

Table 3-2. Research doctorate recipients, by detailed field of doctorate and sex: 2025

(Number)

Field of doctorate	Total ^a	Male	Female	% female
All fields	59,015	30,214	28,801	48.8
Science and engineering	47,272	25,550	21,722	46.0
Agricultural sciences and natural resources	1,325	607	718	54.2
Agricultural, animal, plant, and veterinary sciences	875	419	456	52.1
Agronomy and crop science	62	36	26	41.9
Animal sciences	189	82	107	56.6
Food science and technology	141	63	78	55.3
Plant sciences	176	101	75	42.6
Soil sciences	108	55	53	49.1
Veterinary biomedical and clinical sciences	94	33	61	64.9
Agricultural, animal, plant, and veterinary sciences nec	105	49	56	53.3
Natural resources and conservation	450	188	262	58.2
Environmental science	137	47	90	65.7
Environmental/ natural resources management and policy	58	30	28	48.3
Forestry	86	39	47	54.7
Natural resources conservation and research	95	32	63	66.3
Natural resources and conservation nec	74	40	34	45.9
Biological and biomedical sciences	9,950	4,316	5,634	56.6
Biochemistry, biophysics, and molecular biology	1,521	790	731	48.1
Biochemistry	425	210	215	50.6
Biochemistry and biophysics	65	38	27	41.5
Biochemistry and molecular biology	307	144	163	53.1
Biophysics	233	157	76	32.6
Molecular biology	300	144	156	52.0
Biochemistry, biophysics, and molecular biology nec	191	97	94	49.2
Bioinformatics, biostatistics, and computational biology	742	404	338	45.6
Bioinformatics	203	106	97	47.8
Biostatistics	278	143	135	48.6
Computational biology	166	104	62	37.3
Bioinformatics, biostatistics, and computational biology nec	95	51	44	46.3
Biological and biomedical sciences, general	968	386	582	60.1
Biology/ biological sciences, general	533	217	316	59.3
Biomedical sciences, general	435	169	266	61.1
Cell/ cellular biology and anatomy	784	298	486	62.0
Cell/ cellular and molecular biology	631	236	395	62.6
Developmental biology and embryology	93	40	53	57.0
Cell/ cellular biology and anatomy nec	60	22	38	63.3
Ecology, evolutionary biology, and epidemiology	1,078	392	686	63.6
Ecology	265	103	162	61.1
Ecology and evolutionary biology	242	96	146	60.3
Epidemiology	346	93	253	73.1
Epidemiology and biostatistics	39	16	23	59.0
Evolutionary biology	101	50	51	50.5
Ecology, evolutionary biology, and epidemiology nec	85	34	51	60.0
Genetics and genomics	488	192	296	60.7
Genetics, general	127	47	80	63.0
Genome sciences and genomics	110	48	62	56.4
Human/ medical genetics	86	20	66	76.7
Molecular genetics	69	29	40	58.0
Genetics and genomics nec	96	48	48	50.0
Microbiology and immunology	1,136	467	669	58.9
Immunology	398	186	212	53.3
Microbiology and immunology	276	104	172	62.3

