

TABLE 16. Doctorate recipients, by sex and subfield of study: 2013

| Subfield of study | Total ^a | Male | Female | % female |
|---|--------------------|--------|--------|----------|
| All fields | 52,760 | 28,353 | 24,396 | 46.2 |
| Life sciences | 12,305 | 5,495 | 6,807 | 55.3 |
| Agricultural sciences and natural resources | 1,329 | 705 | 624 | 47.0 |
| Agricultural economics | 108 | 71 | 37 | 34.3 |
| Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other | 291 | 167 | 124 | 42.6 |
| Animal breeding, animal nutrition, poultry science | 85 | 47 | 38 | 44.7 |
| Animal science, other | 86 | 41 | 45 | 52.3 |
| Environmental science | 206 | 97 | 109 | 52.9 |
| Fishing and fisheries sciences/management | 53 | 38 | 15 | 28.3 |
| Food science, food technology-other | 153 | 57 | 96 | 62.7 |
| Forest biology, forest management, wood science, forestry sciences-other | 97 | 62 | 35 | 36.1 |
| Natural resources/conservation | 92 | 46 | 46 | 50.0 |
| Soil chemistry, soil sciences-other | 66 | 32 | 34 | 51.5 |
| Wildlife/range management | 41 | 19 | 22 | 53.7 |
| Agricultural sciences, aggregated | 51 | 28 | 23 | 45.1 |
| Biological, biomedical sciences | 8,471 | 3,981 | 4,487 | 53.0 |
| Anatomy, developmental biology | 213 | 95 | 118 | 55.4 |
| Bacteriology, parasitology | 54 | 26 | 28 | 51.9 |
| Biochemistry | 829 | 421 | 406 | 49.0 |
| Bioinformatics | 160 | 111 | 49 | 30.6 |
| Biomedical sciences | 403 | 168 | 235 | 58.3 |
| Biometrics and biostatistics | 145 | 76 | 69 | 47.6 |
| Biophysics (biology) | 179 | 115 | 64 | 35.8 |
| Botany, plant pathology, plant physiology | 138 | 67 | 71 | 51.4 |
| Cancer biology | 380 | 173 | 207 | 54.5 |
| Cell/cellular biology and histology | 314 | 157 | 157 | 50.0 |
| Computational biology | 115 | 83 | 32 | 27.8 |
| Ecology | 471 | 213 | 258 | 54.8 |
| Endocrinology, human/animal pathology | 135 | 58 | 77 | 57.0 |
| Entomology | 118 | 58 | 60 | 50.8 |
| Environmental toxicology, toxicology | 132 | 55 | 77 | 58.3 |
| Evolutionary biology | 209 | 106 | 103 | 49.3 |
| Genetics-human/animal, plant genetics | 432 | 206 | 226 | 52.3 |
| Immunology | 471 | 205 | 266 | 56.5 |
| Marine biology and biological oceanography | 111 | 43 | 68 | 61.3 |
| Microbiology | 456 | 188 | 268 | 58.8 |
| Molecular biology | 646 | 299 | 347 | 53.7 |
| Neurosciences and neurobiology | 1,017 | 447 | 570 | 56.0 |
| Nutrition sciences | 176 | 43 | 133 | 75.6 |
| Pharmacology, human and animal | 288 | 135 | 153 | 53.1 |
| Physiology, human and animal | 208 | 116 | 91 | 43.8 |
| Structural biology | 67 | 40 | 27 | 40.3 |
| Virology | 163 | 70 | 93 | 57.1 |
| Zoology | 40 | 20 | 20 | 50.0 |
| Biology/biomedical sciences, general | 259 | 122 | 137 | 52.9 |
| Biotechnology, biology/biomedical sciences-other | 142 | 65 | 77 | 54.2 |
| Health sciences | 2,505 | 809 | 1,696 | 67.7 |
| Environmental health, public health | 502 | 152 | 350 | 69.7 |
| Epidemiology | 352 | 117 | 235 | 66.8 |
| Health policy analysis | 69 | 28 | 41 | 59.4 |
| Health systems/services administration | 89 | 41 | 48 | 53.9 |
| Kinesiology/exercise physiology | 215 | 121 | 94 | 43.7 |
| Medicinal/pharmaceutical sciences | 332 | 174 | 158 | 47.6 |

