

TABLE 4-5

**Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2021**

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
All detailed fields	13,928	697	10,864	687	7,346	413	7,624	338	5,690	262
Science	9,898	676	7,467	659	5,256	379	4,457	324	3,326	250
Agricultural and veterinary sciences	331	89	297	88	211	55	276	73	241	59
Agricultural sciences	298	87	271	87	187	54	198	61	169	46
Veterinary biomedical and clinical sciences	33	25	26	22	24	19	78	34	72	31
Biological and biomedical sciences	2,694	511	1,604	491	1,860	289	1,808	276	1,284	203
Biochemistry	183	150	85	82	153	128	139	110	118	91
Biology	383	345	338	318	157	148	188	167	147	114
Biomedical sciences	175	136	112	97	106	87	116	49	51	36
Biophysics	42	36	6	6	41	36	19	16	9	9
Biostatistics and bioinformatics	196	122	146	107	123	84	77	49	59	42
Biotechnology	85	75	78	68	9	9	18	15	14	12
Botany and plant biology	61	46	51	42	55	41	44	32	29	23
Cell, cellular biology, and anatomical sciences	199	127	81	68	161	107	118	91	79	62
Ecology and population biology	109	88	73	62	80	64	57	46	53	40
Epidemiology	88	73	61	55	65	60	43	39	26	24
Genetics	93	70	46	40	72	59	105	66	76	50
Microbiological sciences and immunology	180	126	84	73	149	108	161	110	107	74
Molecular biology	54	48	21	21	40	34	48	37	32	30
Neurobiology and neuroscience	175	132	41	38	159	125	137	95	96	69
Nutrition science	112	88	97	80	55	51	32	27	41	21
Pathology and experimental pathology	45	42	16	16	39	38	69	49	39	34
Pharmacology and toxicology	141	103	57	52	122	94	96	79	69	56
Physiology	202	136	107	89	146	104	172	93	106	64
Zoology and animal biology	70	48	59	45	60	42	49	34	31	24
Biological and biomedical sciences nec	101	70	45	38	68	51	120	54	102	43
Computer and information sciences	1,023	431	945	427	288	189	196	130	137	85
Artificial intelligence, informatics, and computer and information science topics	84	67	77	63	20	16	17	16	15	13
Computer and information sciences	215	169	185	164	86	68	49	46	29	23
Computer and information systems security	142	113	140	112	7	6	4	4	4	4
Computer science	273	229	254	221	125	111	88	77	54	49
Information science and studies	127	94	117	91	29	26	13	13	9	9
Information technology	90	75	86	73	11	9	3	3	4	4
Computer and information sciences nec	92	67	86	64	10	9	22	16	22	16
Geosciences, atmospheric sciences, and ocean sciences	391	223	331	204	267	155	256	139	235	118
Atmospheric sciences and meteorology	51	47	41	39	42	40	42	29	42	28
Geological and earth sciences	258	195	223	178	166	133	134	112	124	92

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Ocean and marine sciences	82	59	67	55	59	46	53	40	50	35
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	27	11	19	10
Mathematics and statistics	724	351	628	342	335	194	186	120	72	50
Applied mathematics	212	154	176	137	80	70	34	32	16	14
Mathematics	313	288	270	257	165	160	102	94	31	30
Statistics	199	161	182	155	90	83	50	47	25	22
Multidisciplinary and interdisciplinary studies	396	223	311	197	136	101	174	89	178	83
Biological and physical sciences	34	31	26	24	16	15	20	13	12	10
Computational science	50	45	41	38	17	16	9	7	7	7
Data science and data analytics	50	45	49	44	2	2	13	11	8	7
International and global studies	34	31	29	29	9	8	5	5	7	5
Multidisciplinary and interdisciplinary studies nec	228	145	166	115	92	72	127	67	144	66
Natural resources and conservation	362	207	316	196	154	100	144	80	135	75
Environmental science and studies	207	159	179	145	70	60	49	44	48	39
Forestry, natural resources, and conservation	155	85	137	84	84	53	95	49	87	48
Physical sciences	779	327	570	306	544	226	557	225	410	169
Astronomy and astrophysics	58	50	15	14	51	46	67	49	53	37
Chemistry	355	305	287	265	228	203	220	194	161	146
Materials sciences	54	45	37	33	41	37	29	24	20	14
Physics	282	236	209	192	211	188	225	178	156	118
Physical sciences nec	30	24	22	18	13	12	16	16	20	15
Psychology	1,141	474	818	431	509	241	246	150	172	114
Applied psychology	399	279	337	247	143	118	44	36	25	19
Clinical psychology	122	110	61	54	67	65	20	18	7	7
Counseling psychology	127	118	94	90	48	47	6	6	6	5
Human development	72	65	61	60	29	27	35	30	29	26
Psychology, general	267	246	199	192	110	101	102	93	75	69
Research and experimental psychology	154	115	66	56	112	88	39	32	30	26
Social sciences	2,057	412	1,647	402	952	206	614	145	462	131
Agricultural and natural resource economics	40	36	36	36	17	16	22	21	15	15
Anthropology	175	158	127	123	108	102	57	51	39	34
Area, ethnic, cultural, gender, and group studies	309	139	246	128	116	67	106	44	47	24
Criminal justice and safety studies	115	108	110	106	22	22	9	8	7	6
Criminology	43	41	41	40	13	13	2	2	4	4
Economics (except agricultural and natural resource)	276	201	219	177	157	132	63	48	48	37
Geography and cartography	173	141	166	139	69	66	43	36	30	26
International relations and national security studies	104	82	98	78	16	16	18	14	19	12
Linguistics	106	92	77	70	63	58	29	25	13	12
Political science and government	210	192	166	157	125	120	49	46	24	22

