

Table 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
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All fields	57,596	19,633	35,311	3,354	98	3,586	2,647	23,320	1,210	425	671
Science and engineering	45,924	17,119	26,801	2,529	58	3,021	1,608	17,801	973	323	488
Agricultural sciences and natural resources	1,305	496	770	72	4	48	37	563	17	10	19
Agricultural, animal, plant, and veterinary sciences	857	380	458	38	2	33	25	334	11	5	10
Agronomy and crop science	68	34	32	1	0	1	2	26	1	0	1
Animal sciences	174	64	108	9	0	4	0	91	2	1	1
Food science and technology	156	82	70	4	1	18	7	34	2	2	2
Plant sciences	162	82	77	8	0	1	3	59	3	1	2
Soil sciences	100	36	62	6	1	2	4	45	1	1	2
Veterinary biomedical and clinical sciences	77	34	39	3	0	4	4	27	0	0	1
Agricultural, animal, plant, and veterinary sciences nec	120	48	70	7	0	3	5	52	2	0	1
Natural resources and conservation	448	116	312	34	2	15	12	229	6	5	9
Environmental science	147	46	95	14	0	8	6	62	1	0	4
Environmental/natural resources management and policy	71	24	46	6	0	1	2	34	1	0	2
Forestry	69	23	44	5	1	1	2	33	1	0	1
Natural resources conservation and research	72	13	50	4	0	4	0	33	2	5	2
Natural resources and conservation nec	89	10	77	5	1	1	2	67	1	0	0
Biological and biomedical sciences	9,386	2,344	6,745	728	9	831	321	4,442	274	64	76
Biochemistry, biophysics, and molecular biology	1,555	490	1,022	114	2	145	39	671	30	12	9
Biochemistry	465	135	310	34	0	38	15	210	6	3	4
Biochemistry and molecular biology	326	95	227	28	1	30	12	148	3	3	2
Biophysics	251	109	135	7	0	25	4	92	4	2	1
Molecular biology	274	65	201	22	1	33	5	128	9	2	1
Biochemistry, biophysics, and molecular biology nec	239	86	149	23	0	19	3	93	8	2	1
Bioinformatics, biostatistics, and computational biology	688	303	364	21	0	91	13	216	15	4	4
Bioinformatics	169	73	90	6	0	26	2	54	1	1	0
Biostatistics	260	127	120	5	0	36	3	70	3	1	2
Computational biology	154	61	92	5	0	17	2	59	7	0	2

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Bioinformatics, biostatistics, and computational biology nec	105	42	62	5	0	12	6	33	4	2	0
Cell/ cellular biology and anatomy	689	158	506	63	1	62	22	332	22	1	3
Cell/ cellular and molecular biology	526	128	384	47	0	45	17	255	16	1	3
Developmental biology and embryology	115	23	89	12	1	13	4	56	3	0	0
Cell/ cellular biology and anatomy nec	48	7	33	4	0	4	1	21	3	0	0
Ecology, evolutionary biology, and epidemiology	1,120	208	890	82	2	63	58	635	39	6	5
Ecology	238	26	210	16	1	2	1	179	8	2	1
Ecology and evolutionary biology	270	44	223	25	0	9	8	167	11	2	1
Epidemiology	386	86	288	26	1	37	41	165	14	2	2
Epidemiology and biostatistics	45	12	32	4	0	6	1	19	2	0	0
Evolutionary biology	83	17	65	8	0	5	5	44	3	0	0
Ecology, evolutionary biology, and epidemiology nec	98	23	72	3	0	4	2	61	1	0	1
Genetics and genomics	436	92	335	37	0	34	12	237	6	6	3
Genetics, general	122	15	101	10	0	6	3	78	2	2	0
Genome sciences and genomics	97	28	68	8	0	12	1	45	0	1	1
Human/ medical genetics	81	15	65	4	0	9	5	42	2	1	2
Molecular genetics	66	17	48	8	0	4	0	35	1	0	0
Genetics and genomics nec	70	17	53	7	0	3	3	37	1	2	0
Microbiology and immunology	1,089	178	887	100	0	112	41	585	34	5	10
Immunology	343	56	280	31	0	53	17	163	10	4	2
Microbiology and immunology	266	41	222	35	0	21	8	147	10	0	1
Microbiology, general	270	38	222	18	0	23	11	159	6	0	5
Virology	123	21	101	8	0	9	2	77	4	0	1
Microbiology and immunology nec	87	22	62	8	0	6	3	39	4	1	1
Neurobiology and neurosciences	1,177	214	924	116	1	129	36	586	40	6	10
Cognitive neuroscience	131	23	103	7	0	11	7	72	5	0	1
Neurobiology	79	12	67	12	0	9	3	34	7	1	1
Neuroscience	824	138	657	80	1	96	19	428	23	5	5

