

Table 2-4. Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2024

(Number and percent)

| Detailed field | Master's students | | | | | Doctoral students | | | | | Postdoctoral appointees | | | | | Doctorate-holding nonfaculty researchers | | | | |
|---|-------------------|---------|---------|---------|---------|-------------------|---------|---------|---------|---------|-------------------------|--------|---------|--------|---------|--|--------|---------|--------|---------|
| | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | |
| | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent |
| All detailed fields | 505,930 | 256,667 | 50.7 | 249,263 | 49.3 | 312,148 | 165,700 | 53.1 | 146,448 | 46.9 | 69,877 | 39,230 | 56.1 | 30,647 | 43.9 | 35,142 | 19,523 | 55.6 | 15,619 | 44.4 |
| Science | 347,469 | 171,601 | 49.4 | 175,868 | 50.6 | 216,898 | 106,740 | 49.2 | 110,158 | 50.8 | 39,702 | 22,415 | 56.5 | 17,287 | 43.5 | 20,566 | 11,670 | 56.7 | 8,896 | 43.3 |
| Agricultural and veterinary sciences | 6,973 | 2,538 | 36.4 | 4,435 | 63.6 | 5,044 | 2,299 | 45.6 | 2,745 | 54.4 | 2,177 | 1,032 | 47.4 | 1,145 | 52.6 | 1,234 | 645 | 52.3 | 589 | 47.7 |
| Agricultural sciences | 6,316 | 2,394 | 37.9 | 3,922 | 62.1 | 4,522 | 2,083 | 46.1 | 2,439 | 53.9 | 1,394 | 760 | 54.5 | 634 | 45.5 | 900 | 489 | 54.3 | 411 | 45.7 |
| Veterinary biomedical and clinical sciences | 657 | 144 | 21.9 | 513 | 78.1 | 522 | 216 | 41.4 | 306 | 58.6 | 783 | 272 | 34.7 | 511 | 65.3 | 334 | 156 | 46.7 | 178 | 53.3 |
| Biological and biomedical sciences | 46,661 | 15,055 | 32.3 | 31,606 | 67.7 | 62,357 | 25,010 | 40.1 | 37,347 | 59.9 | 20,234 | 10,560 | 52.2 | 9,674 | 47.8 | 8,795 | 4,581 | 52.1 | 4,214 | 47.9 |
| Biochemistry | 862 | 356 | 41.3 | 506 | 58.7 | 5,021 | 2,282 | 45.4 | 2,739 | 54.6 | 1,778 | 989 | 55.6 | 789 | 44.4 | 913 | 526 | 57.6 | 387 | 42.4 |
| Biology | 7,937 | 2,785 | 35.1 | 5,152 | 64.9 | 7,776 | 3,090 | 39.7 | 4,686 | 60.3 | 2,133 | 1,157 | 54.2 | 976 | 45.8 | 827 | 420 | 50.8 | 407 | 49.2 |
| Biomedical sciences | 6,471 | 1,865 | 28.8 | 4,606 | 71.2 | 5,685 | 2,139 | 37.6 | 3,546 | 62.4 | 1,538 | 776 | 50.5 | 762 | 49.5 | 632 | 312 | 49.4 | 320 | 50.6 |