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Microbiology, general	267	101	166	62.2
Virology	95	37	58	61.1
Microbiology and immunology nec	100	39	61	61.0
Neurobiology and neurosciences	1,343	560	783	58.3
Cognitive neuroscience	111	45	66	59.5
Computational neuroscience	76	52	24	31.6
Neurobiology	110	41	69	62.7
Neuroscience	994	408	586	59.0
Neurobiology and neurosciences nec	52	14	38	73.1
Pharmacology and toxicology	393	145	248	63.1
Pharmacology	193	77	116	60.1
Toxicology	115	32	83	72.2
Pharmacology and toxicology nec	85	36	49	57.6
Physiology, oncology, and cancer biology	845	401	444	52.5
Biomechanics	71	42	29	40.8
Exercise physiology and kinesiology	119	67	52	43.7
Oncology and cancer biology	362	162	200	55.2
Physiology, general	80	43	37	46.3
Physiology, oncology, and cancer biology nec	213	87	126	59.2
Biological and biomedical sciences, other	652	281	371	56.9
Botany and plant biology	91	40	51	56.0
Entomology	118	53	65	55.1
Plant pathology and phytopathology	100	51	49	49.0
Plant physiology and biology nec	71	28	43	60.6
Zoology and animal biology	103	38	65	63.1
Biological and biomedical sciences nec	169	71	98	58.0
Computer and information sciences	3,002	2,238	764	25.4
Computer science	2,027	1,551	476	23.5
Computer science	2,027	1,551	476	23.5
Computer and information sciences, other	975	687	288	29.5
Artificial intelligence	368	285	83	22.6
Computer and information sciences, general	156	111	45	28.8
Computer systems networking and telecommunications	79	58	21	26.6
Cybersecurity	66	54	12	18.2
Informatics and information technology	115	73	42	36.5
Information sciences/ studies	131	62	69	52.7
Computer and information sciences nec	60	44	16	26.7
Engineering	10,876	7,728	3,148	28.9
Aerospace, aeronautical, astronautical, and space engineering	628	516	112	17.8
Aerospace, aeronautical, astronautical, and space engineering, general	230	191	39	17.0
Mechanical and aerospace engineering	224	184	40	17.9
Aerospace, aeronautical, astronautical, and space engineering nec	174	141	33	19.0
Biological, biomedical, and biosystems engineering	1,390	770	620	44.6
Bioengineering and biomedical engineering	1,301	713	588	45.2
Biological/ biosystems engineering and biomedical technology	89	57	32	36.0
Chemical and petroleum engineering	1,285	847	438	34.1
Chemical and biomolecular engineering	247	160	87	35.2
Chemical engineering	870	561	309	35.5
Petroleum engineering	108	86	22	20.4
Chemical and petroleum engineering nec	60	40	20	33.3
Civil, environmental, and transportation engineering	1,276	818	458	35.9
Civil engineering	323	226	97	30.0
Civil and environmental engineering	514	307	207	40.3

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Environmental/ environmental health engineering	87	39	48	55.2
Geotechnical and geoenvironmental engineering	67	50	17	25.4
Structural engineering	103	81	22	21.4
Transportation and highway engineering	81	54	27	33.3
Civil, environmental, and transportation engineering nec	101	61	40	39.6
Electrical and computer engineering	2,111	1,679	432	20.5
Computer engineering	294	230	64	21.8
Electrical and computer engineering	1,384	1,099	285	20.6
Electrical and electronics engineering	373	304	69	18.5
Electrical and computer engineering nec	60	46	14	23.3
Engineering technologies	374	296	78	20.9
Electrical and electronic engineering technologies	63	55	8	12.7
Electromechanical technologies	106	92	14	13.2
Environmental control technologies	65	45	20	30.8
Engineering technologies nec	140	104	36	25.7
Industrial engineering and operations research	666	438	228	34.2
Industrial engineering	190	112	78	41.1
Industrial and systems engineering	147	92	55	37.4
Operations research	182	130	52	28.6
Systems and manufacturing engineering	147	104	43	29.3
Materials and mining engineering	867	604	263	30.3
Materials engineering	73	50	23	31.5
Materials science and engineering	743	516	227	30.6
Materials and mining engineering nec	51	38	13	25.5
Mechanical engineering	1,564	1,230	334	21.4
Mechanical engineering, general	1,431	1,129	302	21.1
Mechanical engineering nec	133	101	32	24.1
Engineering, other	715	530	185	25.9
Agricultural and natural resources engineering	85	71	14	16.5
Engineering mechanics, physics, and science	129	113	16	12.4
Nanotechnology, nanoscience, and nanoengineering	117	94	23	19.7
Nuclear engineering	137	107	30	21.9
Engineering nec	247	145	102	41.3
Geosciences, atmospheric, and ocean sciences	1,192	620	572	48.0
Geological and earth sciences	641	348	293	45.7
Geochemistry	55	30	25	45.5
Geology	80	44	36	45.0
Geology/ earth science, general	135	78	57	42.2
Geophysics and seismology	85	49	36	42.4
Hydrology and water resources science	69	43	26	37.7
Geological and earth sciences nec	217	104	113	52.1
Ocean, marine, and atmospheric sciences	551	272	279	50.6
Atmospheric sciences and meteorology, general	110	64	46	41.8
Atmospheric sciences and meteorology nec	87	50	37	42.5
Climatology, atmospheric chemistry/ physics	72	42	30	41.7
Marine biology and biological oceanography	108	39	69	63.9
Marine sciences	81	29	52	64.2
Oceanography, chemical/ physical	93	48	45	48.4
Health sciences	2,911	863	2,048	70.4
Nursing and nursing science	659	70	589	89.4
Nursing education	97	9	88	90.7
Nursing science	396	43	353	89.1
Nursing specialties and practice	166	18	148	89.2

