

TABLE 6-5

Male research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2023

(Number)

| Field of doctorate | Male doctorate recipients | Doctorate recipients with definite commitments | Location of definite commitments | | | | | | |
|--|---------------------------|--|----------------------------------|--------------------|---------------------|----------------------------------|--------------------|--------|---------|
| | | | United States | | | | | Abroad | Unknown |
| | | | Total | Postdoctoral study | Academic employment | Industry employment ^a | Other ^b | | |
| Male doctorate recipients reporting postgraduation commitments | 30,356 | 20,270 | 18,335 | 6,564 | 3,238 | 6,659 | 1,874 | 1,922 | 13 |
| Science and engineering | 25,480 | 17,190 | 15,608 | 6,143 | 1,822 | 6,377 | 1,266 | 1,573 | 9 |
| Agricultural sciences and natural resources | 572 | 382 | 353 | 168 | 60 | 81 | 44 | 29 | 0 |
| Agricultural, animal, plant, and veterinary sciences | 371 | 248 | 224 | 111 | 36 | 60 | 17 | 24 | 0 |
| Natural resources and conservation | 201 | 134 | 129 | 57 | 24 | 21 | 27 | 5 | 0 |
| Biological and biomedical sciences | 4,433 | 2,780 | 2,649 | 1,571 | 216 | 718 | 144 | 131 | 0 |
| Biochemistry, biophysics, and molecular biology | 780 | 497 | 481 | 276 | 27 | 165 | 13 | 16 | 0 |
| Bioinformatics, biostatistics, and computational biology | 413 | 279 | 271 | 95 | 25 | 132 | 19 | 8 | 0 |
| Biological and biomedical sciences, general | 370 | 202 | 191 | 123 | 19 | 37 | 12 | 11 | 0 |
| Cell/ cellular biology and anatomy | 313 | 165 | 157 | 102 | 18 | 34 | 3 | 8 | 0 |
| Ecology, evolutionary biology, and epidemiology | 447 | 314 | 287 | 173 | 31 | 42 | 41 | 27 | 0 |
| Genetics and genomics | 225 | 127 | D | 76 | D | 32 | 8 | D | 0 |
| Microbiology and immunology | 495 | 313 | 304 | 207 | 16 | 73 | 8 | 9 | 0 |
| Neurobiology and neurosciences | 524 | 321 | 308 | 207 | 12 | 76 | 13 | 13 | 0 |
| Pharmacology and toxicology | 180 | 115 | D | 56 | D | 42 | 8 | D | 0 |
| Physiology, oncology, and cancer biology | 413 | 262 | 251 | 149 | 36 | 58 | 8 | 11 | 0 |
| Biological and biomedical sciences, other | 273 | 185 | 167 | 107 | 22 | 27 | 11 | 18 | 0 |
| Computer and information sciences | 1,710 | 1,214 | 1,109 | 204 | 170 | 666 | 69 | 102 | 3 |
| Computer science | 1,234 | 885 | 809 | 145 | 114 | 508 | 42 | 75 | 1 |
| Computer and information sciences, other | 476 | 329 | 300 | 59 | 56 | 158 | 27 | 27 | 2 |
| Engineering | 7,873 | 5,264 | 4,850 | 1,411 | 297 | 2,768 | 374 | 413 | 1 |
| Aerospace, aeronautical, astronautical, and space engineering | 489 | 346 | 328 | 80 | 34 | 149 | 65 | 18 | 0 |
| Biological, biomedical, and biosystems engineering | 743 | 437 | 420 | 187 | 27 | 189 | 17 | 17 | 0 |