TABLE 16. Doctorate recipients, by sex and subfield of study: 2013

| Subfield of study | Total ^a | Male | Female | % female |
|--|--------------------|-------|--------|----------|
| Nursing science | 510 | 42 | 468 | 91.8 |
| Rehabilitation/therapeutic services | 85 | 28 | 57 | 67.1 |
| Speech-language pathology and audiology | 110 | 20 | 90 | 81.8 |
| Health sciences, aggregated | 241 | 86 | 155 | 64.3 |
| Physical sciences | 9,290 | 6,589 | 2,698 | 29.0 |
| Astronomy | 303 | 206 | 97 | 32.0 |
| Astronomy | 105 | 65 | 40 | 38.1 |
| Astrophysics | 185 | 135 | 50 | 27.0 |
| Astronomy, other | 13 | 6 | 7 | 53.8 |
| Atmospheric science and meteorology | 206 | 119 | 87 | 42.2 |
| Atmospheric physics, meteorology | 61 | 32 | 29 | 47.5 |
| Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other | 145 | 87 | 58 | 40.0 |
| Chemistry | 2,491 | 1,502 | 987 | 39.6 |
| Analytical chemistry | 418 | 216 | 202 | 48.3 |
| Inorganic chemistry | 299 | 175 | 124 | 41.5 |
| Organic chemistry | 644 | 417 | 227 | 35.2 |
| Physical chemistry | 354 | 231 | 123 | 34.7 |
| Polymer chemistry | 125 | 85 | 39 | 31.2 |
| Theoretical chemistry | 74 | 52 | 22 | 29.7 |
| Chemistry, general | 368 | 228 | 139 | 37.8 |
| Chemistry, other | 209 | 98 | 111 | 53.1 |
| Computer and information sciences | 1,897 | 1,549 | 348 | 18.3 |
| Computer science | 1,563 | 1,310 | 253 | 16.2 |
| Information science and systems | 152 | 105 | 47 | 30.9 |
| Robotics | 58 | 52 | 6 | 10.3 |
| Computer and information science, other | 124 | 82 | 42 | 33.9 |
| Geological and earth sciences | 490 | 279 | 211 | 43.1 |
| Geochemistry, mineralogy | 89 | 40 | 49 | 55.1 |
| Geology | 127 | 76 | 51 | 40.2 |
| Geomorphology, geological sciences-general, geological sciences-other | 109 | 58 | 51 | 46.8 |
| Geophysics and seismology | 112 | 75 | 37 | 33.0 |
| Paleontology, stratigraphy | 53 | 30 | 23 | 43.4 |
| Mathematics | 1,817 | 1,290 | 527 | 29.0 |
| Algebra | 151 | 111 | 40 | 26.5 |
| Analysis and functional analysis | 159 | 132 | 27 | 17.0 |
| Applied mathematics, computing theory | 477 | 328 | 149 | 31.2 |
| Geometry/geometric analysis | 118 | 98 | 20 | 16.9 |
| Logic, topology/foundations | 111 | 85 | 26 | 23.4 |
| Number theory | 79 | 63 | 16 | 20.3 |
| Operations research, mathematics/statistics-general, mathematics/statistics-other | 358 | 252 | 106 | 29.6 |
| Statistics (mathematics) | 364 | 221 | 143 | 39.3 |
| Ocean/marine sciences | 184 | 100 | 83 | 45.1 |
| Oceanography, chemical and physical | 92 | 45 | 47 | 51.1 |
| Ocean/marine sciences, aggregated | 92 | 55 | 36 | 39.1 |
| Physics | 1,902 | 1,544 | 358 | 18.8 |
| Acoustics, optics/phototonics | 196 | 162 | 34 | 17.3 |
| Applied physics | 181 | 146 | 35 | 19.3 |
| Atomic physics, polymer physics | 150 | 120 | 30 | 20.0 |
| Biophysics (physics) | 134 | 104 | 30 | 22.4 |
| Condensed matter/low temperature physics | 413 | 336 | 77 | 18.6 |

