 2,262 | 77 | 59 | 595 | 186 | 346 | | 27 326 | | 403 | 2 |
| 992 | 2,369 | 92 | 79 | 556 | 188 | 318 | | 38 352 | | 473 | 2 |
| 993 | 2,446 | 116 | 80 | 542 | 181 | 388 | | 63 358 | | 422 | 2 |
| 994 | 2,606 | 100 | 135 | 541 | 210 | 411 | | 54 388 | | 465 | 3 |
| 995 | 2,648 | 101 | 129 | 585 | 201 | 381 | | 30 410 | | 509 | 3 |
| 996 | 2,677 | 109 | 140 | 551 | 230 | 395 | | 30 425 | | 506 | 2 |
| 997 | 2,971 | 125 | 154 | 657 | 248 | 508 | | 28 440 | | 476 | 3 |
| 998 | 2,853 | 133 | 180 | 627 | 225 | 488 | | 30 434 | | 414 | 3 |
| 999 | 3,196 | 128 | 242 | 690 | 299 | 548 | | 27 476 | | 427 | 3 |
| 000 | 3,313 | 111 | 220 | 723 | 295 | 525 | | 48 480 | | 515 | 3 |
| 001 | 3,152 | 128 | 262 | 591 | 268 | 436 | | 21 501 | | 493 | 4 |
| 002 | 3,566 | 140 | 284 | 773 | 342 | 613 | | 43 441 | | 517 | 4 |
| 003 | 3,810 | 141 | 388 | 703 | 300 | 646 | | 45 543 | | 551 | 4 |
| 004 | 3,949 | 141 | 425 | 703 | 313 | 654 | | 50 514 | | 576 | 5 |
| 005 | 4,166 | 153 | 477 | 715 | 384 | 689 | | 51 562 | | 586 | 5 |
| 006 | 4,642 | 165 | 591 | 753 | 458 | 721 | | 51 644 | | 582 | 6 |
| 007old ^a | 4,908 | 178 | 640 | 780 | 419 | 885 | | 73 725 | | 559 | 6 |
| 007new ^a | 4,942 | 178 | 640 | 812 | 417 | 884 | | 71 722 | | 569 | 6 |
| 800 | 5,462 | 154 | 710 | 908 | 465 | 987 | | 115 784 | | 610 | 7 |
| 009 | 6,416 | 168 | 960 | 1,120 | 535 | 1,025 | | 109 948 | | 762 | 7 |
|)10 ^{d,e} | 6,969 | 212 | 1,023 | 1,121 | 571 | 1,095 | | 151 1,021 | | 845 | |
|)11 ^e | 6,786 | 202 | 1,069 | | 551 | 1,035 | | 121 889 | | 864 | 5 |
|)12 | 7,103 | 170 | 1,161 | 1,172 1,151 1,279 | 590 | 1,152 | | 127 985 | | 859 | |
| 013 | 7,106 | 202 | 1,103 | 1 270 | 597 | 1,180 | | 133 1,034 | | 816 | |

TABLE 1 10b

Postdoctoral appointees in engineering broad fields: 1979-2023

(Number)

| Year | Total | Aerospace, aeronautical, and astronautical engineering | Biological, biomedical, and biosystems engineering | Chemical, petroleum, and chemical-related engineering | Civil, environmental, transportation and related engineering fields ^a | Electrical, electronics, communications and computer engineering | Industrial, manufacturing, systems engineering and operations research | Mechanical engine | neering Metallurgical, mining, materials and related engineering fields ^b | Other e | engineering ^c |
|----------------------|-------|--|--|---|--|--|--|-------------------|--|---------|--------------------------|
| 2014old ^f | 7,292 | 220 | 1,196 | 1,310 | 629 | 1,177 | 1 | 131 | 1,055 | 791 | 783 |
| 2014new ^f | 7,307 | 220 | 1,198 | 1,310 | 629 | 1,179 | 1 | 131 | 1,058 | 795 | 787 |
| 2015 | 7,656 | 217 | 1,201 | 1,356 | 670 | 1,160 | 1 | 142 | 1,161 | 926 | 823 |
| 2016 | 7,796 | 201 | 1,278 | 1,290 | 706 | 1,186 | 1 | 130 | 1,080 | 892 | 1,033 |
| 2017old ^b | 7,929 | na | na | na | na | na | | na | na | na | na |
| 2017new ^b | 7,839 | 196 | 1,476 | 1,262 | 804 | 1,170 | 1 | 127 | 1,089 | 565 | 1,150 |
| 2018 | 7,914 | 207 | 1,529 | 1,205 | 739 | 1,197 | 1 | 156 | 1,069 | 575 | 1,237 |
| 2019 | 8,266 | 227 | 1,602 | 1,229 | 865 | 1,305 | 1 | 167 | 1,142 | 665 | 1,064 |
| 2020 | 8,462 | 233 | 1,696 | 1,157 | 1,006 | 1,302 | 1 | 194 | 1,149 | 630 | 1,095 |
| 2021 | 8,340 | 277 | 1,616 | 1,167 | 968 | 1,275 | 1 | 127 | 1,200 | 562 | 1,148 |
| 2022 | 8,335 | 244 | 1,540 | 1,239 | 1,018 | 1,217 | 1 | 143 | 1,189 | 542 | 1,203 |
| 2023 | 9,051 | 254 | 1,594 | 1,501 | 1,070 | 1,339 | 1 | 170 | 1,317 | 557 | 1,249 |

na = not applicable; data were not collected at this level of detail in the year shown.

a In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

b As part of the 2017 Survey of Graduate Students and Engineering From 2011–16; starting in Comparisons to prior years should use the 2017old estimates and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons are not recommended. Materials sciences was reported as part of the science and Engineering from 2017, materials engineering from 2017, materials sciences is reported as part of physical sciences was removed.

^c Other engineering includes agricultural engineering; engineering mechanics, science, and physics; nuclear engineering, other; and, from 2007new to 2017old, architecture. Architecture was reported under civil engineering in 2007old and previous years.

d In 2010, the postdoctoral appointee (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFR data. Thus, it is unclear how much of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure the survey was expanded and significant effort was made to ensure the survey was expanded and s

e Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

f In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, and health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314/.

Note(s):

Prior to 2020, there were no broad fields in engineering and this table includes all engineering detailed fields. All fields have been moved to match the current broad field organization. For postdoctoral appointees, "field" refers to the field of the unit that reports information on this group to the GSS. Sum of the broad fields may not add to total because of rounding. For more information on the mapping of GSS fields and codes, see technical table A-17.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.