

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2017–19

(Number)

Field	2017	2018	2019
All surveyed fields	4,856	4,987	5,460
Science and engineering	3,460	3,642	3,931
Science	2,754	2,891	3,109
Agricultural sciences	134	146	169
Biological and biomedical sciences	1,136	1,163	1,195
Biochemistry	105	101	103
Biology	111	129	126
Biomedical sciences	27	27	37
Biophysics	5	5	7
Biostatistics and bioinformatics	56	63	57
Biotechnology	14	12	12
Botany and plant biology	36	35	31
Cell, cellular biology, and anatomical sciences	78	87	88
Ecology and population biology	40	45	35
Epidemiology	24	20	20
Genetics	67	63	74
Microbiological sciences and immunology	119	108	115
Molecular biology	23	29	29
Neurobiology and neuroscience	100	92	96
Nutrition science	22	37	24
Pathology and experimental pathology	47	47	51
Pharmacology and toxicology	78	71	75
Physiology	95	94	107
Zoology and animal biology	34	33	35
Biological and biomedical sciences nec	55	65	73
Computer and information sciences	111	126	149
Computer science	52	52	56
Computer and information sciences, general	44	45	55
Computer and information sciences nec	15	29	38
Geosciences, atmospheric sciences, and ocean sciences	198	206	226
Atmospheric sciences and meteorology	39	41	41
Geological and earth sciences	88	104	126
Ocean and marine sciences	49	44	42
Geosciences, atmospheric sciences, and ocean sciences nec	22	17	17
Mathematics and statistics	67	69	76
Mathematics and applied mathematics	50	49	53
Statistics	17	20	23
Multidisciplinary and interdisciplinary studies	161	155	177
Natural resources and conservation	87	118	133
Environmental science and studies	31	47	48
Forestry, natural resources, and conservation	56	71	85
Physical sciences	374	377	391
Astronomy and astrophysics	46	45	50
Chemistry	140	144	154
Materials sciences	21	23	21
Physics	154	150	145
Physical sciences nec	13	15	21
Psychology	106	114	129
Clinical psychology	9	5	5
Counseling and applied psychology	24	23	32
Psychology, general	50	64	73
Research and experimental psychology	23	22	19

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(Number)

Field	2017	2018	2019
Social sciences	380	417	464
Agricultural economics	17	18	19
Anthropology	29	33	35
Criminal justice and safety studies	4	6	7
Economics (except agricultural)	42	41	43
Geography and cartography	29	30	35
History and philosophy of science	3	1	2
Human development	32	26	32
International relations and national security studies	7	9	11
Linguistics	16	15	14
Political science and government	21	23	28
Public policy analysis	48	62	63
Sociology	41	42	46
Social sciences nec	91	111	129
Engineering	706	751	822
Aerospace, aeronautical, and astronautical engineering	22	26	24
Agricultural engineering	16	17	16
Bioengineering and biomedical engineering	82	76	91
Biological and biosystems engineering	6	9	11
Chemical engineering	68	71	79
Civil engineering	99	107	120
Electrical, electronics, and communications engineering	117	120	128
Engineering mechanics, physics, and science	18	18	18
Industrial and manufacturing engineering	40	39	40
Mechanical engineering	99	98	105
Metallurgical and materials engineering	39	53	59
Mining engineering	11	12	13
Nanotechnology	13	11	17
Nuclear engineering	9	13	11
Petroleum engineering	9	12	10
Engineering nec	58	69	80
Health	1,396	1,345	1,529
Clinical medicine ^a	1,121	1,044	1,195
Anesthesiology	38	38	42
Cardiology	37	33	37
Endocrinology	25	27	29
Gastroenterology	20	20	19
Hematology	20	22	28
Neurology	77	66	73
Obstetrics and gynecology	34	27	31
Oncology and cancer research	51	49	69
Ophthalmology	51	45	42
Otorhinolaryngology	26	29	27
Pediatrics	74	60	96
Psychiatry	50	52	47
Public health	116	119	135
Pulmonary disease	28	25	22
Radiological sciences	57	52	61
Surgery	107	113	127
Clinical medicine nec	310	267	310
Other health	275	301	334

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(Number)

Field	2017	2018	2019
Communication disorders sciences	21	25	23
Dental sciences	28	33	35
Nursing science	32	40	38
Pharmaceutical sciences	66	63	77
Veterinary biomedical and clinical sciences	45	54	61
Other health nec	83	86	100

nec = not elsewhere classified.

^a Clinical medicine includes nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiology, surgery, and clinical medicine.

Source(s):

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