TABLE 16. Doctorate recipients, by sex and subfield of study: 2013

| Subfield of study | Total ^a | Male | Female | % female |
|---|--------------------|-------|--------|----------|
| Medical physics/radiological science | 93 | 69 | 24 | 25.8 |
| Nuclear physics | 76 | 60 | 16 | 21.1 |
| Particle (elementary) physics | 270 | 232 | 38 | 14.1 |
| Plasma/fusion physics | 71 | 62 | 9 | 12.7 |
| Physics, general | 191 | 147 | 44 | 23.0 |
| Physics, other | 127 | 106 | 21 | 16.5 |
| Psychology and social sciences | 8,401 | 3,419 | 4,981 | 59.3 |
| Psychology | 3,600 | 1,002 | 2,598 | 72.2 |
| Behavioral analysis | 54 | 16 | 38 | 70.4 |
| Clinical psychology | 1,144 | 253 | 891 | 77.9 |
| Cognitive psychology and psycholinguistics | 219 | 106 | 113 | 51.6 |
| Counseling | 424 | 106 | 318 | 75.0 |
| Developmental and child psychology | 227 | 35 | 192 | 84.6 |
| Educational psychology (psychology) | 60 | 11 | 49 | 81.7 |
| Experimental psychology | 141 | 59 | 82 | 58.2 |
| Family psychology, human development and family studies | 174 | 39 | 135 | 77.6 |
| Health and medical psychology | 65 | 12 | 53 | 81.5 |
| Industrial and organizational psychology | 214 | 73 | 141 | 65.9 |
| Neuropsychology/physiological psychology | 111 | 46 | 65 | 58.6 |
| School psychology (psychology) | 113 | 27 | 86 | 76.1 |
| Social psychology | 211 | 69 | 142 | 67.3 |
| Psychology, general | 232 | 80 | 152 | 65.5 |
| Psychology, aggregated | 211 | 70 | 141 | 66.8 |
| Social sciences | 4,801 | 2,417 | 2,383 | 49.6 |
| Anthropology | 552 | 189 | 363 | 65.8 |
| Economics, econometrics | 1,135 | 745 | 390 | 34.4 |
| Natural resource/environmental economics (social sciences) | 50 | 22 | 28 | 56.0 |
| Political science and government | 803 | 469 | 333 | 41.5 |
| Sociology | 636 | 259 | 377 | 59.3 |
| Other social sciences | 1,625 | 733 | 892 | 54.9 |
| Area/ethnic/cultural/gender studies | 97 | 28 | 69 | 71.1 |
| Criminal justice and corrections | 75 | 38 | 37 | 49.3 |
| Criminology | 76 | 35 | 41 | 53.9 |
| Demography, gerontology, statistics, urban affairs, social sciences-general, social sciences-other | 328 | 117 | 211 | 64.3 |
| Geography | 252 | 136 | 116 | 46.0 |
| International relations/affairs | 119 | 73 | 46 | 38.7 |
| Linguistics | 285 | 113 | 172 | 60.4 |
| Public policy analysis | 279 | 127 | 152 | 54.5 |
| Urban/city, community and regional planning | 114 | 66 | 48 | 42.1 |
| Engineering | 8,963 | 6,910 | 2,051 | 22.9 |
| Aerospace, aeronautical, and astronautical engineering | 349 | 294 | 55 | 15.8 |
| Chemical engineering | 829 | 569 | 260 | 31.4 |
| Civil engineering | 543 | 418 | 125 | 23.0 |
| Electrical, electronics, and communications engineering | 1,900 | 1,617 | 281 | 14.8 |
| Industrial and manufacturing engineering | 240 | 175 | 65 | 27.1 |
| Materials science engineering | 815 | 598 | 217 | 26.6 |
| Mechanical engineering | 1,282 | 1,085 | 197 | 15.4 |
| Other engineering | 3,005 | 2,154 | 851 | 28.3 |
| Bioengineering and biomedical engineering | 1,037 | 683 | 354 | 34.1 |
| Computer engineering | 418 | 361 | 57 | 13.6 |
| Environmental health engineering | 270 | 144 | 126 | 46.7 |
| Nuclear engineering | 119 | 98 | 21 | 17.6 |
| Structural engineering | 81 | 68 | 13 | 16.0 |
| Systems engineering | 117 | 86 | 31 | 26.5 |

