

TABLE 11-1

U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and years since doctorate: 2023

(Number and SE)

Field of study	All employed		≤ 5		6–10		11–15		16–20		21–25		> 25	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	908,700	2,300	143,600	575	169,900	925	146,200	925	117,750	800	105,200	1,000	226,050	1,575
Science	667,950	2,050	99,000	625	120,550	1,000	107,600	925	87,850	875	79,000	900	173,950	1,300
Biological, agricultural, and environmental life sciences	235,050	1,175	35,450	450	43,050	575	40,800	700	31,200	625	28,100	600	56,450	825
Agricultural and food sciences	17,050	400	2,250	125	2,550	150	2,150	175	2,200	175	2,150	200	5,750	275
Agricultural sciences	900	75	150	25	200	25	100	25	100	25	150	50	250	50
Animal sciences	4,650	200	650	100	600	75	500	100	600	100	500	75	1,800	175
Food sciences and technology	3,600	200	450	50	500	75	350	75	600	100	550	125	1,100	150
Plant sciences	5,850	250	700	100	1,050	100	950	125	650	125	750	150	1,750	175
Soil sciences	2,050	100	250	50	200	25	300	50	250	50	200	50	800	100
Biochemistry and biophysics	29,700	475	3,600	200	4,700	275	4,950	325	3,700	300	3,650	300	9,100	425
Biochemistry	24,150	475	2,900	175	3,550	250	3,950	300	3,100	250	2,850	250	7,800	425
Biophysics	5,600	175	700	75	1,150	100	1,050	125	600	100	800	125	1,300	150
Cell, cellular biology, and molecular biology	32,400	525	3,400	200	4,850	250	6,050	325	4,800	325	5,100	350	8,150	400
Microbiological sciences and immunology	25,400	425	3,700	175	4,800	200	4,850	275	3,850	300	2,750	250	5,400	300
Immunology	9,800	225	1,400	100	2,000	125	2,050	200	1,500	150	1,100	150	1,750	175
Microbiological sciences	15,600	350	2,300	125	2,800	150	2,800	175	2,400	250	1,650	200	3,650	250
Natural resources and conservation	9,150	275	1,500	100	2,050	150	1,700	100	1,250	125	1,050	125	1,600	125
Fish, fisheries, wildlife, and wildlands science and management	1,950	100	200	25	350	50	350	50	350	50	250	50	500	75
Forestry	2,600	150	250	25	550	75	400	50	350	50	350	50	700	100
Natural resource conservation, research, management, and policy	4,600	200	1,000	100	1,150	125	950	100	600	75	450	100	400	100
Zoology	6,400	225	700	75	750	75	800	100	850	100	1,000	125	2,300	175
Other biological sciences	114,900	750	20,300	350	23,300	425	20,350	475	14,500	475	12,400	475	24,100	625
Biomathematics, bioinformatics, and computational biology	7,150	150	2,200	125	2,250	125	1,400	100	450	75	250	50	650	100
Botany and plant biology	6,300	225	900	100	650	100	900	125	700	100	850	150	2,300	175
Epidemiology, ecology, and population biology	18,600	325	3,700	150	4,250	225	3,850	225	2,500	200	1,750	175	2,500	250
Genetics	9,550	225	1,450	100	1,750	125	1,850	150	1,450	175	1,200	125	1,800	150
Neurobiology and neuroscience	20,300	350	4,350	175	4,700	225	4,150	250	2,750	225	2,050	175	2,300	225
Nutrition sciences	4,200	150	650	75	750	75	750	75	650	100	400	75	1,050	125
Pharmacology and toxicology	13,350	250	1,200	100	1,800	150	2,050	200	2,000	200	1,700	225	4,650	275
Physiology, pathology, and related sciences	15,600	325	2,000	150	3,250	200	2,800	225	1,500	175	1,700	200	4,400	300
Biological and biomedical sciences, general	14,950	325	3,200	200	3,300	225	2,300	175	1,800	175	1,550	175	2,800	225
Biological and biomedical sciences, other	4,900	200	700	75	550	100	350	75	700	100	900	125	1,650	175
Computer and information sciences	36,350	550	7,350	275	8,600	375	7,150	400	4,450	275	3,250	275	5,600	325
Computer science	31,050	525	5,900	275	7,150	350	6,100	400	3,800	275	2,900	250	5,200	325
Information science, studies	2,750	125	450	50	650	75	650	75	400	75	250	50	350	75

