TABLE 15-3

Non-U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and primary work activity: 2023

(Number and SE)

Field of study	All employed		Primary work activity[a]			
			Any R&D[b]		Other[c]	
	Number	SE	Number	SE	Number	SE
All fields	146,300	1,825	72,200	1,575	74,150	1,475
Science	102,600	1,650	51,950	1,275	50,650	1,125
Biological, agricultural, and environmental life sciences	29,550	875	15,350	725	14,150	625
Agricultural and food sciences	5,150	300	2,250	225	2,900	225
Agricultural sciences	300	50	150	50	150	25
Animal sciences	1,050	150	350	75	700	150
Food sciences and technology	1,350	175	700	150	650	125
Plant sciences	1,800	175	750	150	1,000	150
Soil sciences	650	100	350	75	350	75
Biochemistry and biophysics	3,000	400	1,900	375	1,100	250
Biochemistry	2,650	400	1,650	350	950	250
Biophysics	400	100	200	100	150	50
Cell, cellular biology, and molecular biology	2,600	350	1,650	300	950	200
Microbiological sciences and immunology	2,350	275	1,150	175	1,150	225
Immunology	800	150	400	125	400	125
Microbiological sciences	1,550	250	800	175	750	175
Natural resources and conservation	2,450	225	1,200	175	1,200	150
Fish, fisheries, wildlife, and wildlands science and management	550	100	350	100	200	50
Forestry	800	100	300	75	450	75
Natural resource conservation, research, management, and policy	1,100	175	550	125	550	125
Zoology	1,000	150	700	125	300	100
Other biological sciences	13,050	625	6,500	475	6,550	475
Biomathematics, bioinformatics, and computational biology	700	125	500	125	200	75
Botany and plant biology	1,550	200	700	125	850	175
Epidemiology, ecology, and population biology	2,800	250	1,500	200	1,250	200
Genetics	1,150	175	650	150	500	125
Neurobiology and neuroscience	2,200	300	1,100	250	1,100	225
Nutrition sciences	750	125	300	75	500	125
Pharmacology and toxicology	650	125	250	75	400	125
Physiology, pathology, and related sciences	1,550	225	650	125	850	200
Biological and biomedical sciences, general	1,150	200	550	150	600	150
Biological and biomedical sciences, other	550	150	300	125	300	100
Computer and information sciences	5,750	425	2,800	300	2,950	375
Computer science	4,800	425	2,400	300	2,400	375

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(Number and SE)

Field of study	All employed		Primary work activity[a]			
			Any R&D[b]		Other[c]	
	Number	SE	Number	SE	Number	SE
Information science, studies	450	100	150	50	250	75
Computer and information sciences, other	550	75	250	75	300	75
Mathematics and statistics	8,800	475	4,800	400	4,000	350
Applied mathematics	1,500	200	800	175	700	150
Mathematics	5,050	375	2,750	325	2,300	250
Statistics	1,150	200	650	175	500	125
Mathematics and statistics, other	1,100	125	600	125	500	100
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	22,250	925	11,750	750	10,500	600
Astronomy and astrophysics	1,200	175	650	150	550	150
Chemistry, except biochemistry	7,500	650	3,900	475	3,600	400
Inorganic chemistry	1,100	200	600	175	500	150
Organic chemistry	1,850	300	1,100	225	800	225
Chemistry, other, except biochemistry	4,550	475	2,200	325	2,300	325
Geosciences, atmospheric sciences, and ocean sciences	4,550	275	2,550	225	2,000	200
Atmospheric sciences and meteorology	850	100	450	100	400	50
Geological and earth sciences, geosciences	2,700	225	1,550	200	1,150	175
Ocean sciences and marine sciences	350	75	150	50	200	50
Oceanography, chemical and physical	650	100	400	100	250	75
Physics	9,000	625	4,650	425	4,400	475
Psychology	6,500	450	2,700	350	3,800	350
Clinical psychology	1,350	275	250	100	1,150	275
Counseling and applied psychology	400	100	150	75	250	75
Educational and school psychology	800	175	400	150	400	125
Industrial and organizational psychology	400	125	200	100	200	75
Research and experimental psychology	2,550	275	1,200	200	1,350	200
Psychology, general	650	225	S	S	300	125
Psychology, other	400	150	200	100	S	S
Social sciences	29,750	925	14,550	700	15,200	800
Economics	12,850	525	6,500	500	6,350	500
Political science and government	4,250	400	2,400	325	1,800	275
Political science and government	3,450	400	2,100	300	1,350	250
Public policy analysis	800	125	350	100	450	100
Sociology, demography, and population studies	2,700	325	1,650	275	1,050	200
Other social sciences	9,950	450	4,000	325	5,950	375

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(Number and SE)

Field of study	All employed		Primary work activity[a]			
			Any R&D[b]		Other[c]	
	Number	SE	Number	SE	Number	SE
Anthropology	2,050	200	900	150	1,150	175
Area, ethnic, cultural, gender, and group studies	500	100	100	50	350	75
Geography and cartography	1,100	150	550	125	500	125
International relations and national security studies	1,000	125	300	75	650	125
Linguistics	2,650	225	800	150	1,900	225
Urban studies, affairs	450	100	300	75	150	50
Social sciences, other	2,250	250	1,000	175	1,250	175
Engineering	38,100	1,125	17,900	925	20,200	775
Aerospace, aeronautical, and astronautical engineering	1,100	175	650	150	500	125
Chemical engineering	3,600	400	1,750	275	1,850	300
Civil engineering	6,300	450	3,050	350	3,250	350
Electrical and computer engineering	9,100	600	3,900	400	5,200	475
Computer engineering	1,450	175	650	125	850	150
Electrical, electronics, and communications engineering	7,650	550	3,250	400	4,350	475
Mechanical engineering	5,400	475	2,650	425	2,750	350
Metallurgical and materials engineering	3,650	400	2,000	300	1,650	300
Other engineering	8,950	475	3,900	400	5,000	350
Agricultural engineering	550	100	200	50	350	75
Bioengineering and biomedical engineering	1,800	250	950	200	850	200
Engineering mechanics, physics, and science	900	150	450	125	450	125
Industrial and manufacturing engineering	3,150	300	1,100	225	2,050	250
Nuclear engineering	550	100	300	75	250	75
Engineering, other	1,950	225	900	175	1,050	200
Health	5,600	425	2,350	300	3,300	350
Communication disorders sciences and services	300	100	100	50	250	100
Hospital and medical administration services	250	75	150	50	150	50
Pharmacy, pharmaceutical sciences, and administration	1,100	200	500	150	600	150
Public health	1,300	200	750	175	550	125
Registered nursing, nursing administration, nursing research	750	175	200	125	550	150
Health sciences, other	1,900	225	650	150	1,250	200

S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

[a] Primary work activity on principal job.
[b] R&D is defined as applied research, basic research, and experimental development.
[c] Other work activities include 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 not add to total because of rounding. 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 2023.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.