| Biophysics | 9 | 4 | 44.4 | 5 | 55.6 | 958 | 552 | 57.6 | 406 | 42.4 | 161 | 93 | 57.8 | 68 | 42.2 | 81 | 57 | 70.4 | 24 | 29.6 |
| Biostatistics and bioinformatics | 4,881 | 1,989 | 40.7 | 2,892 | 59.3 | 4,183 | 2,177 | 52.0 | 2,006 | 48.0 | 900 | 553 | 61.4 | 347 | 38.6 | 417 | 224 | 53.7 | 193 | 46.3 |
| Biotechnology | 4,591 | 1,725 | 37.6 | 2,866 | 62.4 | 171 | 66 | 38.6 | 105 | 61.4 | 131 | 70 | 53.4 | 61 | 46.6 | 85 | 50 | 58.8 | 35 | 41.2 |
| Botany and plant biology | 411 | 145 | 35.3 | 266 | 64.7 | 1,312 | 586 | 44.7 | 726 | 55.3 | 511 | 268 | 52.4 | 243 | 47.6 | 191 | 99 | 51.8 | 92 | 48.2 |
| Cell, cellular biology, and anatomical sciences | 1,073 | 362 | 33.7 | 711 | 66.3 | 5,591 | 2,166 | 38.7 | 3,425 | 61.3 | 1,532 | 774 | 50.5 | 758 | 49.5 | 681 | 367 | 53.9 | 314 | 46.1 |
| Ecology and population biology | 1,085 | 397 | 36.6 | 688 | 63.4 | 2,767 | 1,079 | 39.0 | 1,688 | 61.0 | 471 | 218 | 46.3 | 253 | 53.7 | 206 | 99 | 48.1 | 107 | 51.9 |
| Epidemiology | 3,914 | 918 | 23.5 | 2,996 | 76.5 | 2,296 | 734 | 32.0 | 1,562 | 68.0 | 390 | 156 | 40.0 | 234 | 60.0 | 168 | 57 | 33.9 | 111 | 66.1 |
| Genetics | 712 | 152 | 21.3 | 560 | 78.7 | 2,538 | 983 | 38.7 | 1,555 | 61.3 | 1,306 | 715 | 54.7 | 591 | 45.3 | 612 | 316 | 51.6 | 296 | 48.4 |
| Microbiological sciences and immunology | 1,930 | 526 | 27.3 | 1,404 | 72.7 | 4,710 | 1,797 | 38.2 | 2,913 | 61.8 | 1,993 | 983 | 49.3 | 1,010 | 50.7 | 761 | 389 | 51.1 | 372 | 48.9 |
| Molecular biology | 412 | 143 | 34.7 | 269 | 65.3 | 1,282 | 538 | 42.0 | 744 | 58.0 | 428 | 226 | 52.8 | 202 | 47.2 | 240 | 142 | 59.2 | 98 | 40.8 |
| Neurobiology and neuroscience | 606 | 207 | 34.2 | 399 | 65.8 | 6,233 | 2,297 | 36.9 | 3,936 | 63.1 | 2,084 | 1,101 | 52.8 | 983 | 47.2 | 802 | 413 | 51.5 | 389 | 48.5 |
| Nutrition science | 2,999 | 434 | 14.5 | 2,565 | 85.5 | 1,116 | 278 | 24.9 | 838 | 75.1 | 163 | 58 | 35.6 | 105 | 64.4 | 93 | 34 | 36.6 | 59 | 63.4 |
| Pathology and experimental pathology | 153 | 31 | 20.3 | 122 | 79.7 | 1,049 | 376 | 35.8 | 673 | 64.2 | 984 | 501 | 50.9 | 483 | 49.1 | 385 | 191 | 49.6 | 194 | 50.4 |
| Pharmacology and toxicology | 916 | 317 | 34.6 | 599 | 65.4 | 2,445 | 963 | 39.4 | 1,482 | 60.6 | 1,005 | 524 | 52.1 | 481 | 47.9 | 474 | 249 | 52.5 | 225 | 47.5 |
