

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
All fields	52,250
Science and engineering	41,356
Agricultural sciences and natural resources	1,223
Agricultural, animal, plant, and veterinary sciences	807
Agronomy and crop science	69
Animal sciences	160
Food science and technology	175
Plant sciences	152
Soil sciences	79
Veterinary biomedical and clinical sciences	78
Agricultural, animal, plant, and veterinary sciences nec	94
Natural resources and conservation	416
Environmental science	117
Environmental/ natural resources management and policy	78
Forestry	74
Natural resources conservation and research	74
Natural resources and conservation nec	73
Biological and biomedical sciences	8,259
Biochemistry, biophysics, and molecular biology	1,348
Biochemistry	417
Biochemistry and molecular biology	263
Biophysics	206
Molecular biology	260
Biochemistry, biophysics, and molecular biology nec	202
Bioinformatics, biostatistics, and computational biology	563
Bioinformatics	136
Biostatistics	224
Computational biology	106
Bioinformatics, biostatistics, and computational biology nec	97
Cell/ cellular biology and anatomy	657
Cell/ cellular and molecular biology	482
Developmental biology and embryology	103
Cell/ cellular biology and anatomy nec	72
Ecology, evolutionary biology, and epidemiology	984
Ecology	227
Ecology and evolutionary biology	243
Epidemiology	298
Epidemiology and biostatistics	54
Evolutionary biology	68
Ecology, evolutionary biology, and epidemiology nec	94
Genetics and genomics	398
Genetics, general	121
Genome sciences and genomics	72
Human/ medical genetics	62
Molecular genetics	72
Genetics nec	71
Microbiology and immunology	974
Immunology	303
Microbiology and immunology	217
Microbiology, general	257

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Virology	107
Microbiology and immunology nec	90
Neurobiology and neurosciences	1,014
Cognitive neuroscience	102
Neurobiology and anatomy	94
Neuroscience	686
Neurobiology and neurosciences nec	132
Pharmacology and toxicology	311
Pharmacology	131
Toxicology	106
Pharmacology and toxicology nec	74
Physiology, oncology and cancer biology	713
Biomechanics	77
Exercise physiology and kinesiology	76
Oncology and cancer biology	315
Physiology, general	76
Physiology, oncology and cancer biology nec	169
Biological and biomedical sciences, other	1,297
Biology/ biological sciences, general	331
Biomedical sciences, general	331
Botany and plant biology	62
Entomology	114
Plant physiology and biology nec	60
Plant pathology and phytopathology	119
Zoology and animal biology	96
Biological and biomedical sciences nec	184
Computer and information sciences	2,195
Computer science	1,545
Computer science	1,545
Computer and information sciences, other	650
Artificial intelligence	167
Computer and information sciences, general	110
Computer systems networking and telecommunications	113
Informatics and information technology	88
Information science/ studies	103
Computer and information sciences nec	69
Engineering	9,563
Biological, biomedical, and biosystems engineering	1,071
Bioengineering and biomedical engineering	978
Biological/ biosystems engineering and biomedical technology	93
Chemical and petroleum engineering	1,292
Chemical and biomolecular engineering	189
Chemical engineering	803
Petroleum engineering	132
Chemical and petroleum engineering nec	168
Civil, environmental, and transportation engineering	1,020
Civil engineering	571
Environmental/ environmental health engineering	93
Geotechnical and geoenvironmental engineering	76
Structural engineering	135

