TABLE 11-1

U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and years since doctorate: 2021

(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	872,100	2,425	141,750	600	159,000	975	137,450	875	108,850	825	104,600	950	220,400	1,675
Science	647,300	2,000	99,900	775	114,100	1,025	99,600	925	82,250	925	78,500	1,000	172,950	1,525
Biological, agricultural, and environmental life sciences	226,850	1,275	36,150	575	41,900	600	38,200	775	28,700	700	26,900	700	55,000	1,025
Agricultural and food sciences	16,600	350	2,100	125	2,350	150	2,350	200	1,950	175	2,200	200	5,700	325
Agricultural sciences	900	75	200	25	100	25	50	25	150	25	50	25	300	50
Animal sciences	4,650	200	450	75	750	75	650	125	600	100	550	150	1,650	175
Food sciences and technology	3,300	200	500	75	500	75	550	100	350	75	550	100	900	150
Plant sciences	5,800	250	750	100	750	75	750	100	650	125	750	150	2,100	200
Soil sciences	2,000	150	200	50	250	50	300	75	200	50	300	50	750	125
Biochemistry and biophysics	29,550	600	4,200	250	4,300	275	4,850	350	3,850	275	3,750	325	8,650	425
Biochemistry	24,350	550	3,300	225	3,500	275	4,000	300	3,050	250	3,150	325	7,350	400
Biophysics	5,200	200	900	100	850	100	850	150	800	150	600	125	1,250	150
Cell, cellular biology, and molecular biology	32,300	450	3,850	225	5,300	275	5,550	350	4,900	375	4,750	350	7,950	425
Microbiological sciences and immunology	24,750	425	3,700	225	5,050	225	4,350	300	3,200	300	3,100	325	5,400	425
Immunology	9,150	225	1,550	125	2,100	150	1,650	150	1,150	175	1,000	200	1,750	225
Microbiological sciences	15,650	350	2,150	175	2,950	175	2,750	275	2,050	250	2,100	250	3,700	300
Natural resources and conservation	9,000	225	1,600	125	1,850	125	1,500	100	1,300	125	1,100	150	1,650	175
Fish, fisheries, wildlife, and wildlands science and management	2,000	125	200	50	350	50	300	50	300	50	250	50	600	100
Forestry	2,550	150	350	50	300	50	500	75	400	75	400	75	650	100
Natural resource conservation, research, management, and policy	4,400	175	1,000	100	1,200	100	700	100	600	125	450	125	450	125
Zoology	6,850	250	800	75	750	75	900	125	800	125	850	125	2,800	250
Other biological sciences	107,800	850	20,000	450	22,300	475	18,750	600	12,750	425	11,150	500	22,850	650
Biomathematics, bioinformatics, and computational biology	6,200	150	2,150	125	1,800	125	1,000	125	400	100	350	125	500	100
Botany and plant biology	6,150	250	650	75	750	100	1,050	175	700	100	700	100	2,250	175
Epidemiology, ecology, and population biology	16,950	350	3,400	200	4,100	225	3,500	300	2,200	200	1,800	225	1,950	225
Genetics	8,750	225	1,400	125	1,850	125	1,600	175	1,050	150	1,050	150	1,800	175
Neurobiology and neuroscience	18,850	300	4,500	225	4,600	225	3,950	275	2,450	225	1,500	200	1,950	200
Nutrition sciences	4,100	150	650	75	800	75	800	125	550	100	400	75	950	125

TABLE 11-1

U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and years since doctorate: 2021