| Physiology | 3,398 | 1,355 | 39.9 | 2,043 | 60.1 | 3,286 | 1,366 | 41.6 | 1,920 | 58.4 | 1,510 | 765 | 50.7 | 745 | 49.3 | 702 | 370 | 52.7 | 332 | 47.3 |
| Zoology and animal biology | 941 | 361 | 38.4 | 580 | 61.6 | 1,209 | 501 | 41.4 | 708 | 58.6 | 368 | 196 | 53.3 | 172 | 46.7 | 138 | 65 | 47.1 | 73 | 52.9 |
| Biological and biomedical sciences nec | 3,360 | 983 | 29.3 | 2,377 | 70.7 | 2,729 | 1,040 | 38.1 | 1,689 | 61.9 | 848 | 437 | 51.5 | 411 | 48.5 | 387 | 201 | 51.9 | 186 | 48.1 |
| Computer and information sciences | 137,358 | 91,931 | 66.9 | 45,427 | 33.1 | 24,010 | 17,182 | 71.6 | 6,828 | 28.4 | 1,042 | 742 | 71.2 | 300 | 28.8 | 653 | 477 | 73.0 | 176 | 27.0 |
| Artificial intelligence, informatics, and computer and information science topics | 9,130 | 5,944 | 65.1 | 3,186 | 34.9 | 1,207 | 762 | 63.1 | 445 | 36.9 | 60 | 42 | 70.0 | 18 | 30.0 | 61 | 47 | 77.0 | 14 | 23.0 |
| Computer and information sciences | 40,902 | 28,922 | 70.7 | 11,980 | 29.3 | 7,645 | 5,698 | 74.5 | 1,947 | 25.5 | 255 | 185 | 72.5 | 70 | 27.5 | 249 | 188 | 75.5 | 61 | 24.5 |
| Computer and information systems security | 11,295 | 8,162 | 72.3 | 3,133 | 27.7 | 681 | 510 | 74.9 | 171 | 25.1 | 4 | 2 | 50.0 | 2 | 50.0 | 16 | 13 | 81.3 | 3 | 18.8 |
| Computer science | 41,018 | 28,531 | 69.6 | 12,487 | 30.4 | 12,227 | 9,062 | 74.1 | 3,165 | 25.9 | 553 | 411 | 74.3 | 142 | 25.7 | 181 | 128 | 70.7 | 53 | 29.3 |
| Information science and studies | 16,134 | 8,762 | 54.3 | 7,372 | 45.7 | 1,575 | 744 | 47.2 | 831 | 52.8 | 58 | 31 | 53.4 | 27 | 46.6 | 61 | 36 | 59.0 | 25 | 41.0 |
| Information technology | 11,479 | 6,987 | 60.9 | 4,492 | 39.1 | 586 | 347 | 59.2 | 239 | 40.8 | 5 | 2 | 40.0 | 3 | 60.0 | 18 | 11 | 61.1 | 7 | 38.9 |
| Computer and information sciences nec | 7,400 | 4,623 | 62.5 | 2,777 | 37.5 | 89 | 59 | 66.3 | 30 | 33.7 | 107 | 69 | 64.5 | 38 | 35.5 | 67 | 54 | 80.6 | 13 | 19.4 |
| Geosciences, atmospheric, and ocean sciences | 4,909 | 2,213 | 45.1 | 2,696 | 54.9 | 6,857 | 3,295 | 48.1 | 3,562 | 51.9 | 2,043 | 1,169 | 57.2 | 874 | 42.8 | 2,253 | 1,478 | 65.6 | 775 | 34.4 |
| Atmospheric sciences and meteorology | 480 | 246 | 51.3 | 234 | 48.8 | 1,021 | 600 | 58.8 | 421 | 41.2 | 296 | 177 | 59.8 | 119 | 40.2 | 425 | 309 | 72.7 | 116 | 27.3 |