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| | | | Total | Postdoctoral study | Academic employment | Industry employment ^a | Other ^b | | |
| Chemical and petroleum engineering | 889 | 597 | 543 | 165 | 9 | 355 | 14 | 54 | 0 |
| Civil, environmental, and transportation engineering | 863 | 579 | 516 | 185 | 40 | 242 | 49 | 63 | 0 |
| Electrical and computer engineering | 1,719 | 1,219 | 1,110 | 195 | 58 | 776 | 81 | 109 | 0 |
| Engineering technologies | 317 | 212 | 189 | 53 | 9 | 121 | 6 | 23 | 0 |
| Industrial engineering and operations research | 436 | 299 | 272 | 56 | 35 | 151 | 30 | 27 | 0 |
| Materials and mining engineering | 649 | 436 | 402 | 144 | 10 | 227 | 21 | 34 | 0 |
| Mechanical engineering | 1,277 | 824 | 770 | 248 | 54 | 413 | 55 | 54 | 0 |
| Engineering, other | 491 | 315 | 300 | 98 | 21 | 145 | 36 | 14 | 1 |
| Geosciences, atmospheric, and ocean sciences | 668 | 491 | 445 | 281 | 39 | 79 | 46 | 45 | 1 |
| Geological and earth sciences | 384 | 281 | 252 | 139 | 26 | 56 | 31 | 28 | 1 |
| Ocean, marine, and atmospheric sciences | 284 | 210 | 193 | 142 | 13 | 23 | 15 | 17 | 0 |
| Health sciences | 789 | 529 | 476 | 188 | 100 | 126 | 62 | 53 | 0 |
| Nursing and nursing science | 69 | 47 | 39 | 5 | D | D | 10 | 8 | 0 |
| Pharmacy and pharmaceutical sciences | 211 | 145 | 129 | 56 | D | D | 4 | 16 | 0 |
| Public health | 218 | 154 | 139 | 67 | 25 | 20 | 27 | 15 | 0 |
| Health sciences, other | 291 | 183 | 169 | 60 | 51 | 37 | 21 | 14 | 0 |
| Mathematics and statistics | 1,480 | 1,030 | 890 | 377 | 142 | 318 | 53 | 139 | 1 |
| Applied mathematics | 342 | 249 | 227 | 102 | 18 | 92 | 15 | 22 | 0 |
| Mathematics | 703 | 446 | 357 | 199 | 79 | 63 | 16 | 89 | 0 |
| Statistics | 435 | 335 | 306 | 76 | 45 | 163 | 22 | 28 | 1 |
| Multidisciplinary/interdisciplinary sciences | 1,044 | 762 | 701 | 193 | 106 | 352 | 50 | 60 | 1 |
| Interdisciplinary computer sciences | 409 | 307 | 289 | 64 | 42 | 162 | 21 | 17 | 1 |
| Multidisciplinary/interdisciplinary sciences, other | 635 | 455 | 412 | 129 | 64 | 190 | 29 | 43 | 0 |
| Physical sciences | 3,594 | 2,410 | 2,179 | 1,052 | 117 | 918 | 92 | 231 | 0 |
| Astronomy and astrophysics | 219 | 170 | 143 | D | D | 22 | 8 | 27 | 0 |
| Chemistry | 1,550 | 1,031 | 964 | 415 | 56 | 458 | 35 | 67 | 0 |
| Materials sciences | 248 | 164 | 157 | D | D | 82 | 8 | 7 | 0 |
| Physics | 1,577 | 1,045 | 915 | 473 | 45 | 356 | 41 | 130 | 0 |
| Psychology | 885 | 581 | 557 | 291 | 103 | 87 | 76 | 24 | 0 |
| Clinical psychology | 242 | 183 | D | 144 | 14 | D | 16 | D | 0 |