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Neurobiology and neurosciences nec	143	41	97	17	0	13	7	52	5	0	3
Pharmacology and toxicology	386	86	285	31	0	33	30	173	14	3	1
Pharmacology	164	41	119	14	0	16	12	71	3	2	1
Toxicology	125	23	96	13	0	5	11	58	8	1	0
Pharmacology and toxicology nec	97	22	70	4	0	12	7	44	3	0	0
Physiology, oncology, and cancer biology	768	204	545	65	2	65	26	355	25	4	3
Biomechanics	69	27	42	7	0	3	0	30	1	1	0
Exercise physiology and kinesiology	96	19	77	4	1	3	2	60	5	1	1
Oncology and cancer biology	320	91	221	25	1	37	12	132	10	2	2
Physiology, general	99	16	76	9	0	8	5	50	4	0	0
Physiology, oncology, and cancer biology nec	184	51	129	20	0	14	7	83	5	0	0
Biological and biomedical sciences, other	1,478	411	987	99	1	97	44	652	49	17	28
Biology/ biological sciences, general	473	123	321	30	1	31	14	208	19	6	12
Biomedical sciences, general	374	84	256	29	0	35	15	153	12	6	6
Botany and plant biology	45	9	35	5	0	2	2	26	0	0	0
Entomology	134	41	88	7	0	3	2	68	2	0	6
Plant pathology and phytopathology	98	57	39	4	0	2	3	26	1	1	2
Plant physiology and biology nec	70	29	39	6	0	4	1	26	2	0	0
Zoology and animal biology	84	9	75	4	0	2	2	61	5	0	1
Biological and biomedical sciences nec	200	59	134	14	0	18	5	84	8	4	1
Computer and information sciences	2,188	1,318	774	43	1	153	42	473	25	18	19
Computer science	1,484	885	539	27	1	103	18	341	22	16	11
Computer science	1,484	885	539	27	1	103	18	341	22	16	11
Computer and information sciences, other	704	433	235	16	0	50	24	132	3	2	8
Artificial intelligence	205	141	58	4	0	17	5	30	0	2	0
Computer and information sciences, general	130	88	28	3	0	7	1	14	0	0	3

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Computer systems networking and telecommunications	116	71	42	4	0	11	3	22	1	0	1
Informatics and information technology	94	46	42	0	0	5	9	26	1	0	1
Information sciences/studies	92	43	43	4	0	8	4	24	1	0	2
Computer and information sciences nec	67	44	22	1	0	2	2	16	0	0	1
Engineering	10,763	5,820	4,436	362	5	677	187	2,875	168	52	110
Biological, biomedical, and biosystems engineering	1,236	350	842	79	0	173	26	503	37	11	13
Bioengineering and biomedical engineering	1,135	306	787	75	0	163	24	469	34	10	12
Biological/biosystems engineering and biomedical technology	101	44	55	4	0	10	2	34	3	1	1
Chemical and petroleum engineering	1,255	635	569	33	2	92	19	382	28	2	11
Chemical and biomolecular engineering	205	81	122	10	1	17	4	87	3	0	0
Chemical engineering	885	439	409	19	1	68	12	275	24	1	9
Petroleum engineering	102	75	17	2	0	3	2	8	1	1	0
Chemical and petroleum engineering nec	63	40	21	2	0	4	1	12	0	0	2
Civil, environmental, and transportation engineering	1,315	823	436	35	0	50	34	285	14	6	12
Civil engineering	330	235	78	6	0	14	5	41	3	0	9
Civil and environmental engineering	503	270	202	15	0	22	19	133	8	4	1
Environmental/environmental health engineering	65	30	33	4	0	3	4	21	0	1	0
Geotechnical and geoenvironmental engineering	87	54	32	5	0	3	0	23	0	1	0
Structural engineering	130	92	37	3	0	2	3	26	1	0	2
Transportation and highway engineering	112	90	22	2	0	3	2	14	1	0	0
Civil, environmental, and transportation engineering nec	88	52	32	0	0	3	1	27	1	0	0