Table 2-4. Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2024

(Number and percent)

| Detailed field | Master's students | | | | | Doctoral students | | | | | Postdoctoral appointees | | | | | Doctorate-holding nonfaculty researchers | | | | |
|--|-------------------|--------|---------|--------|---------|-------------------|--------|---------|--------|---------|-------------------------|--------|---------|--------|---------|--|--------|---------|--------|---------|
| | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | |
| | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent |
| Geological and earth sciences | 3,021 | 1,505 | 49.8 | 1,516 | 50.2 | 4,280 | 2,110 | 49.3 | 2,170 | 50.7 | 958 | 560 | 58.5 | 398 | 41.5 | 1,069 | 695 | 65.0 | 374 | 35.0 |
| Ocean and marine sciences | 1,408 | 462 | 32.8 | 946 | 67.2 | 1,556 | 585 | 37.6 | 971 | 62.4 | 477 | 266 | 55.8 | 211 | 44.2 | 359 | 212 | 59.1 | 147 | 40.9 |
| Geosciences, atmospheric, and ocean sciences nec | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 312 | 166 | 53.2 | 146 | 46.8 | 400 | 262 | 65.5 | 138 | 34.5 |
| Mathematics and statistics | 19,948 | 12,395 | 62.1 | 7,553 | 37.9 | 14,031 | 9,831 | 70.1 | 4,200 | 29.9 | 1,238 | 935 | 75.5 | 303 | 24.5 | 199 | 125 | 62.8 | 74 | 37.2 |
| Applied mathematics | 9,172 | 6,025 | 65.7 | 3,147 | 34.3 | 2,168 | 1,483 | 68.4 | 685 | 31.6 | 211 | 167 | 79.1 | 44 | 20.9 | 64 | 43 | 67.2 | 21 | 32.8 |
| Mathematics | 3,738 | 2,239 | 59.9 | 1,499 | 40.1 | 8,303 | 6,067 | 73.1 | 2,236 | 26.9 | 823 | 625 | 75.9 | 198 | 24.1 | 100 | 61 | 61.0 | 39 | 39.0 |
| Statistics | 7,038 | 4,131 | 58.7 | 2,907 | 41.3 | 3,560 | 2,281 | 64.1 | 1,279 | 35.9 | 204 | 143 | 70.1 | 61 | 29.9 | 35 | 21 | 60.0 | 14 | 40.0 |
| Multidisciplinary and interdisciplinary sciences | 26,426 | 13,790 | 52.2 | 12,636 | 47.8 | 5,215 | 2,395 | 45.9 | 2,820 | 54.1 | 1,061 | 571 | 53.8 | 490 | 46.2 | 890 | 532 | 59.8 | 358 | 40.2 |
| Biological and physical sciences | 810 | 322 | 39.8 | 488 | 60.2 | 1,037 | 453 | 43.7 | 584 | 56.3 | 55 | 32 | 58.2 | 23 | 41.8 | 45 | 33 | 73.3 | 12 | 26.7 |
| Computational science | 2,880 | 1,816 | 63.1 | 1,064 | 36.9 | 387 | 270 | 69.8 | 117 | 30.2 | 39 | 25 | 64.1 | 14 | 35.9 | 72 | 47 | 65.3 | 25 | 34.7 |
| Data science and data analytics | 14,140 | 8,721 | 61.7 | 5,419 | 38.3 | 374 | 249 | 66.6 | 125 | 33.4 | 113 | 60 | 53.1 | 53 | 46.9 | 71 | 43 | 60.6 | 28 | 39.4 |
| International and global studies | 903 | 292 | 32.3 | 611 | 67.7 | 142 | 60 | 42.3 | 82 | 57.7 | 48 | 29 | 60.4 | 19 | 39.6 | 19 | 9 | 47.4 | 10 | 52.6 |
| Multidisciplinary and interdisciplinary sciences nec | 7,693 | 2,639 | 34.3 | 5,054 | 65.7 | 3,275 | 1,363 | 41.6 | 1,912 | 58.4 | 806 | 425 | 52.7 | 381 | 47.3 | 683 | 400 | 58.6 | 283 | 41.4 |
| Natural resources and conservation | 9,150 | 3,577 | 39.1 | 5,573 | 60.9 | 4,182 | 1,755 | 42.0 | 2,427 | 58.0 | 969 | 493 | 50.9 | 476 | 49.1 | 649 | 375 | 57.8 | 274 | 42.2 |
| Environmental science and studies | 4,240 | 1,555 | 36.7 | 2,685 | 63.3 | 2,051 | 792 | 38.6 | 1,259 | 61.4 | 395 | 182 | 46.1 | 213 | 53.9 | 234 | 129 | 55.1 | 105 | 44.9 |
| Forestry, natural resources, and conservation | 4,910 | 2,022 | 41.2 | 2,888 | 58.8 | 2,131 | 963 | 45.2 | 1,168 | 54.8 | 574 | 311 | 54.2 | 263 | 45.8 | 415 | 246 | 59.3 | 169 | 40.7 |