TABLE 16. Doctorate recipients, by sex and subfield of study: 2013

| Subfield of study | Total ^a | Male | Female | % female |
|--|--------------------|-------|--------|----------|
| Other engineering, aggregated | 963 | 714 | 249 | 25.9 |
| Education | 4,944 | 1,575 | 3,369 | 68.1 |
| Education administration | 967 | 374 | 593 | 61.3 |
| Educational administration and supervision | 190 | 72 | 118 | 62.1 |
| Education and human resource studies/development | 93 | 31 | 62 | 66.7 |
| Educational leadership | 602 | 241 | 361 | 60.0 |
| Urban education and leadership | 82 | 30 | 52 | 63.4 |
| Education research | 2,704 | 826 | 1,878 | 69.5 |
| Counseling education/counseling and guidance | 256 | 70 | 186 | 72.7 |
| Curriculum and instruction | 587 | 168 | 419 | 71.4 |
| Educational assessment/testing/measurement | 62 | 22 | 40 | 64.5 |
| Educational policy analysis | 172 | 70 | 102 | 59.3 |
| Educational psychology (education) | 285 | 75 | 210 | 73.7 |
| Educational statistics/research methods | 84 | 29 | 55 | 65.5 |
| Educational/instructional technology, media design | 255 | 108 | 147 | 57.6 |
| Higher education/evaluation and research | 436 | 155 | 281 | 64.4 |
| International education | 65 | 24 | 41 | 63.1 |
| School psychology (education) | 132 | 18 | 114 | 86.4 |
| Social/philosophical foundations of education | 84 | 30 | 54 | 64.3 |
| Special education | 286 | 57 | 229 | 80.1 |
| Teacher education | 111 | 22 | 89 | 80.2 |
| Teaching fields | 895 | 277 | 618 | 69.1 |
| Health education | 52 | 14 | 38 | 73.1 |
| Literacy and reading education | 126 | 14 | 112 | 88.9 |
| Mathematics education | 139 | 50 | 89 | 64.0 |
| Music education | 92 | 41 | 51 | 55.4 |
| Physical education and coaching | 45 | 27 | 18 | 40.0 |
| Science education | 114 | 33 | 81 | 71.1 |
| Teaching fields, aggregated | 327 | 98 | 229 | 70.0 |
| Other education | 267 | 76 | 191 | 71.5 |
| Education, general | 130 | 38 | 92 | 70.8 |
| Education, other | 137 | 38 | 99 | 72.3 |
| Humanities | 5,662 | 2,760 | 2,901 | 51.2 |
| Foreign languages and literature | 701 | 271 | 430 | 61.3 |
| French, Italian | 184 | 58 | 126 | 68.5 |
| German | 75 | 31 | 44 | 58.7 |
| Latin American | 66 | 26 | 40 | 60.6 |
| Spanish | 215 | 79 | 136 | 63.3 |
| Other aggregated languages | 161 | 77 | 84 | 52.2 |
| History | 1,149 | 631 | 518 | 45.1 |
| American history (U.S. and Canada) | 443 | 252 | 191 | 43.1 |
| Asian history | 84 | 51 | 33 | 39.3 |
| European history | 187 | 107 | 80 | 42.8 |
| History, science and technology and society | 53 | 23 | 30 | 56.6 |
| Latin American history | 77 | 42 | 35 | 45.5 |
| Middle/Near East studies | 71 | 41 | 30 | 42.3 |
| History, general | 106 | 61 | 45 | 42.5 |
| History, aggregated | 128 | 54 | 74 | 57.8 |
| Letters | 1,604 | 665 | 939 | 58.5 |
| American literature (U.S. and Canada) | 396 | 183 | 213 | 53.8 |
| Classics | 101 | 54 | 47 | 46.5 |
| Comparative literature | 218 | 87 | 131 | 60.1 |