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Electrical and computer engineering	2,132	1,471	552	45	1	101	35	334	14	7	15
Computer engineering	263	183	69	3	0	11	7	44	3	0	1
Electrical and computer engineering	1,357	958	358	31	1	69	25	214	8	5	5
Electrical and electronics engineering	438	289	96	7	0	15	3	59	2	1	9
Electrical and computer engineering nec	74	41	29	4	0	6	0	17	1	1	0
Engineering technologies	361	252	102	6	0	24	6	58	3	1	4
Electrical and electronic engineering technologies	55	39	15	2	0	5	0	8	0	0	0
Electromechanical technologies	90	57	31	1	0	6	2	18	2	0	2
Environmental control technologies	58	42	15	0	0	6	0	9	0	0	0
Engineering technologies nec	158	114	41	3	0	7	4	23	1	1	2
Industrial engineering and operations research	655	396	220	12	0	28	19	144	6	6	5
Industrial engineering	211	141	52	2	0	7	5	30	3	2	3
Industrial and systems engineering	127	77	49	5	0	10	5	28	0	0	1
Operations research	183	117	51	1	0	9	5	35	1	0	0
Systems and manufacturing engineering	134	61	68	4	0	2	4	51	2	4	1
Materials and mining engineering	925	434	443	35	1	66	15	298	16	4	8
Materials engineering	85	45	40	5	0	3	0	28	0	2	2
Materials science and engineering	783	366	371	28	1	62	13	245	16	2	4
Materials and mining engineering nec	57	23	32	2	0	1	2	25	0	0	2
Mechanical engineering	1,545	842	644	66	0	84	14	432	22	9	17
Mechanical engineering, general	1,440	771	613	62	0	80	14	411	21	8	17
Mechanical engineering nec	105	71	31	4	0	4	0	21	1	1	0
Engineering, other	1,339	617	628	51	1	59	19	439	28	6	25
Aerospace, aeronautical, astronautical, and space engineering	374	152	192	14	1	13	5	142	8	3	6
Engineering mechanics, physics, and science	166	101	51	4	0	8	1	34	1	1	2

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Mechanical and aerospace engineering	213	98	113	8	0	15	1	81	6	1	1
Nanotechnology	54	33	21	4	0	5	1	9	1	0	1
Nuclear engineering	163	53	102	12	0	5	3	73	5	1	3
Engineering nec	369	180	149	9	0	13	8	100	7	0	12
Geosciences, atmospheric, and ocean sciences	1,165	389	727	60	0	46	17	569	22	3	10
Geological and earth sciences	658	243	385	29	0	22	10	308	11	1	4
Geochemistry	42	15	26	3	0	1	0	21	1	0	0
Geology	79	18	55	4	0	3	1	44	1	1	1
Geology/ earth science, general	121	44	67	4	0	3	0	54	4	0	2
Geophysics and seismology	118	68	49	6	0	2	2	38	1	0	0
Hydrology and water resources science	89	39	49	3	0	2	2	41	1	0	0
Geological and earth sciences nec	209	59	139	9	0	11	5	110	3	0	1
Ocean, marine, and atmospheric sciences	507	146	342	31	0	24	7	261	11	2	6
Atmospheric sciences and meteorology, general	120	54	63	2	0	3	2	54	0	1	1
Atmospheric sciences and meteorology nec	95	23	69	7	0	4	1	53	3	0	1
Climatology, atmospheric chemistry/ physics	67	24	41	5	0	6	2	26	1	1	0
Marine biology and biological oceanography	97	10	81	12	0	5	1	59	3	0	1
Marine sciences	63	10	50	4	0	3	1	40	2	0	0
Oceanography, chemical/ physical	65	25	38	1	0	3	0	29	2	0	3
Health sciences	2,808	655	1,973	156	4	192	272	1,250	50	15	34
Nursing and nursing science	623	75	512	38	1	42	69	336	12	5	9
Nursing education	81	5	74	3	0	3	11	55	1	0	1
Nursing science	382	48	331	29	1	29	43	218	6	2	3
Nursing specialties and practice	160	22	107	6	0	10	15	63	5	3	5
Pharmacy and pharmaceutical sciences	460	231	192	15	0	33	10	128	1	1	4
Medicinal and pharmaceutical chemistry	75	35	40	4	0	1	0	34	0	0	1