| Physical sciences | 6,008 | 3,613 | 60.1 | 2,395 | 39.9 | 39,329 | 24,428 | 62.1 | 14,901 | 37.9 | 7,570 | 5,524 | 73.0 | 2,046 | 27.0 | 3,093 | 2,305 | 74.5 | 788 | 25.5 |
| Astronomy and astrophysics | 112 | 56 | 50.0 | 56 | 50.0 | 1,638 | 842 | 51.4 | 796 | 48.6 | 747 | 499 | 66.8 | 248 | 33.2 | 635 | 445 | 70.1 | 190 | 29.9 |
| Chemistry | 2,764 | 1,315 | 47.6 | 1,449 | 52.4 | 20,712 | 11,246 | 54.3 | 9,466 | 45.7 | 3,471 | 2,453 | 70.7 | 1,018 | 29.3 | 877 | 611 | 69.7 | 266 | 30.3 |
| Materials sciences | 435 | 298 | 68.5 | 137 | 31.5 | 1,208 | 803 | 66.5 | 405 | 33.5 | 255 | 187 | 73.3 | 68 | 26.7 | 70 | 52 | 74.3 | 18 | 25.7 |
| Physics | 2,289 | 1,748 | 76.4 | 541 | 23.6 | 15,226 | 11,220 | 73.7 | 4,006 | 26.3 | 2,800 | 2,174 | 77.6 | 626 | 22.4 | 1,150 | 919 | 79.9 | 231 | 20.1 |
| Physical sciences nec | 408 | 196 | 48.0 | 212 | 52.0 | 545 | 317 | 58.2 | 228 | 41.8 | 297 | 211 | 71.0 | 86 | 29.0 | 361 | 278 | 77.0 | 83 | 23.0 |
| Psychology | 49,516 | 8,914 | 18.0 | 40,602 | 82.0 | 23,408 | 5,350 | 22.9 | 18,058 | 77.1 | 1,392 | 486 | 34.9 | 906 | 65.1 | 892 | 287 | 32.2 | 605 | 67.8 |
| Applied psychology | 20,306 | 3,485 | 17.2 | 16,821 | 82.8 | 4,609 | 1,041 | 22.6 | 3,568 | 77.4 | 127 | 33 | 26.0 | 94 | 74.0 | 104 | 29 | 27.9 | 75 | 72.1 |
| Clinical psychology | 4,477 | 914 | 20.4 | 3,563 | 79.6 | 3,337 | 635 | 19.0 | 2,702 | 81.0 | 65 | 9 | 13.8 | 56 | 86.2 | 17 | 6 | 35.3 | 11 | 64.7 |
| Counseling psychology | 13,289 | 2,271 | 17.1 | 11,018 | 82.9 | 2,785 | 518 | 18.6 | 2,267 | 81.4 | 16 | 3 | 18.8 | 13 | 81.3 | 8 | 3 | 37.5 | 5 | 62.5 |
| Human development | 1,295 | 116 | 9.0 | 1,179 | 91.0 | 705 | 97 | 13.8 | 608 | 86.2 | 117 | 36 | 30.8 | 81 | 69.2 | 156 | 40 | 25.6 | 116 | 74.4 |
| Psychology, general | 7,369 | 1,581 | 21.5 | 5,788 | 78.5 | 6,405 | 1,612 | 25.2 | 4,793 | 74.8 | 760 | 279 | 36.7 | 481 | 63.3 | 415 | 146 | 35.2 | 269 | 64.8 |
| Research and experimental psychology | 2,780 | 547 | 19.7 | 2,233 | 80.3 | 5,567 | 1,447 | 26.0 | 4,120 | 74.0 | 307 | 126 | 41.0 | 181 | 59.0 | 192 | 63 | 32.8 | 129 | 67.2 |
| Social sciences | 40,520 | 17,575 | 43.4 | 22,945 | 56.6 | 32,465 | 15,195 | 46.8 | 17,270 | 53.2 | 1,976 | 903 | 45.7 | 1,073 | 54.3 | 1,908 | 865 | 45.3 | 1,043 | 54.7 |
| Agricultural and natural resource economics | 451 | 235 | 52.1 | 216 | 47.9 | 257 | 125 | 48.6 | 132 | 51.4 | 77 | 41 | 53.2 | 36 | 46.8 | 41 | 27 | 65.9 | 14 | 34.1 |
| Anthropology | 2,023 | 570 | 28.2 | 1,453 | 71.8 | 3,740 | 1,234 | 33.0 | 2,506 | 67.0 | 173 | 58 | 33.5 | 115 | 66.5 | 75 | 26 | 34.7 | 49 | 65.3 |
| Area, ethnic, cultural, gender, and group studies | 2,421 | 794 | 32.8 | 1,627 | 67.2 | 2,372 | 813 | 34.3 | 1,559 | 65.7 | 280 | 98 | 35.0 | 182 | 65.0 | 183 | 76 | 41.5 | 107 | 58.5 |
| Criminal justice and safety studies | 4,924 | 1,732 | 35.2 | 3,192 | 64.8 | 1,508 | 644 | 42.7 | 864 | 57.3 | 12 | 5 | 41.7 | 7 | 58.3 | 23 | 9 | 39.1 | 14 | 60.9 |
| Criminology | 1,113 | 332 | 29.8 | 781 | 70.2 | 344 | 107 | 31.1 | 237 | 68.9 | 8 | 6 | 75.0 | 2 | 25.0 | 10 | 5 | 50.0 | 5 | 50.0 |
| Economics (except agricultural and natural resource) | 6,350 | 3,646 | 57.4 | 2,704 | 42.6 | 8,150 | 5,059 | 62.1 | 3,091 | 37.9 | 181 | 114 | 63.0 | 67 | 37.0 | 139 | 88 | 63.3 | 51 | 36.7 |

