

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2022

(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	14,354	687	11,148	677	7,545	414	7,962	332	6,204	270
Science	10,192	667	7,666	651	5,393	381	4,677	322	3,638	259
Agricultural and veterinary sciences	352	93	308	93	223	56	337	73	274	66
Agricultural sciences	318	91	283	91	201	56	220	60	195	51
Veterinary biomedical and clinical sciences	34	25	25	21	22	17	117	38	79	34
Biological and biomedical sciences	2,776	510	1,696	490	1,890	290	1,800	269	1,329	205
Biochemistry	187	149	90	83	158	128	138	111	122	91
Biology	389	350	341	324	158	149	204	169	151	120
Biomedical sciences	185	141	130	104	107	90	70	53	56	40
Biophysics	38	34	6	6	38	34	12	11	13	12
Biostatistics and bioinformatics	204	122	153	108	126	84	87	60	71	46
Biotechnology	88	77	82	71	8	8	23	19	18	16
Botany and plant biology	65	46	55	44	57	40	48	29	35	27
Cell, cellular biology, and anatomical sciences	195	125	92	72	157	107	125	89	82	61
Ecology and population biology	113	90	74	61	80	65	61	46	48	39
Epidemiology	101	80	69	60	70	65	51	44	26	22
Genetics	99	73	50	43	76	61	97	64	80	50
Microbiological sciences and immunology	184	126	88	73	150	109	173	110	112	73
Molecular biology	53	47	22	19	39	35	40	36	32	27
Neurobiology and neuroscience	187	134	47	41	167	127	140	92	98	68
Nutrition science	116	93	100	85	58	53	36	24	24	22
Pathology and experimental pathology	40	37	13	13	34	33	69	48	46	40
Pharmacology and toxicology	147	102	61	55	129	93	97	81	64	54
Physiology	206	139	111	90	148	103	174	95	117	69
Zoology and animal biology	79	48	65	44	66	42	43	32	34	28
Biological and biomedical sciences nec	100	70	47	38	64	50	112	52	100	42
Computer and information sciences	1,075	430	982	426	308	195	192	128	167	92
Artificial intelligence, informatics, and computer and information science topics	92	68	81	63	21	16	19	14	17	14
Computer and information sciences	213	168	178	161	91	72	47	45	38	28
Computer and information systems security	160	124	157	123	8	7	5	5	6	6
Computer science	291	237	266	229	137	117	83	78	61	50
Information science and studies	131	93	120	88	31	28	18	15	14	14
Information technology	98	76	94	75	11	9	3	3	2	2
Computer and information sciences nec	90	66	86	64	9	8	17	15	29	24
Geosciences, atmospheric sciences, and ocean sciences	396	224	335	207	266	155	270	137	241	120
Atmospheric sciences and meteorology	59	47	48	41	46	41	47	32	40	29
Geological and earth sciences	260	196	224	179	163	133	143	110	122	90
Ocean and marine sciences	77	60	63	54	57	46	56	39	56	39

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	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	24	12	23	9
Mathematics and statistics	748	354	644	347	345	196	200	131	81	57
Applied mathematics	218	160	183	142	80	71	36	35	19	17
Mathematics	323	291	275	257	171	162	114	101	37	34
Statistics	207	165	186	160	94	83	50	50	25	21
Multidisciplinary and interdisciplinary sciences	439	237	354	212	145	103	189	90	218	88
Biological and physical sciences	38	35	29	27	17	16	17	15	14	13
Computational science	56	46	48	40	15	14	11	9	6	6
Data science and data analytics	70	63	69	63	5	5	14	13	14	11
International and global studies	33	30	30	28	8	7	5	5	8	6
Multidisciplinary and interdisciplinary sciences nec	242	152	178	123	100	78	142	68	176	69
Natural resources and conservation	381	208	320	197	168	102	162	89	152	79
Environmental science and studies	218	161	177	147	81	61	59	50	57	45
Forestry, natural resources, and conservation	163	86	143	85	87	54	103	54	95	49
Physical sciences	806	326	577	305	565	227	593	221	449	182
Astronomy and astrophysics	61	53	15	15	54	48	70	50	58	38
Chemistry	356	307	292	268	229	203	221	191	174	147
Materials sciences	63	50	36	32	48	40	24	20	25	19
Physics	298	237	216	192	219	189	258	180	167	126
Physical sciences nec	28	24	18	16	15	14	20	19	25	18
Psychology	1,158	474	828	427	518	242	266	149	210	123
Applied psychology	416	285	352	257	148	120	42	34	29	23
Clinical psychology	123	111	63	55	66	65	16	14	6	4
Counseling psychology	121	114	90	88	47	47	8	8	6	6
Human development	70	63	60	57	27	26	39	31	53	32
Psychology, general	264	238	197	186	109	96	118	104	88	79
Research and experimental psychology	164	119	66	53	121	94	43	34	28	26
Social sciences	2,061	411	1,622	401	965	208	668	150	517	135
Agricultural and natural resource economics	37	30	32	29	16	15	23	23	15	15
Anthropology	178	157	128	121	111	103	65	58	40	31
Area, ethnic, cultural, gender, and group studies	292	135	227	124	116	66	120	46	52	25
Criminal justice and safety studies	119	111	114	109	23	23	8	7	10	9
Criminology	46	44	43	42	14	14	5	5	5	5
Economics (except agricultural and natural resource)	295	202	229	176	164	131	58	45	47	38
Geography and cartography	164	135	157	132	65	63	44	39	22	18
International relations and national security studies	100	80	96	77	12	12	18	15	18	10
Linguistics	107	94	77	70	64	58	30	26	16	15
Political science and government	213	191	158	149	131	123	56	45	31	28
Public policy analysis	148	106	112	88	60	50	64	52	89	56
Sociology and population studies	224	202	148	142	127	120	77	64	56	42

