

TABLE 15-3

**Non-U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and primary work activity: 2019**

(Number and SE)

Field of study	All employed		Primary work activity <sup>a</sup>			
			Any R&D <sup>b</sup>		Other <sup>c</sup>	
	Number	SE	Number	SE	Number	SE
All fields	126,050	1,450	60,600	1,175	65,450	1,225
Science	89,250	1,275	43,650	1,050	45,600	1,075
Biological, agricultural, and environmental life sciences	25,950	725	12,800	525	13,150	625
Agricultural and food sciences	5,000	300	2,500	250	2,500	250
Agricultural sciences	200	50	100	50	100	25
Animal sciences	1,350	150	550	125	750	150
Food sciences and technology	1,000	125	450	100	550	125
Plant sciences	1,950	200	1,200	175	800	125
Soil sciences	500	75	150	50	350	75
Biochemistry and biophysics	2,250	275	1,150	225	1,100	200
Biochemistry	1,800	250	900	225	900	175
Biophysics	400	100	200	75	200	75
Cell, cellular biology, and molecular biology	2,450	275	1,100	225	1,350	225
Microbiological sciences and immunology	2,250	275	1,200	200	1,050	200
Immunology	550	100	200	75	300	100
Microbiological sciences	1,750	225	1,000	200	750	175
Natural resources and conservation	2,100	200	950	100	1,150	175
Fish, fisheries, wildlife and wildlands science and management	450	100	200	75	250	75
Forestry	850	100	450	75	400	75
Natural resource conservation, research, management, and policy	800	125	300	50	500	125
Zoology	1,050	175	500	125	550	125
Other biological sciences	10,800	550	5,400	400	5,400	425
Biomathematics, bioinformatics, and computational biology	500	100	250	75	250	75
Botany and plant biology	1,650	200	800	150	850	175
Epidemiology, ecology, and population biology	2,300	225	1,300	175	1,000	175
Genetics	850	125	350	100	450	125
Neurobiology and neuroscience	1,400	225	750	150	650	150
Nutrition sciences	400	100	150	50	250	100
Pharmacology and toxicology	650	150	250	125	400	125
Physiology, pathology, and related sciences	1,400	225	700	175	700	150
Biological and biomedical sciences, general	1,200	200	600	150	600	175
Biological and biomedical sciences, other	450	100	250	100	200	75
Computer and information sciences	4,700	350	1,900	225	2,800	300
Computer science	4,100	350	1,650	225	2,450	300
Information science, studies	400	75	100	50	250	75
Computer and information sciences, other	200	50	100	50	100	50
Mathematics and statistics	6,800	350	3,500	325	3,350	275
Applied mathematics	700	150	450	125	250	100
Mathematics	4,300	300	2,100	250	2,200	250
Statistics	750	200	550	200	200	100
Mathematics and statistics, other	1,050	125	400	75	650	125
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	20,300	800	11,900	675	8,450	550
Astronomy and astrophysics	900	125	600	125	300	100
Chemistry, except biochemistry	6,650	450	3,600	350	3,100	375
Inorganic chemistry	850	175	450	125	400	125
Organic chemistry	1,550	275	700	175	800	200
Chemistry, other, except biochemistry	4,300	350	2,400	325	1,850	275
Geosciences, atmospheric sciences, and ocean sciences	4,000	225	2,150	175	1,850	200
Atmospheric sciences and meteorology	800	75	450	75	300	50

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Geological and earth sciences, geosciences	2,350	225	1,150	150	1,150	175
Ocean sciences and marine sciences	350	75	150	50	200	50
Oceanography, chemical and physical	550	125	350	100	200	100
Physics	8,700	525	5,550	475	3,200	375
Psychology	5,400	350	1,700	200	3,650	325
Clinical psychology	900	175	S	S	800	175
Counseling and applied psychology	400	125	*	*	350	125
Educational and school psychology	850	200	350	125	500	175
Industrial and organizational psychology	350	125	100	50	250	125
Research and experimental psychology	2,300	225	850	125	1,450	200
Psychology, general	250	100	100	75	150	75
Psychology, other	350	75	200	50	150	50
Social sciences	26,050	775	11,900	600	14,150	700
Economics	12,200	500	6,150	450	6,000	425
Political science and government	3,250	325	1,400	225	1,800	250
Political science and government	2,500	275	1,100	200	1,400	225
Public policy analysis	750	150	300	125	450	125
Sociology, demography, and population studies	2,250	250	950	175	1,300	225
Other social sciences	8,400	425	3,350	275	5,050	375
Anthropology	1,700	200	650	125	1,000	175
Area, ethnic, cultural, gender, and group studies	350	75	50	50	250	75
Geography and cartography	1,000	150	450	125	500	125
International relations and national security studies	850	125	200	75	650	125
Linguistics	2,100	250	700	150	1,400	225
Urban studies, affairs	350	75	200	75	150	50
Social sciences, other	2,150	225	1,100	175	1,100	150
Engineering	32,450	900	15,600	725	16,850	750
Aerospace, aeronautical, and astronautical engineering	1,100	200	600	150	500	175
Chemical engineering	3,700	375	2,050	300	1,650	250
Civil engineering	5,400	400	2,550	325	2,850	375
Electrical and computer engineering	8,200	500	3,800	375	4,400	425
Computer engineering	1,100	150	550	150	550	125
Electrical, electronics, and communications engineering	7,100	500	3,250	350	3,800	425
Mechanical engineering	3,700	375	1,750	275	1,900	300
Metallurgical and materials engineering	2,900	275	1,450	225	1,450	200
Other engineering	7,450	400	3,350	350	4,100	325
Agricultural engineering	300	50	150	50	150	50
Bioengineering and biomedical engineering	1,050	175	600	175	450	125
Engineering mechanics, physics, and science	950	150	450	100	500	125
Industrial and manufacturing engineering	2,800	250	1,100	200	1,700	225
Nuclear engineering	550	125	300	100	250	75
Engineering, other	1,750	175	700	125	1,050	150
Health	4,350	350	1,300	200	3,000	300
Communication disorders sciences and services	200	75	D	D	200	75
Hospital and medical administration services	200	75	150	75	50	25
Pharmacy, pharmaceutical sciences, and administration	550	125	250	100	300	100
Public health	1,150	175	350	100	750	150
Registered nursing, nursing administration, nursing research	700	175	S	S	550	175

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Health sciences, other	1,550	175	400	100	1,150	150

\* = suppressed when population estimate < 25. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

<sup>a</sup> Primary work activity on principal job.

<sup>b</sup> R&D is defined as basic research, applied research, design, and development.

<sup>c</sup> Other work activities includes all non-R&D activities.

**Note(s):**

Numbers are rounded to the nearest 50. Standard errors are rounded up to the nearest 25. Detail may exceed total due to multiple responses. Primary and secondary work activities were self-defined by respondent in response to the question: "On which two activities...did you work the most hours during a typical week on this job?" Residence location is based on reported living location on 1 February 2019.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.