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Pharmacy and pharmaceutical sciences	418	202	216	51.7
Medicinal and pharmaceutical chemistry	69	34	35	50.7
Pharmaceutical sciences	258	124	134	51.9
Pharmacy, pharmaceutical sciences, and administration nec	91	44	47	51.6
Public health	796	230	566	71.1
Environmental health	77	21	56	72.7
Health services research	95	23	72	75.8
Health/ medical physics	64	43	21	32.8
Public health education and promotion	105	20	85	81.0
Public health, general	220	53	167	75.9
Public health nec	235	70	165	70.2
Health sciences, other	1,038	361	677	65.2
Communication disorders sciences	112	24	88	78.6
Exercise science and kinesiology	105	47	58	55.2
Health sciences, general	76	33	43	56.6
Marriage and family therapy/ counseling	83	16	67	80.7
Medical clinical sciences	70	26	44	62.9
Medical, biomedical, and health informatics	96	60	36	37.5
Mental health, counseling, and therapy services and sciences	104	23	81	77.9
Rehabilitation and therapeutic sciences	172	57	115	66.9
Health sciences nec	220	75	145	65.9
Mathematics and statistics	2,069	1,434	635	30.7
Applied mathematics	444	280	164	36.9
Applied mathematics, general	251	155	96	38.2
Computational and applied mathematics	141	96	45	31.9
Applied mathematics nec	52	29	23	44.2
Mathematics	967	711	256	26.5
Algebra and number theory	70	57	13	18.6
Mathematics, general	771	568	203	26.3
Mathematics nec	126	86	40	31.7
Statistics	658	443	215	32.7
Applied statistics, general	51	31	20	39.2
Mathematics and statistics	91	64	27	29.7
Statistics	471	324	147	31.2
Statistics nec	45	24	21	46.7
Multidisciplinary/ interdisciplinary sciences	1,781	1,064	717	40.3
Interdisciplinary computer sciences	673	488	185	27.5
Computer science and engineering	253	187	66	26.1
Electrical engineering and computer science	203	165	38	18.7
Human-computer interaction	105	49	56	53.3
Interdisciplinary computer sciences nec	112	87	25	22.3
Multidisciplinary/ interdisciplinary sciences, other	1,108	576	532	48.0
Behavioral and cognitive sciences	79	30	49	62.0
Computational science and engineering	94	69	25	26.6
Data mining and machine learning	231	180	51	22.1
Data science and data analytics	116	67	49	42.2
History/ philosophy of science, technology, and society	72	27	45	62.5
Nutrition sciences	159	37	122	76.7
Polymer science and engineering	49	28	21	42.9
Multidisciplinary/ interdisciplinary sciences nec	308	138	170	55.2
Physical sciences	5,332	3,477	1,855	34.8
Astronomy and astrophysics	337	216	121	35.9
Astronomy	87	57	30	34.5

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Astrophysics	145	97	48	33.1
Astronomy and astrophysics nec	105	62	43	41.0
Chemistry	2,627	1,468	1,159	44.1
Analytical chemistry	322	144	178	55.3
Chemical biology	197	94	103	52.3
Chemistry, general	615	343	272	44.2
Inorganic chemistry	258	135	123	47.7
Organic chemistry	536	331	205	38.2
Physical chemistry	262	160	102	38.9
Polymer chemistry	86	44	42	48.8
Theoretical and computational chemistry	194	145	49	25.3
Chemistry nec	157	72	85	54.1
Materials sciences	326	201	125	38.3
Materials science	156	105	51	32.7
Materials chemistry and materials sciences nec	170	96	74	43.5
Physics	2,042	1,592	450	22.0
Applied physics	160	123	37	23.1
Atomic/ molecular physics	94	77	17	18.1
Condensed matter and materials physics	388	323	65	16.8
Elementary particle physics	143	109	34	23.8
Nuclear physics	107	86	21	19.6
Optics/ optical sciences	132	86	46	34.8
Physics and astronomy	263	195	68	25.9
Physics, general	464	363	101	21.8
Plasma and high-temperature physics	60	49	11	18.3
Theoretical and mathematical physics	132	112	20	15.2
Physics and physical sciences nec	99	69	30	30.3
Psychology	3,941	916	3,025	76.8
Clinical psychology	1,179	239	940	79.7
Clinical child psychology	61	10	51	83.6
Clinical psychology	1,118	229	889	79.5
Counseling and applied psychology	1,315	305	1,010	76.8
Applied behavior analysis	56	10	46	82.1
Counseling psychology	340	84	256	75.3
Educational psychology	194	47	147	75.8
Industrial and organizational psychology	173	67	106	61.3
School psychology	246	34	212	86.2
Counseling and applied psychology nec	306	63	243	79.4
Research and experimental psychology	874	254	620	70.9
Behavioral neuroscience	111	29	82	73.9
Cognitive psychology and psycholinguistics	104	42	62	59.6
Developmental and child psychology	110	12	98	89.1
Experimental psychology	128	37	91	71.1
Social psychology	226	70	156	69.0
Research and experimental psychology nec	195	64	131	67.2
Psychology, other	573	118	455	79.4
Human development	157	22	135	86.0
Psychology, general	347	78	269	77.5
Psychology nec	69	18	51	73.9
Social sciences	4,893	2,287	2,606	53.3
Anthropology	433	136	297	68.6
Anthropology, general	131	51	80	61.1
Cultural anthropology	176	61	115	65.3