Table 2-4. Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2024

(Number and percent)

| Detailed field | Master's students | | | | | Doctoral students | | | | | Postdoctoral appointees | | | | | Doctorate-holding nonfaculty researchers | | | | |
|--|-------------------|--------|---------|--------|---------|-------------------|--------|---------|--------|---------|-------------------------|--------|---------|--------|---------|--|--------|---------|--------|---------|
| | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | |
| | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent |
| Geography and cartography | 2,309 | 1,279 | 55.4 | 1,030 | 44.6 | 1,169 | 561 | 48.0 | 608 | 52.0 | 134 | 72 | 53.7 | 62 | 46.3 | 114 | 73 | 64.0 | 41 | 36.0 |
| International relations and national security studies | 6,996 | 3,564 | 50.9 | 3,432 | 49.1 | 320 | 169 | 52.8 | 151 | 47.2 | 95 | 56 | 58.9 | 39 | 41.1 | 103 | 69 | 67.0 | 34 | 33.0 |
| Linguistics | 952 | 315 | 33.1 | 637 | 66.9 | 1,600 | 668 | 41.8 | 932 | 58.3 | 66 | 31 | 47.0 | 35 | 53.0 | 53 | 26 | 49.1 | 27 | 50.9 |
| Political science and government | 2,506 | 1,316 | 52.5 | 1,190 | 47.5 | 4,931 | 2,628 | 53.3 | 2,303 | 46.7 | 172 | 88 | 51.2 | 84 | 48.8 | 94 | 45 | 47.9 | 49 | 52.1 |
| Public policy analysis | 4,491 | 1,788 | 39.8 | 2,703 | 60.2 | 2,663 | 1,272 | 47.8 | 1,391 | 52.2 | 350 | 150 | 42.9 | 200 | 57.1 | 518 | 189 | 36.5 | 329 | 63.5 |
| Sociology and population studies | 1,965 | 534 | 27.2 | 1,431 | 72.8 | 4,346 | 1,486 | 34.2 | 2,860 | 65.8 | 206 | 97 | 47.1 | 109 | 52.9 | 227 | 99 | 43.6 | 128 | 56.4 |
| Urban studies and affairs | 529 | 200 | 37.8 | 329 | 62.2 | 284 | 122 | 43.0 | 162 | 57.0 | 27 | 8 | 29.6 | 19 | 70.4 | 51 | 24 | 47.1 | 27 | 52.9 |
| Social sciences, other | 3,490 | 1,270 | 36.4 | 2,220 | 63.6 | 781 | 307 | 39.3 | 474 | 60.7 | 195 | 79 | 40.5 | 116 | 59.5 | 277 | 109 | 39.4 | 168 | 60.6 |
| Engineering | 99,571 | 72,693 | 73.0 | 26,878 | 27.0 | 76,441 | 53,194 | 69.6 | 23,247 | 30.4 | 9,545 | 6,874 | 72.0 | 2,671 | 28.0 | 4,436 | 3,283 | 74.0 | 1,153 | 26.0 |
| Aerospace, aeronautical, and astronautical engineering | 5,563 | 4,487 | 80.7 | 1,076 | 19.3 | 3,032 | 2,438 | 80.4 | 594 | 19.6 | 246 | 209 | 85.0 | 37 | 15.0 | 167 | 136 | 81.4 | 31 | 18.6 |
| Biological, biomedical, and biosystems engineering | 5,475 | 2,759 | 50.4 | 2,716 | 49.6 | 10,330 | 5,240 | 50.7 | 5,090 | 49.3 | 1,685 | 1,005 | 59.6 | 680 | 40.4 | 680 | 402 | 59.1 | 278 | 40.9 |
| Chemical, petroleum, and chemical-related engineering | 2,664 | 1,773 | 66.6 | 891 | 33.4 | 7,935 | 5,068 | 63.9 | 2,867 | 36.1 | 1,552 | 1,085 | 69.9 | 467 | 30.1 | 363 | 258 | 71.1 | 105 | 28.9 |
| Chemical engineering | 2,258 | 1,449 | 64.2 | 809 | 35.8 | 7,477 | 4,703 | 62.9 | 2,774 | 37.1 | 1,514 | 1,054 | 69.6 | 460 | 30.4 | 317 | 221 | 69.7 | 96 | 30.3 |
| Petroleum engineering | 406 | 324 | 79.8 | 82 | 20.2 | 458 | 365 | 79.7 | 93 | 20.3 | 38 | 31 | 81.6 | 7 | 18.4 | 46 | 37 | 80.4 | 9 | 19.6 |
| Civil, environmental, transportation and related engineering fields | 11,360 | 7,445 | 65.5 | 3,915 | 34.5 | 7,899 | 5,138 | 65.0 | 2,761 | 35.0 | 1,166 | 802 | 68.8 | 364 | 31.2 | 583 | 439 | 75.3 | 144 | 24.7 |
| Civil engineering | 8,685 | 5,891 | 67.8 | 2,794 | 32.2 | 6,740 | 4,535 | 67.3 | 2,205 | 32.7 | 1,063 | 737 | 69.3 | 326 | 30.7 | 497 | 372 | 74.8 | 125 | 25.2 |