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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
Urban studies and affairs	39	30	30	24	15	14	9	8	17	10
Social sciences, other	99	80	71	60	47	44	91	54	99	41
Engineering	2,545	328	2,250	321	1,455	233	1,152	214	928	184
Aerospace, aeronautical, and astronautical engineering	73	65	71	65	52	50	39	32	36	32
Biological, biomedical, and biosystems engineering	234	179	193	160	167	143	145	116	124	92
Chemical, petroleum, and chemical-related engineering	202	144	182	139	147	121	144	119	97	72
Chemical engineering	174	142	157	136	130	121	135	116	87	71
Petroleum engineering	28	21	25	21	17	16	9	9	10	9
Civil, environmental, transportation and related engineering fields	388	207	357	203	209	140	190	125	134	90
Civil engineering	249	196	233	193	148	135	169	116	119	85
Architectural, environmental, construction and surveying engineering	139	99	124	94	61	51	21	21	15	14
Electrical, electronics, communications and computer engineering	481	254	441	250	247	175	165	131	140	102
Electrical, electronics, and communications engineering	299	230	272	226	178	165	146	126	129	99
Computer engineering	182	131	169	127	69	64	19	17	11	9
Industrial, manufacturing, systems engineering and operations research	241	150	224	144	107	89	44	40	49	33
Industrial and manufacturing engineering	125	105	121	103	61	59	31	27	31	23
Systems engineering and operations research	116	83	103	77	46	37	13	13	18	14
Mechanical engineering	301	229	279	225	178	162	163	136	110	92
Metallurgical, mining, materials and related engineering fields	147	97	127	90	106	80	82	59	62	45
Other engineering	478	198	376	176	242	129	180	98	176	89
Agricultural engineering	34	28	31	28	27	24	25	22	16	15
Engineering mechanics, physics, and science	68	51	46	38	47	37	25	22	27	17
Nuclear engineering	29	28	27	27	26	26	13	12	11	10
Engineering, other	347	169	272	146	142	90	117	74	122	73
Health	1,617	452	1,232	434	697	229	2,133	180	1,638	140
Clinical medicine	600	273	513	266	218	118	1,730	141	1,332	111
Medical clinical sciences and clinical and medical laboratory sciences	75	56	56	46	30	27	31	22	44	21
Public health	525	262	457	257	188	105	185	98	164	82
Anesthesiology	ne	ne	ne	ne	ne	ne	46	39	33	29
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	60	35	35	26
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	43	36	28	23
Gastroenterology	ne	ne	ne	ne	ne	ne	43	33	25	23

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Hematology	ne	ne	ne	ne	ne	ne	31	25	24	19
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	118	58	87	47
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	43	28	39	30
Oncology and cancer research	ne	ne	ne	ne	ne	ne	105	50	65	35
Ophthalmology	ne	ne	ne	ne	ne	ne	61	48	41	36
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	35	33	29	27
Pediatrics	ne	ne	ne	ne	ne	ne	135	56	104	44
Psychiatry	ne	ne	ne	ne	ne	ne	86	56	54	41
Pulmonary disease	ne	ne	ne	ne	ne	ne	35	33	28	27
Radiological sciences	ne	ne	ne	ne	ne	ne	113	51	86	38
Surgery	ne	ne	ne	ne	ne	ne	189	60	141	50
Clinical medicine nec	ne	ne	ne	ne	ne	ne	371	80	305	62
Other health	1,017	403	719	367	479	209	403	133	306	103
Communication disorders sciences	259	237	240	231	72	65	32	31	30	29
Dental sciences	97	45	84	44	23	20	66	33	42	23
Kinesiology and exercise science	176	157	162	148	47	45	25	25	17	17
Nursing science	149	138	24	24	136	127	55	43	52	32
Pharmaceutical sciences	135	88	88	66	101	70	109	68	78	49
Other health nec	201	140	121	99	100	76	116	61	87	46

ne = not eligible.

nec = not elsewhere classified.

Note(s):

For postdoctoral appointees and doctorate-holding nonfaculty researchers, "field" refers to the field of the unit that reports information on these groups 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. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2022.