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Physical and biological anthropology	74	13	61	82.4
Anthropology nec	52	11	41	78.8
Area, ethnic, cultural, gender, and group studies	419	150	269	64.2
American studies	55	19	36	65.5
Area studies	192	89	103	53.6
Ethnic studies	73	22	51	69.9
Area, ethnic, cultural, gender, and group studies nec	99	20	79	79.8
Economics	1,390	879	511	36.8
Agricultural economics	61	34	27	44.3
Applied economics	130	66	64	49.2
Econometrics and quantitative economics	216	144	72	33.3
Economics, general	764	508	256	33.5
Environmental/ natural resource economics	72	36	36	50.0
International and development economics	61	40	21	34.4
Economics nec	86	51	35	40.7
Political science and government	634	358	276	43.5
Political science and government, general	530	300	230	43.4
Political science and government nec	104	58	46	44.2
Public policy analysis	383	144	239	62.4
Education policy analysis	89	24	65	73.0
Public policy analysis, general	102	52	50	49.0
Public policy nec	192	68	124	64.6
Sociology, demography, and population studies	588	202	386	65.6
Sociology, general	512	179	333	65.0
Sociology, demography, and population studies nec	76	23	53	69.7
Social sciences, other	1,046	418	628	60.0
Applied linguistics	75	32	43	57.3
Archeology	79	26	53	67.1
Criminology	120	41	79	65.8
Geography and cartography	189	87	102	54.0
International relations and national security studies	119	68	51	42.9
Linguistics	189	82	107	56.6
Social sciences nec	275	82	193	70.2
Non-science and engineering	11,743	4,664	7,079	60.3
Business	1,350	752	598	44.3
Business administration and management	461	251	210	45.6
Business management and administration	263	142	121	46.0
Organizational leadership	89	39	50	56.2
Business administration and management nec	109	70	39	35.8
Business, other	889	501	388	43.6
Accounting and accounting-related	148	79	69	46.6
Finance and financial management	174	125	49	28.2
Management information systems	83	47	36	43.4
Management sciences	78	41	37	47.4
Marketing	126	69	57	45.2
Organizational behavior studies	76	31	45	59.2
Business nec	204	109	95	46.6
Education	4,048	1,055	2,993	73.9
Education leadership and administration	1,245	358	887	71.2
Educational leadership and administration, general	380	112	268	70.5
Educational leadership and policy	236	61	175	74.2
Higher education and community college administration	449	141	308	68.6
Education leadership and administration nec	180	44	136	75.6

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(Number)