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Pharmaceutical sciences	281	145	113	8	0	24	7	70	1	1	2
Pharmacy, pharmaceutical sciences, and administration nec	104	51	39	3	0	8	3	24	0	0	1
Public health	795	168	586	51	3	61	124	321	17	4	5
Environmental health	68	22	44	7	0	3	5	29	0	0	0
Health services research	119	30	83	6	0	7	15	51	4	0	0
Health/ medical physics	68	18	48	2	0	7	0	38	0	0	1
Public health education and promotion	112	14	97	11	1	8	32	43	1	0	1
Public health, general	212	36	156	11	1	19	35	81	7	1	1
Public health nec	216	48	158	14	1	17	37	79	5	3	2
Health sciences, other	930	181	683	52	0	56	69	465	20	5	16
Communication disorders sciences	134	21	104	10	0	6	5	83	0	0	0
Exercise science and kinesiology	102	18	79	4	0	4	5	57	5	1	3
Health sciences, general	61	5	48	6	0	5	4	31	0	1	1
Marriage and family therapy/ counseling	68	4	51	4	0	2	8	33	2	0	2
Medical clinical sciences	75	10	61	5	0	11	1	37	3	1	3
Medical, biomedical, and health informatics	75	23	49	3	0	7	2	35	2	0	0
Mental health, counseling, and therapy services and sciences	93	5	76	8	0	0	21	43	3	0	1
Rehabilitation and therapeutic sciences	149	40	107	6	0	4	10	80	2	0	5
Health sciences nec	173	55	108	6	0	17	13	66	3	2	1
Mathematics and statistics	2,144	1,088	966	59	2	121	26	661	50	16	31
Applied mathematics	477	252	210	13	0	27	8	144	11	3	4
Applied mathematics, general	275	140	125	5	0	17	6	88	6	1	2
Computational and applied mathematics	139	78	59	6	0	8	2	38	3	2	0
Applied mathematics nec	63	34	26	2	0	2	0	18	2	0	2
Mathematics	980	390	553	35	1	51	5	396	30	10	25
Algebra and number theory	75	39	35	2	0	4	0	26	2	1	0
Mathematics, general	763	293	435	28	1	41	5	304	25	8	23
Mathematics nec	142	58	83	5	0	6	0	66	3	1	2

