

TABLE A-5a

Science, engineering, and health organizational units with doctorate-holding nonfaculty researchers, by detailed field: 2020–22

(Number)

Field	2020	2021	2022
All surveyed fields ^a	5,671	5,690	6,204
Science	3,258	3,326	3,638
Agricultural and veterinary sciences	236	241	274
Agricultural sciences	169	169	195
Veterinary biomedical and clinical sciences ^b	67	72	79
Biological and biomedical sciences	1,271	1,284	1,329
Biochemistry	118	118	122
Biology	139	147	151
Biomedical sciences	33	51	56
Biophysics	13	9	13
Biostatistics and bioinformatics	64	59	71
Biotechnology	14	14	18
Botany and plant biology	31	29	35
Cell, cellular biology, and anatomical sciences	83	79	82
Ecology and population biology	42	53	48
Epidemiology	28	26	26
Genetics	80	76	80
Microbiological sciences and immunology	122	107	112
Molecular biology	30	32	32
Neurobiology and neuroscience	101	96	98
Nutrition science	25	41	24
Pathology and experimental pathology	46	39	46
Pharmacology and toxicology	73	69	64
Physiology	116	106	117
Zoology and animal biology	37	31	34
Biological and biomedical sciences nec	76	102	100
Computer and information sciences	138	137	167
Artificial intelligence, informatics, and computer and information science topics	18	15	17
Computer and information sciences	28	29	38
Computer and information systems security	1	4	6
Computer science	57	54	61
Information science and studies	10	9	14
Information technology	4	4	2
Computer and information sciences nec	20	22	29
Geosciences, atmospheric sciences, and ocean sciences	219	235	241
Atmospheric sciences and meteorology	43	42	40
Geological and earth sciences	117	124	122
Ocean and marine sciences	43	50	56
Geosciences, atmospheric sciences, and ocean sciences nec	16	19	23
Mathematics and statistics	68	72	81
Applied mathematics	13	16	19
Mathematics	28	31	37
Statistics	27	25	25
Multidisciplinary and interdisciplinary sciences ^c	151	178	218
Biological and physical sciences	13	12	14
Computational science	6	7	6
Data science and data analytics	10	8	14
International and global studies	10	7	8
Multidisciplinary and interdisciplinary sciences nec	112	144	176
Natural resources and conservation	126	135	152
Environmental science and studies	44	48	57

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(Number)

Field	2020	2021	2022
Forestry, natural resources, and conservation	82	87	95
Physical sciences	420	410	449
Astronomy and astrophysics	55	53	58
Chemistry	164	161	174
Materials sciences	24	20	25
Physics	155	156	167
Physical sciences nec	22	20	25
Psychology	167	172	210
Applied psychology	21	25	29
Clinical psychology	7	7	6
Counseling psychology	5	6	6
Human development ^d	32	29	53
Psychology, general	77	75	88
Research and experimental psychology	25	30	28
Social sciences	462	462	517
Agricultural and natural resource economics	18	15	15
Anthropology	39	39	40
Area, ethnic, cultural, gender, and group studies	57	47	52
Criminal justice and safety studies	8	7	10
Criminology	3	4	5
Economics (except agricultural and natural resource)	48	48	47
Geography and cartography	32	30	22
International relations and national security studies	11	19	18
Linguistics	14	13	16
Political science and government	27	24	31
Public policy analysis	73	72	89
Sociology	47	49	56
Urban studies and affairs	8	10	17
Social sciences, other ^e	77	85	99
Engineering ^f	851	829	928
Aerospace, aeronautical, and astronautical engineering	29	28	36
Biological, biomedical, and biosystems engineering ^e	102	102	124
Chemical, petroleum, and chemical-related engineering	86	81	97
Chemical engineering	75	70	87
Petroleum engineering	11	11	10
Civil, environmental, transportation and related engineering fields	127	123	134
Civil engineering	112	108	119
Architectural, environmental, construction and surveying engineering	15	15	15
Electrical, electronics, communications and computer engineering	139	137	140
Electrical, electronics, and communications engineering	127	125	129
Computer engineering	12	12	11
Industrial, manufacturing, systems engineering and operations research	43	38	49
Industrial and manufacturing engineering	22	23	31
Systems engineering and operations research	21	15	18
Mechanical engineering	99	102	110
Metallurgical, mining, materials and related engineering fields ^e	64	59	62
Other engineering	162	159	176
Agricultural engineering	15	16	16
Engineering mechanics, physics, and science	20	20	27
Nuclear engineering	11	8	11

TABLE A-5a

Science, engineering, and health organizational units with doctorate-holding nonfaculty researchers, by detailed field: 2020–22

(Number)

Field	2020	2021	2022
Engineering, other ^e	116	115	122
Health	1,562	1,535	1,638
Clinical medicine	1,268	1,268	1,332
Anesthesiology	38	30	33
Cardiology	34	35	35
Endocrinology	29	27	28
Gastroenterology	20	27	25
Hematology	27	25	24
Medical clinical sciences and clinical and medical laboratory sciences	55	45	44
Neurology	75	82	87
Obstetrics and gynecology	33	35	39
Oncology and cancer research	65	56	65
Ophthalmology	46	40	41
Otorhinolaryngology	28	29	29
Pediatrics	96	89	104
Psychiatry	51	49	54
Public health	137	141	164
Pulmonary disease	28	26	28
Radiological sciences	70	63	86
Surgery	127	133	141
Clinical medicine nec	309	336	305
Other health	294	267	306
Communication disorders sciences	24	24	30
Dental sciences	35	31	42
Kinesiology and exercise science	20	11	17
Nursing science	38	36	52
Pharmaceutical sciences	83	75	78
Other health nec	94	90	87

nec = not elsewhere classified.

^a Several field names changed in 2020; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) collection and reporting for 2020. For a complete list of field names used from 2017 to 2020, see <https://nces.nsf.gov/pubs/nsf21318/table/A-17>.

^b In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

^c Prior to 2020, multidisciplinary and interdisciplinary studies was reported as a single broad field with no detailed fields; the detailed fields were added in 2020.

^d In 2020, human development moved from social sciences to psychology.

^e Starting in 2020, some fields were combined for reporting. See technical table A-17 for more information.

^f In 2020, broad fields were added to engineering.

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 Graduate Students and Postdoctorates in Science and Engineering 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.