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	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Computer and information sciences, other	2,550	75	950	75	800	75	400	50	300	50	50	25	D	D
Mathematics and statistics	38,500	600	6,450	225	7,150	350	5,850	325	5,150	300	4,050	300	9,800	375
Applied mathematics	9,150	225	1,850	125	1,750	150	1,400	150	1,350	150	1,000	150	1,800	175
Mathematics	17,100	450	2,650	175	3,250	225	2,550	175	2,050	175	1,650	175	4,950	275
Statistics	8,100	275	1,350	125	1,400	175	1,250	200	1,300	175	800	150	1,950	225
Mathematics and statistics, other	4,150	150	600	75	750	75	650	75	450	75	600	75	1,100	125
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	141,800	1,125	21,200	450	24,150	475	21,050	625	16,950	575	16,300	500	42,150	800
Astronomy and astrophysics	6,450	175	1,200	75	1,300	125	900	100	750	100	700	100	1,600	125
Chemistry, except biochemistry	69,150	850	9,700	350	11,500	350	9,550	425	8,850	400	8,500	400	21,050	600
Inorganic chemistry	8,800	250	1,300	100	1,500	125	1,100	125	900	125	1,250	125	2,800	175
Organic chemistry	17,950	425	2,050	125	2,400	175	2,750	225	2,450	250	2,550	250	5,800	300
Chemistry, other, except biochemistry	42,350	625	6,350	300	7,650	350	5,650	350	5,550	300	4,700	300	12,450	500
Geosciences, atmospheric sciences, and ocean sciences	23,150	350	3,800	150	4,350	175	3,550	175	2,600	150	2,400	150	6,450	275
Atmospheric sciences and meteorology	4,450	100	700	75	950	75	850	75	600	75	500	50	850	75
Geological and earth sciences, geosciences	13,900	300	2,350	125	2,450	125	2,000	150	1,450	125	1,400	100	4,250	225
Ocean sciences and marine sciences	2,550	75	500	50	700	50	400	50	300	25	200	50	500	50
Oceanography, chemical and physical	2,250	100	250	50	250	50	300	50	250	50	350	50	800	75
Physics	43,050	775	6,550	300	6,950	375	7,050	500	4,700	375	4,700	300	13,100	525
Psychology	112,100	900	13,700	375	17,350	450	16,450	450	15,750	525	14,800	450	34,050	725
Clinical psychology	40,450	575	4,700	200	5,550	250	5,200	300	5,350	350	5,450	325	14,200	475
Counseling and applied psychology	14,500	300	1,950	150	2,400	150	1,900	175	2,150	250	2,000	200	4,100	350
Educational and school psychology	12,400	325	1,700	125	2,000	175	2,100	225	1,950	175	1,600	175	3,050	225
Industrial and organizational psychology	5,150	150	600	75	800	75	1,050	125	650	75	650	75	1,400	125
Research and experimental psychology	27,200	425	2,900	175	4,650	225	4,600	225	4,150	225	3,650	200	7,300	350
Psychology, general	7,750	300	1,000	125	1,100	150	1,050	200	1,000	200	800	175	2,850	250
Psychology, other	4,600	175	850	75	850	75	600	100	550	75	650	100	1,150	175
Social sciences	104,100	875	14,900	325	20,250	425	16,250	500	14,350	500	12,450	450	25,900	550
Economics	27,950	550	3,700	225	4,950	275	3,950	300	3,450	275	3,100	225	8,750	400
Political science and government	21,700	500	3,150	175	4,300	225	3,500	250	3,200	275	2,550	250	5,050	350
Political science and government	17,100	500	2,150	150	3,050	225	2,500	225	2,750	250	2,150	225	4,500	350
Public policy analysis	4,650	150	1,000	75	1,250	100	1,000	100	400	75	400	75	550	75
Sociology, demography, and population studies	15,950	375	2,100	150	2,900	175	2,500	175	2,300	225	2,300	200	3,800	250
Other social sciences	38,500	525	5,950	200	8,100	250	6,250	275	5,400	225	4,500	275	8,350	375
Anthropology	11,100	325	1,300	100	1,900	150	2,050	175	1,750	150	1,650	175	2,400	225
Area, ethnic, cultural, gender, and group studies	4,450	150	850	100	1,250	100	800	100	400	75	400	75	750	100