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Statistics	687	446	203	11	1	43	13	121	9	3	2
Applied statistics, general	70	48	18	1	0	7	0	10	0	0	0
Mathematics and statistics	101	59	37	3	0	11	1	20	0	2	0
Statistics	469	310	132	5	1	20	11	83	9	1	2
Statistics nec	47	29	16	2	0	5	1	8	0	0	0
Multidisciplinary/interdisciplinary sciences	1,788	891	816	82	1	112	42	513	28	26	12
Interdisciplinary computer sciences	625	362	236	20	0	50	7	137	10	10	2
Computer science and engineering	230	145	68	7	0	14	3	38	3	2	1
Electrical engineering and computer science	276	159	113	6	0	27	2	65	5	7	1
Interdisciplinary computer sciences nec	119	58	55	7	0	9	2	34	2	1	0
Multidisciplinary/interdisciplinary sciences, other	1,163	529	580	62	1	62	35	376	18	16	10
Behavioral and cognitive sciences	89	23	66	8	0	4	4	46	0	4	0
Computational science and engineering	112	71	25	4	0	6	0	12	1	0	2
Data mining and machine learning	259	185	67	2	0	13	0	48	0	3	1
Data science and data analytics	94	57	33	5	0	10	1	17	0	0	0
History/ philosophy of science, technology, and society	67	15	50	6	0	3	1	38	0	1	1
Nanoscience/nanoscale science	53	24	29	3	1	2	2	18	2	1	0
Nutrition sciences	129	53	76	6	0	8	5	48	7	1	1
Multidisciplinary/interdisciplinary sciences nec	360	101	234	28	0	16	22	149	8	6	5
Physical sciences	5,428	2,124	3,108	257	5	318	81	2,241	107	36	63
Astronomy and astrophysics	289	80	204	23	1	14	10	145	6	2	3
Astronomy	109	28	78	6	1	6	5	54	4	1	1
Astrophysics	115	28	87	13	0	4	2	64	1	1	2
Astronomy and astrophysics nec	65	24	39	4	0	4	3	27	1	0	0
Chemistry	2,782	1,010	1,665	128	1	172	48	1,201	57	18	40
Analytical chemistry	366	124	238	21	0	23	6	180	7	0	1
Chemical biology	163	42	116	5	0	17	6	78	8	2	0
Chemistry, general	582	220	283	25	1	27	7	172	7	11	33

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Inorganic chemistry	324	123	199	14	0	15	2	158	7	1	2
Organic chemistry	612	207	399	28	0	42	11	302	13	1	2
Physical chemistry	315	114	200	22	0	17	4	147	7	2	1
Polymer chemistry	98	50	48	2	0	3	3	35	5	0	0
Theoretical and computational chemistry	159	78	79	5	0	18	3	53	0	0	0
Chemistry nec	163	52	103	6	0	10	6	76	3	1	1
Materials sciences	385	184	193	27	1	22	6	125	8	3	1
Materials science	176	85	87	10	1	11	1	60	2	1	1
Materials chemistry and materials sciences nec	209	99	106	17	0	11	5	65	6	2	0
Physics	1,972	850	1,046	79	2	110	17	770	36	13	19
Applied physics	161	64	83	6	0	10	3	59	5	0	0
Atomic/ molecular physics	87	37	48	1	0	6	1	38	1	0	1
Condensed matter and materials physics	433	229	200	18	0	26	2	141	8	5	0
Elementary particle physics	151	67	84	5	0	3	0	74	2	0	0
Nuclear physics	104	39	65	10	0	6	3	44	1	0	1
Optics/ optical sciences	138	61	71	3	0	12	2	49	2	0	3
Physics and astronomy	232	97	131	8	0	15	1	101	4	1	1
Physics, general	402	149	213	15	1	19	4	146	10	5	13
Plasma and high-temperature physics	51	9	40	3	0	3	0	34	0	0	0
Theoretical and mathematical physics	101	42	58	6	1	8	0	40	2	1	0
Physics and physical sciences nec	112	56	53	4	0	2	1	44	1	1	0
Psychology	3,900	328	3,295	375	10	233	288	2,153	119	44	73
Clinical psychology	1,144	38	1,029	113	5	72	56	708	37	11	27
Clinical child psychology	55	1	53	6	0	3	2	38	3	0	1
Clinical psychology	1,089	37	976	107	5	69	54	670	34	11	26
Counseling and applied psychology	1,438	108	1,226	138	2	81	150	776	43	20	16
Applied behavior analysis	44	4	39	7	0	4	0	27	0	0	1
Counseling psychology	399	18	350	45	1	35	45	197	9	13	5
Educational psychology	247	36	192	17	0	13	24	122	7	2	7
Industrial and organizational psychology	198	14	173	24	0	11	20	114	2	1	1
School psychology	247	12	224	21	0	11	20	152	18	1	1