(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
Pharmacology and toxicology	13,100	300	1,400	150	1,800	175	2,250	275	1,450	175	1,900	225	4,300	300
Physiology, pathology, and related sciences	15,350	300	2,100	175	3,400	175	2,100	200	1,650	200	1,250	175	4,850	300
Biological and biomedical sciences, general	13,650	325	3,150	225	2,750	225	1,950	225	1,600	175	1,500	225	2,750	225
Biological and biomedical sciences, other	4,700	225	700	75	400	75	450	100	700	100	800	125	1,650	200
Computer and information sciences	33,600	425	6,600	275	8,250	350	6,400	350	3,800	300	3,200	275	5,300	325
Computer science	29,100	400	5,350	275	6,950	325	5,600	350	3,300	275	2,950	250	5,000	325
Information science, studies	2,500	125	450	50	700	75	450	75	300	100	250	50	350	75
Computer and information sciences, other	2,000	100	850	75	600	75	350	75	250	75	D	D	D	D
Mathematics and statistics	36,600	575	6,150	325	6,800	350	6,100	350	4,400	350	3,800	275	9,350	425
Applied mathematics	7,850	300	1,500	150	1,600	200	1,500	200	900	150	900	175	1,500	175
Mathematics	16,850	400	2,850	250	2,850	225	2,500	200	1,600	175	1,700	175	5,350	300
Statistics	7,450	325	1,300	150	1,500	200	1,350	225	1,200	225	650	150	1,450	225
Mathematics and statistics, other	4,450	150	550	75	850	75	750	125	650	125	600	100	1,050	125
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	137,050	1,025	22,050	525	21,350	525	18,900	525	16,200	500	16,850	525	41,700	875
Astronomy and astrophysics	6,350	175	1,200	100	1,200	100	900	100	700	125	750	100	1,600	175
Chemistry, except biochemistry	66,350	800	9,950	400	9,850	400	9,150	425	8,550	425	8,000	375	20,800	650
Inorganic chemistry	8,500	275	1,200	125	1,250	125	1,200	175	1,250	200	1,150	150	2,400	225
Organic chemistry	17,650	400	2,150	200	2,500	200	2,300	175	2,350	275	2,250	300	6,050	400
Chemistry, other, except biochemistry	40,200	625	6,650	325	6,100	350	5,650	325	4,950	325	4,600	300	12,300	475
Geosciences, atmospheric sciences, and ocean sciences	22,050	325	4,000	175	3,800	175	3,100	175	2,500	150	2,450	150	6,200	300
Atmospheric sciences and meteorology	4,150	100	750	75	850	75	650	75	500	75	500	50	900	75
Geological and earth sciences, geosciences	13,550	300	2,350	150	2,150	150	1,800	150	1,550	150	1,500	125	4,150	250
Ocean sciences and marine sciences	2,400	75	600	50	550	50	350	75	250	50	200	50	450	50
Oceanography, chemical and physical	2,000	125	250	50	250	50	300	50	200	50	300	50	700	100
Physics	42,300	675	6,900	350	6,500	400	5,700	400	4,400	375	5,650	425	13,100	525
Psychology	113,500	825	13,550	400	17,150	425	15,300	525	15,050	600	15,300	625	37,150	800

TABLE 11-1

U.S. residing employed doctoral scientists and engineers, by fine field of doctorate and years since doctorate: 2021