| Architectural, environmental, construction and surveying engineering | 2,675 | 1,554 | 58.1 | 1,121 | 41.9 | 1,159 | 603 | 52.0 | 556 | 48.0 | 103 | 65 | 63.1 | 38 | 36.9 | 86 | 67 | 77.9 | 19 | 22.1 |
| Electrical, electronics, communications and computer engineering | 30,841 | 23,508 | 76.2 | 7,333 | 23.8 | 17,774 | 13,944 | 78.5 | 3,830 | 21.5 | 1,381 | 1,110 | 80.4 | 271 | 19.6 | 698 | 572 | 81.9 | 126 | 18.1 |
| Electrical, electronics, and communications engineering | 18,216 | 14,461 | 79.4 | 3,755 | 20.6 | 14,705 | 11,539 | 78.5 | 3,166 | 21.5 | 1,288 | 1,039 | 80.7 | 249 | 19.3 | 630 | 517 | 82.1 | 113 | 17.9 |
| Computer engineering | 12,625 | 9,047 | 71.7 | 3,578 | 28.3 | 3,069 | 2,405 | 78.4 | 664 | 21.6 | 93 | 71 | 76.3 | 22 | 23.7 | 68 | 55 | 80.9 | 13 | 19.1 |
| Industrial, manufacturing, systems engineering and operations research | 11,704 | 8,245 | 70.4 | 3,459 | 29.6 | 4,046 | 2,726 | 67.4 | 1,320 | 32.6 | 162 | 119 | 73.5 | 43 | 26.5 | 164 | 121 | 73.8 | 43 | 26.2 |
| Industrial and manufacturing engineering | 5,044 | 3,704 | 73.4 | 1,340 | 26.6 | 2,378 | 1,569 | 66.0 | 809 | 34.0 | 98 | 78 | 79.6 | 20 | 20.4 | 84 | 66 | 78.6 | 18 | 21.4 |
| Systems engineering and operations research | 6,660 | 4,541 | 68.2 | 2,119 | 31.8 | 1,668 | 1,157 | 69.4 | 511 | 30.6 | 64 | 41 | 64.1 | 23 | 35.9 | 80 | 55 | 68.8 | 25 | 31.3 |
| Mechanical engineering | 15,136 | 12,561 | 83.0 | 2,575 | 17.0 | 11,858 | 9,251 | 78.0 | 2,607 | 22.0 | 1,459 | 1,165 | 79.8 | 294 | 20.2 | 566 | 469 | 82.9 | 97 | 17.1 |
| Metallurgical, mining, materials and related engineering fields | 2,503 | 1,719 | 68.7 | 784 | 31.3 | 4,858 | 3,270 | 67.3 | 1,588 | 32.7 | 588 | 444 | 75.5 | 144 | 24.5 | 260 | 202 | 77.7 | 58 | 22.3 |
| Other engineering | 14,325 | 10,196 | 71.2 | 4,129 | 28.8 | 8,709 | 6,119 | 70.3 | 2,590 | 29.7 | 1,306 | 935 | 71.6 | 371 | 28.4 | 955 | 684 | 71.6 | 271 | 28.4 |
| Agricultural engineering | 387 | 219 | 56.6 | 168 | 43.4 | 675 | 439 | 65.0 | 236 | 35.0 | 162 | 109 | 67.3 | 53 | 32.7 | 51 | 34 | 66.7 | 17 | 33.3 |
| Engineering mechanics, physics, and science | 663 | 483 | 72.9 | 180 | 27.1 | 1,674 | 1,174 | 70.1 | 500 | 29.9 | 279 | 213 | 76.3 | 66 | 23.7 | 185 | 143 | 77.3 | 42 | 22.7 |
| Nuclear engineering | 566 | 463 | 81.8 | 103 | 18.2 | 1,141 | 858 | 75.2 | 283 | 24.8 | 112 | 91 | 81.3 | 21 | 18.8 | 32 | 23 | 71.9 | 9 | 28.1 |
| Engineering, other | 12,709 | 9,031 | 71.1 | 3,678 | 28.9 | 5,219 | 3,648 | 69.9 | 1,571 | 30.1 | 753 | 522 | 69.3 | 231 | 30.7 | 687 | 484 | 70.5 | 203 | 29.5 |
| Health | 58,890 | 12,373 | 21.0 | 46,517 | 79.0 | 18,809 | 5,766 | 30.7 | 13,043 | 69.3 | 20,630 | 9,941 | 48.2 | 10,689 | 51.8 | 10,140 | 4,570 | 45.1 | 5,570 | 54.9 |
| Clinical medicine | 26,645 | 6,294 | 23.6 | 20,351 | 76.4 | 6,399 | 1,775 | 27.7 | 4,624 | 72.3 | 17,919 | 8,721 | 48.7 | 9,198 | 51.3 | 8,618 | 3,927 | 45.6 | 4,691 | 54.4 |
| Medical clinical sciences and clinical and medical laboratory sciences | 1,307 | 486 | 37.2 | 821 | 62.8 | 730 | 259 | 35.5 | 471 | 64.5 | 650 | 316 | 48.6 | 334 | 51.4 | 383 | 150 | 39.2 | 233 | 60.8 |
| Public health | 25,338 | 5,808 | 22.9 | 19,530 | 77.1 | 5,669 | 1,516 | 26.7 | 4,153 | 73.3 | 887 | 299 | 33.7 | 588 | 66.3 | 799 | 271 | 33.9 | 528 | 66.1 |
| Anesthesiology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 453 | 228 | 50.3 | 225 | 49.7 | 181 | 97 | 53.6 | 84 | 46.4 |
| Cardiology and cardiovascular disease | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 667 | 360 | 54.0 | 307 | 46.0 | 230 | 122 | 53.0 | 108 | 47.0 |