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	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Geography and cartography	4,850	200	950	75	1,200	100	800	100	600	100	450	100	900	125
International relations and national security studies	2,350	150	400	50	400	75	350	75	300	75	250	50	600	100
Linguistics	5,100	225	850	75	1,200	125	600	100	850	125	650	125	950	125
Urban studies, affairs	1,350	100	100	25	100	25	100	50	200	50	200	50	550	75
Social sciences, other	9,350	250	1,500	100	1,950	125	1,550	125	1,300	125	900	75	2,150	200
Engineering	196,750	1,300	35,100	500	39,300	675	31,550	675	23,950	675	21,650	675	45,200	900
Aerospace, aeronautical, and astronautical engineering	8,150	200	1,400	100	1,850	125	950	125	800	125	950	125	2,200	175
Chemical engineering	23,700	500	4,150	225	4,300	250	3,400	300	2,900	275	3,150	300	5,850	400
Civil engineering	21,500	475	4,100	250	4,600	275	3,350	275	2,400	250	2,000	225	5,000	350
Electrical and Computer engineering	54,000	675	8,750	275	10,100	375	8,850	400	7,100	350	5,850	325	13,350	550
Computer engineering	8,150	200	1,650	100	1,650	150	1,650	175	950	125	800	125	1,400	150
Electrical, electronics, and communications engineering	45,850	650	7,100	250	8,450	325	7,150	375	6,150	325	5,100	300	11,900	525
Mechanical engineering	28,800	625	5,700	275	5,750	300	4,750	375	3,450	350	3,550	325	5,600	425
Metallurgical and materials engineering	18,300	450	3,150	200	3,800	225	2,950	250	2,150	225	2,100	275	4,200	300
Other engineering	42,300	550	7,800	250	8,950	275	7,300	300	5,150	300	4,100	275	9,000	375
Agricultural engineering	1,650	100	150	25	300	50	200	50	200	50	250	50	600	75
Bioengineering and biomedical engineering	16,350	325	3,650	175	4,400	225	3,600	250	1,700	175	1,250	175	1,750	175
Engineering mechanics, physics, and science	4,300	200	450	75	650	75	600	125	700	100	450	75	1,450	150
Industrial and manufacturing engineering	9,150	300	1,650	150	1,800	175	1,350	150	1,350	175	900	175	2,100	200
Nuclear engineering	3,400	150	500	50	500	50	550	75	250	50	350	50	1,200	125
Engineering, other	7,500	225	1,400	125	1,350	125	1,050	125	950	150	900	125	1,900	175
Health	44,000	600	9,500	300	10,050	350	7,100	350	5,950	350	4,550	350	6,850	350
Communication disorders sciences and services	2,950	150	400	50	400	75	500	75	500	75	400	75	800	100
Hospital and medical administration services	1,300	75	100	25	250	50	300	50	250	50	100	25	300	50
Pharmacy, pharmaceutical sciences, and administration	8,550	250	1,450	125	1,400	175	1,200	175	1,250	175	1,050	175	2,250	225
Public health	10,400	250	2,900	150	3,200	175	1,500	125	1,150	150	850	125	850	125
Registered nursing, nursing administration, nursing research	9,100	325	1,950	150	2,300	200	1,750	175	1,200	150	900	150	1,050	150
Health sciences, other	11,650	325	2,700	150	2,500	150	1,900	150	1,650	200	1,250	200	1,600	200

D = suppressed to avoid disclosure of confidential information.

SE = standard error.

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. 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.