(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
Clinical psychology	40,650	600	4,450	275	5,450	325	4,700	350	5,150	350	5,500	425	15,400	575
Counseling and applied psychology	14,600	300	1,600	150	2,300	150	2,050	250	2,100	225	2,350	275	4,250	300
Educational and school psychology	13,300	325	1,850	175	1,900	175	2,200	200	1,950	225	1,550	200	3,900	275
Industrial and organizational psychology	4,950	175	700	100	1,000	100	750	100	600	100	750	150	1,200	175
Research and experimental psychology	27,700	425	3,500	200	4,700	200	4,100	225	3,850	250	3,400	225	8,150	400
Psychology, general	7,600	275	800	125	1,000	150	950	175	800	175	1,050	175	2,950	250
Psychology, other	4,700	150	700	75	850	100	550	75	650	125	700	150	1,300	150
Social sciences	99,700	1,000	15,350	475	18,700	525	14,750	600	14,050	525	12,400	475	24,400	700
Economics	27,300	550	3,900	250	4,500	300	3,750	325	3,400	300	3,100	275	8,650	425
Political science and government	20,500	550	3,100	225	4,150	275	2,800	275	3,200	325	2,750	300	4,450	325
Political science and government	16,150	550	2,250	200	2,850	250	2,050	250	2,750	300	2,400	300	3,900	300
Public policy analysis	4,300	150	850	100	1,300	125	750	125	450	100	350	75	550	100
Sociology, demography, and population studies	15,650	375	2,300	175	2,650	200	2,800	225	2,300	225	2,000	200	3,600	300
Other social sciences	36,300	575	6,050	250	7,350	300	5,400	300	5,150	350	4,600	325	7,700	375
Anthropology	10,900	275	1,250	125	2,150	175	1,600	175	2,000	250	1,650	200	2,200	200
Area, ethnic, cultural, gender, and group studies	4,050	150	900	100	1,000	100	650	100	350	75	300	75	800	125
Geography and cartography	4,400	225	850	75	950	125	750	125	500	100	550	100	750	125
International relations and national security studies	2,150	125	350	50	400	75	300	50	250	50	300	75	550	100
Linguistics	4,500	250	750	100	950	150	800	175	600	125	500	125	900	150
Urban studies, affairs	1,200	100	100	25	150	25	150	50	200	50	250	75	350	75
Social sciences, other	9,150	275	1,800	125	1,750	125	1,150	150	1,200	125	1,050	125	2,200	175
Engineering	183,100	1,325	32,750	575	35,750	725	30,800	825	21,000	750	22,300	675	40,550	900
Aerospace, aeronautical, and astronautical engineering	7,150	250	1,250	125	1,450	150	950	125	650	100	1,150	200	1,650	175
Chemical engineering	21,650	500	3,600	225	3,750	275	3,800	325	2,650	275	2,600	225	5,250	400
Civil engineering	19,750	575	3,750	225	3,950	225	3,150	300	1,950	250	2,400	275	4,550	375
Electrical and computer engineering	50,400	650	7,950	350	9,450	400	8,950	475	6,450	400	6,300	375	11,350	525
Computer engineering	7,150	275	1,550	125	1,400	150	1,450	175	600	100	800	125	1,300	175
Electrical, electronics, and communications engineering	43,250	600	6,400	325	8,050	350	7,450	450	5,850	375	5,500	375	10,050	500

TABLE 11-1

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(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
Mechanical engineering	27,500	450	5,150	250	5,750	350	4,400	350	3,200	350	3,600	375	5,400	375
Metallurgical and materials engineering	17,450	400	3,250	225	3,100	250	2,900	275	1,950	250	2,150	250	4,100	300
Other engineering	39,250	525	7,850	250	8,250	325	6,650	325	4,200	275	4,100	275	8,200	375
Agricultural engineering	1,700	100	150	25	300	50	300	75	150	50	200	50	600	75
Bioengineering and biomedical engineering	14,900	275	3,850	200	4,150	200	3,200	250	1,150	175	1,050	175	1,500	175
Engineering mechanics, physics, and science	3,900	200	450	75	550	75	450	100	500	75	650	100	1,300	150
Industrial and manufacturing engineering	8,700	325	1,400	150	1,600	175	1,400	150	1,250	200	850	125	2,150	225
Nuclear engineering	3,100	125	600	75	450	50	350	75	200	50	400	75	1,050	125
Engineering, other	6,900	250	1,350	125	1,200	125	900	150	900	125	900	125	1,600	175
Health	41,650	525	9,100	275	9,150	375	7,050	375	5,600	300	3,850	300	6,950	325
Communication disorders sciences and services	3,100	125	400	50	450	75	500	75	500	75	250	75	1,000	100
Hospital and medical administration services	1,300	100	100	50	300	50	300	50	200	50	150	25	250	50
Pharmacy, pharmaceutical sciences, and administration	7,850	250	1,350	125	1,450	175	1,050	200	1,050	150	950	150	2,000	200
Public health	9,400	225	3,100	150	2,250	150	1,550	175	950	125	600	125	950	150
Registered nursing, nursing administration, nursing research	8,550	375	1,700	150	2,150	200	1,600	200	1,200	150	850	150	1,000	175
Health sciences, other	11,500	275	2,450	150	2,500	175	2,050	225	1,700	200	1,050	150	1,700	175

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 2021.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2021.