

TABLE A-5a

Science, engineering, and health organizational units with doctorate-holding nonfaculty researchers, by detailed field: 2021–23

(Number)

Field	2021	2022	2023
All surveyed fields	5,690	6,204	6,418
Science	3,326	3,638	3,713
Agricultural and veterinary sciences	241	274	292
Agricultural sciences	169	195	204
Veterinary biomedical and clinical sciences	72	79	88
Biological and biomedical sciences	1,284	1,329	1,340
Biochemistry	118	122	120
Biology	147	151	144
Biomedical sciences	51	56	55
Biophysics	9	13	10
Biostatistics and bioinformatics	59	71	84
Biotechnology	14	18	18
Botany and plant biology	29	35	33
Cell, cellular biology, and anatomical sciences	79	82	93
Ecology and population biology	53	48	47
Epidemiology	26	26	34
Genetics	76	80	76
Microbiological sciences and immunology	107	112	118
Molecular biology	32	32	27
Neurobiology and neuroscience	96	98	97
Nutrition science	41	24	24
Pathology and experimental pathology	39	46	48
Pharmacology and toxicology	69	64	68
Physiology	106	117	109
Zoology and animal biology	31	34	40
Biological and biomedical sciences nec	102	100	95
Computer and information sciences	137	167	198
Artificial intelligence, informatics, and computer and information science topics	15	17	25
Computer and information sciences	29	38	49
Computer and information systems security	4	6	5
Computer science	54	61	65
Information science and studies	9	14	17
Information technology	4	2	6
Computer and information sciences nec	22	29	31
Geosciences, atmospheric, and ocean sciences	235	241	256
Atmospheric sciences and meteorology	42	40	41

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(Number)

Field	2021	2022	2023
Geological and earth sciences	124	122	136
Ocean and marine sciences	50	56	57
Geosciences, atmospheric, and ocean sciences nec	19	23	22
Mathematics and statistics	72	81	89
Applied mathematics	16	19	20
Mathematics	31	37	45
Statistics	25	25	24
Multidisciplinary and interdisciplinary sciences	178	218	197
Biological and physical sciences	12	14	12
Computational science	7	6	10
Data science and data analytics	8	14	19
International and global studies	7	8	9
Multidisciplinary and interdisciplinary sciences nec	144	176	147
Natural resources and conservation	135	152	140
Environmental science and studies	48	57	53
Forestry, natural resources, and conservation	87	95	87
Physical sciences	410	449	451
Astronomy and astrophysics	53	58	63
Chemistry	161	174	163
Materials sciences	20	25	29
Physics	156	167	171
Physical sciences nec	20	25	25
Psychology	172	210	217
Applied psychology	25	29	32
Clinical psychology	7	6	9
Counseling psychology	6	6	4
Human development	29	53	51
Psychology, general	75	88	92
Research and experimental psychology	30	28	29
Social sciences	462	517	533
Agricultural and natural resource economics	15	15	21
Anthropology	39	40	35
Area, ethnic, cultural, gender, and group studies	47	52	57
Criminal justice and safety studies	7	10	9
Criminology	4	5	4
Economics (except agricultural and natural resource)	48	47	42

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(Number)

Field	2021	2022	2023
Geography and cartography	30	22	27
International relations and national security studies	19	18	26
Linguistics	13	16	21
Political science and government	24	31	35
Public policy analysis	72	89	86
Sociology	49	56	59
Urban studies and affairs	10	17	9
Social sciences, other	85	99	102
Engineering	829	928	953
Aerospace, aeronautical, and astronautical engineering	28	36	35
Biological, biomedical, and biosystems engineering	102	124	126
Chemical, petroleum, and chemical-related engineering	81	97	97
Chemical engineering	70	87	88
Petroleum engineering	11	10	9
Civil, environmental, transportation and related engineering fields	123	134	152
Civil engineering	108	119	131
Architectural, environmental, construction and surveying engineering	15	15	21
Electrical, electronics, communications and computer engineering	137	140	152
Electrical, electronics, and communications engineering	125	129	138
Computer engineering	12	11	14
Industrial, manufacturing, systems engineering and operations research	38	49	46
Industrial and manufacturing engineering	23	31	29
Systems engineering and operations research	15	18	17
Mechanical engineering	102	110	111
Metallurgical, mining, materials and related engineering fields	59	62	58
Other engineering	159	176	176
Agricultural engineering	16	16	15
Engineering mechanics, physics, and science	20	27	25
Nuclear engineering	8	11	10
Engineering, other	115	122	126
Health	1,535	1,638	1,752
Clinical medicine	1,268	1,332	1,392
Anesthesiology	30	33	34
Cardiology	35	35	35
Endocrinology	27	28	29
Gastroenterology	27	25	23

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(Number)

Field	2021	2022	2023
Hematology	25	24	24
Medical clinical sciences and clinical and medical laboratory sciences	45	44	70
Neurology	82	87	87
Obstetrics and gynecology	35	39	40
Oncology and cancer research	56	65	85
Ophthalmology	40	41	45
Otorhinolaryngology	29	29	28
Pediatrics	89	104	103
Psychiatry	49	54	56
Public health	141	164	182
Pulmonary disease	26	28	28
Radiological sciences	63	86	81
Surgery	133	141	141
Clinical medicine nec	336	305	301
Other health	267	306	360
Communication disorders sciences	24	30	36
Dental sciences	31	42	45
Kinesiology and exercise science	11	17	15
Nursing science	36	52	61
Pharmaceutical sciences	75	78	88
Other health nec	90	87	115

nec = not elsewhere classified.

Note(s):

For doctorate-holding nonfaculty researchers, "field" refers to the field of the unit that reports information on these groups to the Graduate Students and Postdoctorates in Science and Engineering (GSS). This table only contains fields where graduate students may be reported. 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.