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Public policy analysis	141	105	106	86	58	50	59	45	72	47
Sociology and population studies	228	209	154	148	129	121	66	56	49	44
Urban studies and affairs	38	30	29	24	15	14	6	6	10	7
Social sciences, other	99	81	72	63	44	42	85	56	85	41
Engineering	2,479	327	2,204	322	1,437	233	1,090	212	829	169
Aerospace, aeronautical, and astronautical engineering	72	63	70	63	51	48	35	34	28	24
Biological, biomedical, and biosystems engineering	228	177	191	161	163	141	146	114	102	85
Chemical, petroleum, and chemical-related engineering	193	144	174	137	144	121	133	112	81	69
Chemical engineering	169	142	152	134	128	120	120	110	70	65
Petroleum engineering	24	22	22	22	16	16	13	12	11	9
Civil, environmental, transportation and related engineering fields	367	203	336	200	205	140	174	123	123	86
Civil engineering	239	195	223	192	146	136	154	116	108	81
Architectural, environmental, construction and surveying engineering	128	95	113	90	59	48	20	20	15	14
Electrical, electronics, communications and computer engineering	469	255	433	253	242	173	159	136	137	100
Electrical, electronics, and communications engineering	290	231	265	227	174	165	144	131	125	97
Computer engineering	179	131	168	129	68	63	15	14	12	11
Industrial, manufacturing, systems engineering and operations research	248	146	225	141	115	86	44	41	38	25
Industrial and manufacturing engineering	129	105	125	103	60	58	31	30	23	16
Systems engineering and operations research	119	79	100	73	55	38	13	12	15	13
Mechanical engineering	298	228	279	225	174	160	158	137	102	89
Metallurgical, mining, materials and related engineering fields	154	97	133	89	114	82	78	57	59	43
Other engineering	450	191	363	172	229	125	163	90	159	86
Agricultural engineering	31	26	29	26	26	23	19	18	16	15
Engineering mechanics, physics, and science	68	50	47	39	45	35	24	21	20	16
Nuclear engineering	32	28	30	27	28	26	12	11	8	7
Engineering, other	319	160	257	142	130	84	108	68	115	70
Health	1,551	448	1,193	427	653	225	2,077	173	1,535	137
Clinical medicine <sup>a</sup>	585	270	500	264	211	112	1,713	134	1,268	109
Medical clinical sciences and clinical and medical laboratory sciences	80	60	61	50	29	25	48	29	45	20
Public health	505	259	439	254	182	100	180	88	141	71
Anesthesiology	ne	ne	ne	ne	ne	ne	47	40	30	26
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	54	35	35	27

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Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	41	36	27	23
Gastroenterology	ne	ne	ne	ne	ne	ne	37	31	27	25
Hematology	ne	ne	ne	ne	ne	ne	27	22	25	20
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	126	59	82	41
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	48	35	35	31
Oncology and cancer research	ne	ne	ne	ne	ne	ne	107	51	56	34
Ophthalmology	ne	ne	ne	ne	ne	ne	63	50	40	35
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	34	33	29	27
Pediatrics	ne	ne	ne	ne	ne	ne	127	56	89	47
Psychiatry	ne	ne	ne	ne	ne	ne	88	55	49	38
Pulmonary disease	ne	ne	ne	ne	ne	ne	37	35	26	24
Radiological sciences	ne	ne	ne	ne	ne	ne	102	47	63	38
Surgery	ne	ne	ne	ne	ne	ne	182	60	133	48
Clinical medicine nec	ne	ne	ne	ne	ne	ne	365	77	336	63
Other health	966	401	693	362	442	203	364	129	267	97
Communication disorders sciences	250	231	234	226	67	63	31	31	24	23
Dental sciences	90	45	78	43	21	18	62	31	31	21
Kinesiology and exercise science	170	157	158	148	46	44	25	24	11	11
Nursing science	140	134	24	24	125	120	41	35	36	27
Pharmaceutical sciences	127	87	83	63	94	68	100	67	75	46
Other health nec	189	128	116	92	89	70	105	62	90	50

ne = not eligible.

nec = not elsewhere classified.

<sup>a</sup> Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

**Note(s):**

"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Unit counts do not sum across columns. For more information on the mapping of GSS fields and codes, see technical table A-17.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2021.