Table 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Counseling and applied psychology nec	303	24	248	24	1	7	41	164	7	3	1
Research and experimental psychology	854	141	701	80	2	62	43	469	25	5	15
Behavioral neuroscience	105	6	98	15	0	11	5	62	5	0	0
Cognitive psychology and psycholinguistics	100	24	73	7	0	9	2	51	3	0	1
Developmental and child psychology	114	18	95	9	0	7	6	72	1	0	0
Experimental psychology	131	24	105	8	0	6	1	79	3	3	5
Social psychology	221	33	187	17	1	21	12	127	8	1	0
Research and experimental psychology nec	183	36	143	24	1	8	17	78	5	1	9
Psychology, other	464	41	339	44	1	18	39	200	14	8	15
Human development	145	22	103	11	0	5	12	67	4	1	3
Psychology, general	266	16	187	29	1	9	23	101	8	6	10
Psychology nec	53	3	49	4	0	4	4	32	2	1	2
Social sciences	5,049	1,666	3,191	335	17	290	295	2,061	113	39	41
Anthropology	409	59	329	32	3	25	13	223	22	5	6
Anthropology, general	103	12	72	6	1	3	3	49	2	3	5
Cultural anthropology	197	39	156	18	1	17	8	93	17	1	1
Physical and biological anthropology	75	5	70	4	0	3	1	59	2	1	0
Anthropology nec	34	3	31	4	1	2	1	22	1	0	0
Area, ethnic, cultural, gender, and group studies	442	88	331	57	8	30	52	159	19	4	2
Area studies	245	64	165	19	0	9	16	112	6	3	0
Ethnic studies	101	10	88	26	7	12	26	10	7	0	0
Area, ethnic, cultural, gender, and group studies nec	96	14	78	12	1	9	10	37	6	1	2
Economics	1,391	822	515	31	0	86	21	346	12	6	13
Agricultural economics	97	58	36	3	0	8	4	20	0	1	0
Applied economics	131	78	53	3	0	13	3	33	1	0	0
Development economics and international development	50	32	18	2	0	6	0	9	1	0	0
Econometrics and quantitative economics	179	148	24	2	0	2	2	10	0	0	8
Economics, general	826	449	337	17	0	44	9	248	9	5	5

Table 3-3**Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022**

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
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Environmental/natural resource economics	50	27	22	2	0	1	2	17	0	0	0
Economics nec	58	30	25	2	0	12	1	9	1	0	0
Political science and government	678	187	465	45	0	31	16	342	13	12	6
Political science and government, general	553	163	365	38	0	23	15	263	10	10	6
Political science and government nec	125	24	100	7	0	8	1	79	3	2	0
Public policy analysis	433	85	325	34	1	31	76	164	14	4	1
Education policy analysis	130	16	111	16	0	8	23	55	8	1	0
Health policy analysis	53	11	40	3	0	5	6	24	1	1	0
Public policy analysis, general	120	29	86	6	1	14	14	46	4	1	0
Public policy nec	130	29	88	9	0	4	33	39	1	1	1
Sociology, demography, and population studies	626	113	496	67	0	34	59	314	17	2	3
Sociology, general	555	97	443	56	0	33	54	280	16	2	2
Sociology, demography, and population studies nec	71	16	53	11	0	1	5	34	1	0	1
Social sciences, other	1,070	312	730	69	5	53	58	513	16	6	10
Applied linguistics	71	33	37	3	0	12	0	21	0	0	1
Archeology	105	22	83	8	1	1	0	71	1	0	1
Criminology	118	17	97	17	0	4	9	63	2	1	1
Geography and cartography	220	64	145	15	1	6	12	104	2	1	4
International relations and national security studies	128	38	88	2	0	5	4	71	5	1	0
Linguistics	192	78	108	3	1	12	3	87	1	1	0
Social sciences nec	236	60	172	21	2	13	30	96	5	2	3
Non-science and engineering	11,672	2,514	8,510	825	40	565	1,039	5,519	237	102	183
Business	1,401	667	651	46	3	110	86	365	13	15	13
Business administration and management	445	180	211	10	0	31	38	113	4	7	8
Business management and administration	297	130	131	6	0	17	23	72	2	4	7
Organizational leadership	55	5	44	2	0	4	7	26	2	3	0
Business administration and management nec	93	45	36	2	0	10	8	15	0	0	1
Business, other	956	487	440	36	3	79	48	252	9	8	5
Accounting and accounting-related	159	69	87	5	0	18	9	54	0	1	0