Table 2-4. Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2024

(Number and percent)

| Detailed field | Master's students | | | | | Doctoral students | | | | | Postdoctoral appointees | | | | | Doctorate-holding nonfaculty researchers | | | | |
|---|-------------------|--------|---------|--------|---------|-------------------|--------|---------|--------|---------|-------------------------|--------|---------|--------|---------|--|--------|---------|--------|---------|
| | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | | Total | Male | | Female | |
| | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent | | Number | Percent | Number | Percent |
| Endocrinology, diabetes, and metabolism | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 325 | 157 | 48.3 | 168 | 51.7 | 123 | 49 | 39.8 | 74 | 60.2 |
| Gastroenterology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 240 | 118 | 49.2 | 122 | 50.8 | 76 | 39 | 51.3 | 37 | 48.7 |
| Hematology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 359 | 177 | 49.3 | 182 | 50.7 | 174 | 77 | 44.3 | 97 | 55.7 |
| Neurology and neurosurgery | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,890 | 957 | 50.6 | 933 | 49.4 | 730 | 344 | 47.1 | 386 | 52.9 |
| Obstetrics and gynecology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 303 | 111 | 36.6 | 192 | 63.4 | 137 | 36 | 26.3 | 101 | 73.7 |
| Oncology and cancer research | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,595 | 793 | 49.7 | 802 | 50.3 | 642 | 255 | 39.7 | 387 | 60.3 |
| Ophthalmology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 618 | 301 | 48.7 | 317 | 51.3 | 349 | 184 | 52.7 | 165 | 47.3 |
| Otorhinolaryngology | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 291 | 153 | 52.6 | 138 | 47.4 | 180 | 81 | 45.0 | 99 | 55.0 |
| Pediatrics | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,306 | 535 | 41.0 | 771 | 59.0 | 769 | 327 | 42.5 | 442 | 57.5 |
| Psychiatry | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,164 | 424 | 36.4 | 740 | 63.6 | 424 | 177 | 41.7 | 247 | 58.3 |
| Pulmonary disease | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 278 | 144 | 51.8 | 134 | 48.2 | 107 | 44 | 41.1 | 63 | 58.9 |
| Radiological sciences | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,465 | 867 | 59.2 | 598 | 40.8 | 555 | 347 | 62.5 | 208 | 37.5 |
| Surgery | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 1,409 | 784 | 55.6 | 625 | 44.4 | 697 | 386 | 55.4 | 311 | 44.6 |
| Clinical medicine nec | ne | ne | ne | ne | ne | ne | ne | ne | ne | ne | 4,019 | 1,997 | 49.7 | 2,022 | 50.3 | 2,062 | 941 | 45.6 | 1,121 | 54.4 |
| Other health | 32,245 | 6,079 | 18.9 | 26,166 | 81.1 | 12,410 | 3,991 | 32.2 | 8,419 | 67.8 | 2,711 | 1,220 | 45.0 | 1,491 | 55.0 | 1,522 | 643 | 42.2 | 879 | 57.8 |
| Communication disorders sciences | 16,986 | 672 | 4.0 | 16,314 | 96.0 | 730 | 147 | 20.1 | 583 | 79.9 | 105 | 34 | 32.4 | 71 | 67.6 | 103 | 23 | 22.3 | 80 | 77.7 |
| Dental sciences | 1,420 | 642 | 45.2 | 778 | 54.8 | 800 | 304 | 38.0 | 496 | 62.0 | 308 | 160 | 51.9 | 148 | 48.1 | 159 | 81 | 50.9 | 78 | 49.1 |
| Kinesiology and exercise science | 4,027 | 1,985 | 49.3 | 2,042 | 50.7 | 963 | 468 | 48.6 | 495 | 51.4 | 83 | 36 | 43.4 | 47 | 56.6 | 63 | 30 | 47.6 | 33 | 52.4 |
| Nursing science | 1,550 | 203 | 13.1 | 1,347 | 86.9 | 3,386 | 547 | 16.2 | 2,839 | 83.8 | 173 | 34 | 19.7 | 139 | 80.3 | 180 | 33 | 18.3 | 147 | 81.7 |
| Pharmaceutical sciences | 2,355 | 814 | 34.6 | 1,541 | 65.4 | 3,100 | 1,347 | 43.5 | 1,753 | 56.5 | 1,528 | 733 | 48.0 | 795 | 52.0 | 523 | 291 | 55.6 | 232 | 44.4 |
| Other health nec | 5,907 | 1,763 | 29.8 | 4,144 | 70.2 | 3,431 | 1,178 | 34.3 | 2,253 | 65.7 | 514 | 223 | 43.4 | 291 | 56.6 | 494 | 185 | 37.4 | 309 | 62.6 |

ne = not eligible.

nec = not elsewhere classified.

Note(s):

For postdoctoral appointees and doctorate-holding nonfaculty researchers, "field" refers to the field of the unit that reports information on these groups to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS fields and codes, see table A-6. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2024.