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Transportation and highway engineering	76
Civil, environmental, and transportation engineering nec	69
Electrical and computer engineering	2,047
Computer engineering	264
Electrical and computer engineering	1,205
Electrical and electronics engineering	512
Electrical and computer engineering nec	66
Engineering technologies	452
Electrical and electronic engineering technologies	80
Electromechanical technologies	59
Environmental control technologies	148
Engineering technologies nec	165
Industrial engineering and operations research	604
Industrial engineering	325
Operations research	160
Systems and manufacturing engineering	119
Materials and mining engineering	672
Materials engineering	194
Materials science and engineering	429
Materials and mining engineering nec	49
Mechanical engineering	1,413
Mechanical engineering, general	1,413
Engineering, other	992
Aerospace, aeronautical, astronautical, and space engineering	350
Engineering mechanics, physics, and science	111
Nanotechnology	61
Nuclear engineering	156
Engineering nec	314
Geosciences, atmospheric, and ocean sciences	1,044
Geological and earth sciences	613
Geochemistry	60
Geology	109
Geology/ earth science, general	104
Geophysics and seismology	101
Hydrology and water resources science	81
Geological and earth sciences nec	158
Ocean/ marine sciences and atmospheric science	431
Atmospheric sciences and meteorology, general	94
Climatology, atmospheric chemistry and physics	60
Marine biology and biological oceanography	89
Marine sciences	57
Oceanography, chemical and physical	84
Atmospheric sciences and meteorology nec	47
Health sciences	2,582
Nursing and nursing science	603
Nursing education	89
Nursing science	357
Nursing specialties and practice	157
Pharmacy and pharmaceutical sciences	408
Medicinal and pharmaceutical chemistry	64

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Pharmaceutical sciences	243
Pharmacy, pharmaceutical sciences, and administration nec	101
Public health	696
Environmental health	66
Health services research	86
Health/ medical physics	70
Public health education and promotion	95
Public health, general	179
Public health nec	200
Health sciences, other	875
Communication disorders sciences	127
Exercise science and kinesiology	92
Health sciences, general	66
Marriage and family therapy/ counseling	58
Medical clinical science	60
Medical, biomedical, and health informatics	61
Mental health, counseling, and therapy services and sciences	91
Rehabilitation and therapeutic sciences	121
Health sciences nec	199
Mathematics and statistics	1,915
Applied mathematics	475
Applied mathematics, general	265
Computational and applied mathematics	141
Applied mathematics nec	69
Mathematics	827
Algebra and number theory	69
Mathematics, general	640
Mathematics nec	118
Statistics	613
Applied statistics, general	56
Mathematics and statistics	90
Statistics	402
Statistics nec	65
Multidisciplinary/ interdisciplinary sciences	1,299
Interdisciplinary computer sciences	448
Computer science and engineering	119
Electrical engineering and computer science	224
Interdisciplinary computer sciences nec	105
Multidisciplinary/ interdisciplinary sciences, other	851
Behavioral and cognitive sciences	79
Computational science and engineering	104
Data science and data analytics	106
History/ philosophy of science, technology and society	68
Nanoscience/ nanoscale science	57
Nutrition sciences	138
Multidisciplinary/ interdisciplinary sciences nec	299
Physical sciences	4,811
Astronomy and astrophysics	263
Astronomy	71
Astrophysics	113

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Astronomy and astrophysics nec	79
Chemistry	2,369
Analytical chemistry	321
Chemical biology	151
Chemistry, general	495
Inorganic chemistry	283
Organic chemistry	454
Physical chemistry	293
Polymer chemistry	121
Theoretical chemistry	108
Chemistry nec	143
Materials sciences	429
Materials science	276
Materials chemistry and materials science nec	153
Physics	1,750
Applied physics	133
Atomic/ molecular physics	89
Condensed matter and materials physics	358
Elementary particle physics	166
Nuclear physics	79
Optics/ optical sciences	120
Physics and astronomy	193
Physics, general	339
Plasma and high-temperature physics	57
Theoretical and mathematical physics	99
Physics and physical sciences nec	117
Psychology	3,716
Clinical psychology	1,256
Clinical child psychology	52
Clinical psychology	1,204
Counseling and applied psychology	1,338
Applied behavior analysis	59
Counseling psychology	365
Educational psychology	229
Industrial and organizational psychology	181
School psychology	259
Counseling and applied psychology nec	245
Research and experimental psychology	651
Behavioral neuroscience	87
Cognitive psychology and psycholinguistics	106
Developmental and child psychology	78
Experimental psychology	98
Social psychology	143
Research and experimental psychology nec	139
Psychology, other	471
Human development	142
Psychology, general	261
Psychology nec	68
Social sciences	4,749
Anthropology	388