Table 3-3**Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022**

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Finance and financial management	210	130	74	7	0	19	5	41	1	0	1
Management information systems	92	59	31	3	0	7	5	14	0	2	0
Management sciences	77	43	29	2	0	2	6	17	1	0	1
Marketing	146	81	62	3	0	16	2	37	3	0	1
Organizational behavior studies	94	22	68	3	2	7	6	43	3	4	0
Business nec	178	83	89	13	1	10	15	46	1	1	2
Education	3,919	497	3,205	339	22	161	581	1,932	80	26	64
Education leadership and administration	1,167	71	1,050	118	9	44	250	576	20	5	28
Educational leadership and administration, general	488	40	429	44	4	16	95	253	4	1	12
Higher education and community college administration	438	16	412	41	3	23	96	228	7	4	10
Education leadership and administration nec	241	15	209	33	2	5	59	95	9	0	6
Education research	1,189	197	924	91	4	39	168	564	29	9	20
Curriculum and instruction	413	71	315	28	1	12	48	209	7	3	7
Educational assessment, evaluation, and research methods	219	54	160	14	0	9	22	106	7	0	2
Educational/instructional technology and media design	172	39	125	8	0	9	22	73	5	2	6
Higher education evaluation and research	61	6	48	5	0	2	15	23	2	1	0
Student counseling and personnel services	246	12	217	28	1	2	49	127	7	0	3
Education research nec	78	15	59	8	2	5	12	26	1	3	2
Teacher education	1,099	174	863	76	8	54	101	590	16	9	9
Adult, continuing, and workforce education and development	64	6	55	5	0	3	12	34	0	1	0
Bilingual, multilingual, and multicultural education	62	17	40	13	2	8	2	12	3	0	0
Mathematics teacher education	49	9	39	2	0	4	3	25	4	0	1
Music teacher education	73	6	67	3	0	1	9	52	1	0	1

Table 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
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Special education and teaching	258	45	198	22	3	12	18	139	2	1	1
STEM educational methods	84	10	73	7	1	4	7	52	2	0	0
Teacher education, science and engineering	76	12	60	4	1	2	7	43	1	2	0
Teacher education, specific levels and methods	188	24	158	5	0	7	27	108	2	3	6
Teacher education, specific subject areas	245	45	173	15	1	13	16	125	1	2	0
Education, other	464	55	368	54	1	24	62	202	15	3	7
Education, general	327	39	251	32	1	21	46	133	10	3	5
Education nec	137	16	117	22	0	3	16	69	5	0	2
Humanities	3,369	560	2,634	268	4	126	143	1,909	78	33	73
English language and literature, letters	1,062	108	910	69	2	43	50	688	30	9	19
American literature (United States)	138	11	126	10	0	4	12	91	6	2	1
Creative writing	75	5	68	7	0	1	6	49	4	1	0
English language and literature, general	397	39	322	28	1	19	15	230	8	5	16
English literature (British and Commonwealth)	160	22	137	4	1	4	3	122	3	0	0
Rhetoric, composition, and writing studies	217	12	201	15	0	11	11	153	8	1	2
English language and literature nec	75	19	56	5	0	4	3	43	1	0	0
Foreign languages, literatures, and linguistics	538	183	332	88	1	15	10	191	9	2	16
Comparative literature	91	28	57	8	0	4	3	40	1	0	1
Hispanic/ Latin American languages, literatures, and linguistics	92	34	56	33	0	2	1	16	3	0	1
Romance languages, literatures, and linguistics	104	35	66	5	0	1	3	48	3	0	6
Spanish language and literature	92	28	59	35	0	0	1	19	0	0	4
Foreign languages, literatures, and linguistics nec	159	58	94	7	1	8	2	68	2	2	4
History	732	103	593	54	1	21	39	442	20	6	10
American history (United States)	245	11	228	16	0	4	24	171	11	1	1
European history	120	14	106	1	0	3	1	97	2	0	2
History, general	146	23	98	8	1	2	9	68	3	2	5