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|---|---------------------------|--|----------------------------------|--------------------|---------------------|----------------------------------|--------------------|--------|---------|
| | | | United States | | | | | Abroad | Unknown |
| | | | Total | Postdoctoral study | Academic employment | Industry employment ^a | Other ^b | | |
| Counseling and applied psychology | 288 | 194 | 184 | 65 | 37 | 39 | 43 | 10 | 0 |
| Research and experimental psychology | 245 | 158 | D | 63 | 40 | D | 13 | D | 0 |
| Psychology, other | 110 | 46 | D | 19 | 12 | D | 4 | D | 0 |
| Social sciences | 2,432 | 1,747 | 1,399 | 407 | 472 | 264 | 256 | 346 | 2 |
| Anthropology | 134 | 82 | 64 | 27 | 24 | 10 | 3 | 18 | 0 |
| Area, ethnic, cultural, gender, and group studies | 155 | 96 | 85 | 38 | 37 | 0 | 10 | 11 | 0 |
| Economics | 907 | 712 | 520 | 110 | 145 | 162 | 103 | 191 | 1 |
| Political science and government | 384 | 272 | 236 | 85 | 92 | 24 | 35 | 36 | 0 |
| Public policy analysis | 161 | 109 | 97 | 18 | 21 | 18 | 40 | 11 | 1 |
| Sociology, demography, and population studies | 240 | 180 | 154 | 59 | 66 | 10 | 19 | 26 | 0 |
| Social sciences, other | 451 | 296 | 243 | 70 | 87 | 40 | 46 | 53 | 0 |
| Non-science and engineering | 4,876 | 3,080 | 2,727 | 421 | 1,416 | 282 | 608 | 349 | 4 |
| Business | 822 | 608 | 507 | 45 | 337 | 82 | 43 | 99 | 2 |
| Business administration and management | 265 | 166 | 137 | 14 | 76 | 31 | 16 | 28 | 1 |
| Business, other | 557 | 442 | 370 | 31 | 261 | 51 | 27 | 71 | 1 |
| Education | 1,089 | 735 | 694 | 61 | 324 | 53 | 256 | 41 | 0 |
| Education leadership and administration | 396 | 296 | 280 | 16 | 122 | 14 | 128 | 16 | 0 |
| Education research | 317 | 200 | 190 | 17 | 83 | 31 | 59 | 10 | 0 |
| Teacher education and teaching fields | 273 | 179 | D | 19 | 90 | D | 52 | D | 0 |
| Education, other | 103 | 60 | D | 9 | 29 | D | 17 | D | 0 |
| Humanities | 1,731 | 1,008 | 885 | 218 | 416 | 56 | 195 | 122 | 1 |
| English language and literature, letters | 420 | 245 | 225 | 37 | 134 | 21 | 33 | 19 | 1 |
| Foreign languages, literatures, and linguistics | 233 | 125 | D | 25 | 66 | D | 17 | D | 0 |
| History | 404 | 236 | 211 | 69 | 83 | 5 | 54 | 25 | 0 |
| Philosophy and religious studies | 397 | 250 | 208 | 77 | 82 | 15 | 34 | 42 | 0 |
| Humanities, other | 277 | 152 | D | 10 | 51 | D | 57 | D | 0 |
| Visual and performing arts | 356 | 181 | 160 | 20 | 95 | 25 | 20 | 21 | 0 |
| Performing arts | 257 | 120 | 109 | 7 | 67 | 20 | 15 | 11 | 0 |
| Visual arts, media studies, and design | 99 | 61 | 51 | 13 | 28 | 5 | 5 | 10 | 0 |
| Other non-science and engineering | 878 | 548 | 481 | 77 | 244 | 66 | 94 | 66 | 1 |
| Communications and journalism | 247 | 161 | 144 | 23 | 96 | 14 | 11 | 17 | 0 |

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|---|---------------------------|--|----------------------------------|--------------------|---------------------|----------------------------------|--------------------|--------|---------|
| | | | United States | | | | | Abroad | Unknown |
| | | | Total | Postdoctoral study | Academic employment | Industry employment ^a | Other ^b | | |
| Multidisciplinary/interdisciplinary studies | 160 | 94 | 84 | 11 | 43 | 8 | 22 | 10 | 0 |
| Public administration and social services | 143 | 96 | 85 | 14 | 27 | 15 | 29 | 11 | 0 |
| Non-science and engineering, other | 328 | 197 | 168 | 29 | 78 | 29 | 32 | 28 | 1 |

D = suppressed to avoid disclosure of confidential information.

^a Industry employment includes doctorate recipients reporting self-employment.^b Other includes doctorate recipients reporting government, nonprofit, elementary or secondary school, or other employment and those with unknown employment.**Note(s):**

A definite postgraduation commitment includes accepting new employment or a postdoctoral study (postdoc) position or returning to predoctoral employment. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.