TABLE 16. Doctorate recipients, by sex and subfield of study: 2013

| Subfield of study | Total ^a | Male | Female | % female |
|--|--------------------|-------|--------|----------|
| English language | 93 | 44 | 49 | 52.7 |
| English literature (British and Commonwealth) | 398 | 144 | 254 | 63.8 |
| Rhetoric and composition | 218 | 77 | 141 | 64.7 |
| Speech and rhetorical studies | 33 | 19 | 14 | 42.4 |
| Letters, aggregated | 147 | 57 | 90 | 61.2 |
| Other humanities | 2,208 | 1,193 | 1,014 | 45.9 |
| American/U.S. studies | 123 | 61 | 62 | 50.4 |
| Archaeology | 72 | 26 | 46 | 63.9 |
| Art history/criticism/conservation | 264 | 59 | 205 | 77.7 |
| Drama/theater arts | 120 | 49 | 71 | 59.2 |
| Film/cinema/video studies | 67 | 39 | 28 | 41.8 |
| Music | 88 | 54 | 34 | 38.6 |
| Musicology/ethnomusicology | 128 | 63 | 65 | 50.8 |
| Music performance | 125 | 48 | 76 | 60.8 |
| Music theory and composition | 102 | 74 | 28 | 27.5 |
| Philosophy, ethics | 519 | 379 | 140 | 27.0 |
| Religion/religious studies, Jewish/Judaic studies | 334 | 209 | 125 | 37.4 |
| Other humanities, aggregated | 266 | 132 | 134 | 50.4 |
| Other ^b | 3,195 | 1,605 | 1,589 | 49.7 |
| Business management and administration | 1,545 | 906 | 638 | 41.3 |
| Accounting | 168 | 92 | 76 | 45.2 |
| Business administration and management | 261 | 156 | 105 | 40.2 |
| Finance | 260 | 181 | 79 | 30.4 |
| Human resources development | 45 | 11 | 34 | 75.6 |
| Management information systems/business statistics | 107 | 79 | 28 | 26.2 |
| Marketing management and research | 190 | 98 | 92 | 48.4 |
| Organizational behavior | 187 | 96 | 91 | 48.7 |
| Other aggregated business fields | 327 | 193 | 133 | 40.7 |
| Communication | 649 | 246 | 403 | 62.1 |
| Communication research | 157 | 47 | 110 | 70.1 |
| Mass communication/media studies | 238 | 108 | 130 | 54.6 |
| Communication, general | 107 | 36 | 71 | 66.4 |
| Communication, aggregated | 147 | 55 | 92 | 62.6 |
| Non-S&E fields not elsewhere classified | 1,001 | 453 | 548 | 54.7 |
| Architecture/environmental design | 101 | 52 | 49 | 48.5 |
| Family/consumer science/human science | 57 | 11 | 46 | 80.7 |
| Parks/sports/recreation/leisure/fitness | 76 | 46 | 30 | 39.5 |
| Public administration | 127 | 74 | 53 | 41.7 |
| Social work | 330 | 66 | 264 | 80.0 |
| Theology/religious education | 175 | 130 | 45 | 25.7 |
| Fields not elsewhere classified, aggregated | 135 | 74 | 61 | 45.2 |

S&E = science and engineering.

^a Includes 11 respondents who did not report sex.

^b Non-science and engineering fields not shown separately.

NOTE: See table A-5 in the technical notes for a listing of aggregated fields and their constituent fine fields.

SOURCE: NSF, NIH, USED, USDA, NEH, NASA, Survey of Earned Doctorates, 2013.