Table 3-3**Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022**

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
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History, regional focus	145	48	92	21	0	12	3	49	2	3	2
History nec	76	7	69	8	0	0	2	57	2	0	0
Philosophy and religious studies	642	104	511	36	0	27	28	378	14	9	19
Philosophy	432	81	333	24	0	15	16	248	9	7	14
Religion/ religious studies	140	14	121	10	0	3	11	90	4	0	3
Philosophy and religious studies nec	70	9	57	2	0	9	1	40	1	2	2
Humanities, other	395	62	288	21	0	20	16	210	5	7	9
Bible/ biblical studies	90	11	74	1	0	7	5	56	2	2	1
Humanities and humanistic studies	79	19	54	9	0	4	2	36	1	1	1
Theological and ministerial studies	226	32	160	11	0	9	9	118	2	4	7
Visual and performing arts	842	177	619	58	3	55	31	431	20	9	12
Performing arts	495	106	354	33	1	18	24	255	14	2	7
Dance, drama, theatre arts, and stagecraft	85	11	66	7	1	2	5	45	4	1	1
Music performance	120	35	71	6	0	8	6	48	2	1	0
Music theory and composition	94	25	69	7	0	3	2	56	1	0	0
Musicology and ethnomusicology	112	17	94	8	0	3	5	71	5	0	2
Music nec	84	18	54	5	0	2	6	35	2	0	4
Visual arts, media studies, and design	347	71	265	25	2	37	7	176	6	7	5
Art history, criticism, and conservation	208	32	171	18	0	25	1	113	6	4	4
Film, cinema, and media studies	74	18	53	5	0	5	4	37	0	1	1
Visual arts, media studies, and design nec	65	21	41	2	2	7	2	26	0	2	0
Other non-science and engineering	2,141	613	1,401	114	8	113	198	882	46	19	21
Communications and journalism	586	171	386	28	2	29	29	276	10	8	4
Applied communication, advertising, and public relations	103	31	69	4	2	5	2	56	0	0	0
Communication and media studies	145	38	101	9	0	4	9	75	0	2	2
Communication, general	166	36	121	8	0	9	10	85	6	3	0
Mass communication/ media studies	94	37	51	2	0	7	6	31	2	2	1
Communications and journalism nec	78	29	44	5	0	4	2	29	2	1	1

Table 3-3**Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2022**

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
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Multidisciplinary/interdisciplinary studies	391	64	291	18	1	16	30	210	10	3	3
Classical and ancient studies	100	17	77	4	0	2	0	68	3	0	0
Interdisciplinary leadership/ leadership studies	124	6	101	6	0	5	23	64	2	0	1
Multidisciplinary/interdisciplinary studies nec	167	41	113	8	1	9	7	78	5	3	2
Public administration and social services	468	105	338	34	4	28	82	167	14	4	5
Public administration	178	65	112	7	1	11	23	59	7	2	2
Social work and human services	290	40	226	27	3	17	59	108	7	2	3
Non-science and engineering, other	696	273	386	34	1	40	57	229	12	4	9
Architecture and architectural studies	99	60	34	2	0	3	2	26	1	0	0
City/ urban, community, and regional planning	103	46	55	4	1	6	6	32	3	0	3
Family, consumer, and human sciences	128	33	92	9	0	13	17	45	2	2	4
Homeland security and protective services	154	45	96	12	0	7	18	52	3	2	2
Law/ legal studies and research	71	46	17	2	0	2	1	12	0	0	0
Parks, recreation, leisure, fitness, and sport studies and management	115	35	75	4	0	6	10	52	3	0	0
Other non-science and engineering nec	26	8	17	1	0	3	3	10	0	0	0

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

^a Includes doctorate recipients who did not report citizenship status.**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 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, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

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