Field of doctorate	Total ^a	Male	Female	% female
Education research	1,194	314	880	73.7
Curriculum and instruction	396	106	290	73.2
Educational assessment, evaluation, and research methods	213	69	144	67.6
Educational/ instructional technology and media design	191	63	128	67.0
Higher education evaluation and research	52	9	43	82.7
Student counseling and personnel services	270	51	219	81.1
Education research nec	72	16	56	77.8
Teacher education and teaching fields	1,124	268	856	76.2
Adult, continuing, and workforce education and development	56	23	33	58.9
Bilingual, multilingual, and multicultural education	62	16	46	74.2
Early childhood education and teaching	64	6	58	90.6
Language and literacy education	95	18	77	81.1
Mathematics teacher education	62	22	40	64.5
Music teacher education	67	34	33	49.3
Special education and teaching	259	36	223	86.1
STEM educational methods	97	31	66	68.0
Teacher education, science and engineering	72	17	55	76.4
Teacher education, specific levels and methods	154	27	127	82.5
Teacher education, specific subject areas	136	38	98	72.1
Education, other	485	115	370	76.3
Education, general	342	85	257	75.1
Education nec	143	30	113	79.0
Humanities	3,355	1,661	1,694	50.5
English language and literature, letters	984	341	643	65.3
American literature (United States)	114	46	68	59.6
Creative writing	89	32	57	64.0
English language and literature, general	417	148	269	64.5
English literature (British and Commonwealth)	100	31	69	69.0
Rhetoric, composition, and writing studies	179	59	120	67.0
English language and literature nec	85	25	60	70.6
Foreign languages, literatures, and linguistics	542	228	314	57.9
Comparative literature	109	46	63	57.8
Hispanic/ Latin American languages, literatures, and linguistics	94	35	59	62.8
Romance languages, literatures, and linguistics	97	31	66	68.0
Spanish language and literature	81	36	45	55.6
Foreign languages, literatures, and linguistics nec	161	80	81	50.3
History	779	426	353	45.3
American history (United States)	244	127	117	48.0
European history	101	61	40	39.6
History, general	239	133	106	44.4
History, regional focus	130	65	65	50.0
History nec	65	40	25	38.5
Philosophy and religious studies	628	387	241	38.4
Philosophy	413	263	150	36.3
Religion/ religious studies	128	70	58	45.3
Philosophy and religious studies nec	87	54	33	37.9
Humanities, other	422	279	143	33.9
Bible/ biblical studies	85	69	16	18.8
Humanities and humanistic studies	113	44	69	61.1
Theological and ministerial studies	224	166	58	25.9
Visual and performing arts	793	344	449	56.6
Performing arts	494	240	254	51.4
Dance, drama, theatre arts, and stagecraft	73	19	54	74.0

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Field of doctorate	Total ^a	Male	Female	% female
Music performance	135	70	65	48.1
Music theory and composition	75	50	25	33.3
Musicology and ethnomusicology	126	59	67	53.2
Music nec	85	42	43	50.6
Visual arts, media studies, and design	299	104	195	65.2
Art history, criticism, and conservation	187	51	136	72.7
Film, cinema, and media studies	55	29	26	47.3
Visual arts, media studies, and design nec	57	24	33	57.9
Other non-science and engineering	2,197	852	1,345	61.2
Communication and journalism	584	201	383	65.6
Applied communication, advertising, and public relations	82	20	62	75.6
Communication and media studies	135	53	82	60.7
Communication, general	187	61	126	67.4
Mass communication/ media studies	81	25	56	69.1
Communication and journalism nec	99	42	57	57.6
Multidisciplinary/ interdisciplinary studies	349	144	205	58.7
Classical and ancient studies	111	52	59	53.2
Interdisciplinary leadership/ leadership studies	113	45	68	60.2
Multidisciplinary/ interdisciplinary studies nec	125	47	78	62.4
Public administration and social services	532	167	365	68.6
Public administration	102	53	49	48.0
Public administration and policy	96	45	51	53.1
Social work and human services	334	69	265	79.3
Non-science and engineering, other	732	340	392	53.6
Architecture and architectural studies	127	66	61	48.0
City/ urban, community, and regional planning	101	45	56	55.4
Family, consumer, and human sciences	138	36	102	73.9
Homeland security and protective services	139	77	62	44.6
Law/ legal studies and research	73	35	38	52.1
Parks, recreation, leisure, fitness, and sport studies and management	112	59	53	47.3
Other non-science and engineering nec	42	22	20	47.6

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

^a Total includes doctorate recipients who did not report sex.**Note(s):**

Due to rounding, percentages may not sum to 100. The survey data collection for the field of study changed in 2021, which may affect the data comparisons across years. This table uses the new field taxonomy based on a modified version of the 2020 Classification of Instructional Programs (CIP) codes and does not match data that uses the trend field taxonomy. For more information about the field taxonomy changes, see the "Technical Notes."

Source(s):

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