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Anthropology, general	80
Cultural anthropology	186
Physical and biological anthropology	71
Anthropology nec	51
Area, ethnic, cultural, gender, and group studies	383
Area studies	224
Ethnic studies	81
Area, ethnic, cultural, gender, and group studies nec	78
Economics	1,317
Agricultural economics	76
Applied economics	134
Development economics and international development	54
Econometrics and quantitative economics	145
Economics, general	802
Environmental/ natural resource economics	54
Economics nec	52
Political science and government	581
Political science and government, general	488
Political science and government nec	93
Public policy analysis	399
Education policy analysis	131
Health policy analysis	52
Public policy analysis, general	158
Public policy nec	58
Sociology, demography, and population studies	578
Sociology, general	501
Sociology, demography, and population studies nec	77
Social sciences, other	1,103
Applied linguistics	74
Archeology	83
Criminal justice and corrections	126
Criminology	97
Geography and cartography	223
International relations and national security studies	105
Linguistics	203
Social sciences nec	192
Non-science and engineering	10,894
Business	1,340
Business administration and management	456
Business management and administration	235
Organizational leadership	117
Business administration and management nec	104
Business, other	884
Accounting and accounting-related	135
Finance and financial management	192
Management information systems	88
Management sciences	73
Marketing	119
Organizational behavior studies	103
Business nec	174

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Education	3,711
Education leadership and administration	1,082
Educational leadership and administration, general	500
Higher education and community college administration	391
Education leadership and administration nec	191
Education research	1,204
Curriculum and instruction	425
Educational assessment, evaluation, and research methods	222
Educational/ instructional technology and media design	155
Higher education evaluation and research	61
Student counseling and personnel services	267
Education research nec	74
Teacher education	1,010
Adult, continuing, and workforce education and development	66
Bilingual, multilingual, and multicultural education	77
Mathematics teacher education	75
Music teacher education	73
Special education and teaching	235
STEM educational methods	70
Teacher education, science and engineering	68
Teacher education, specific levels and methods	154
Teacher education, specific subject areas	192
Education, other	415
Education, general	268
Education nec	147
Humanities	3,076
English language and literature, letters	933
American literature (United States)	113
Creative writing	68
English language and literature, general	362
English literature (British and commonwealth)	131
Rhetoric and composition, and writing studies	190
English language and literature nec	69
Foreign languages, literatures, and linguistics	505
Comparative literature	118
Hispanic/ Latin American languages, literatures, and linguistics	70
Romance languages, literatures, and linguistics	72
Spanish language and literature	79
Foreign languages, literatures, and linguistics nec	166
History	672
American history (United States)	209
European history	88
History, general	169
History, regional focus	133
History nec	73
Philosophy and religious studies	592
Philosophy	399
Religion/ religious studies	126
Philosophy and religious studies nec	67
Humanities, other	374

Table 3-1**Research doctorate recipients, by detailed field of doctorate: 2021**

(Number)

Field of doctorate	2021
Bible/ biblical studies	71
Humanities and humanistic studies	62
Theological and ministerial studies	241
Visual and performing arts	771
Performing arts	491
Dance, drama, theatre arts and stagecraft	82
Music performance	128
Music theory and composition	86
Music nec	79
Musicology and ethnomusicology	116
Visual arts, media studies/ design	280
Art history, criticism and conservation	167
Film, cinema, and media studies	62
Visual arts, media studies/ design, and arts management nec	51
Other non-science and engineering	1,996
Communications and journalism	520
Applied communication, advertising, and public relations	94
Communication and media studies	160
Communication, general	85
Mass communication/ media studies	95
Communications and journalism nec	86
Multidisciplinary/ interdisciplinary studies	331
Classical and ancient studies	91
Multidisciplinary/ interdisciplinary studies nec	240
Public administration and social services	490
Public administration	202
Social work and human services	288
Non-science and engineering, other	655
Architecture and architectural studies	134
City/ urban, community, and regional planning	101
Family, consumer sciences and human sciences	140
Homeland security and protective services	50
Law, legal studies and research	80
Parks, recreation, leisure, fitness, and sport studies and management	87
Other non-science and engineering nec	63

nec = not elsewhere classified; STEM = science, technology, engineering, and mathematics.

Note(s):

Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

Source(s):

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