TABLE 1-1

U.S. residing doctoral scientists and engineers, by fine field of doctorate and employment status: 2021

(Number and SE)

Field of study	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	1,023,650	1,925	872,100	2,425	779,600	2,425	92,500	1,375	16,650	775	114,750	1,525	20,150	800
Science	767,500	1,675	647,300	2,000	571,050	2,075	76,250	1,225	11,850	675	91,750	1,400	16,600	725
Biological, agricultural, and environmental life sciences	265,700	1,050	226,850	1,275	208,550	1,325	18,300	675	3,800	325	29,050	750	6,000	425
Agricultural and food sciences	21,050	350	16,600	350	15,150	375	1,450	200	450	100	3,650	325	350	75
Agricultural sciences	1,300	75	900	75	750	75	150	50	*	*	350	50	50	25
Animal sciences	5,500	175	4,650	200	4,300	200	300	75	S	S	750	150	50	25
Food sciences and technology	4,100	175	3,300	200	3,000	175	300	125	100	50	600	125	100	50
Plant sciences	7,450	225	5,800	250	5,300	250	500	100	150	50	1,400	200	100	50
Soil sciences	2,700	125	2,000	150	1,800	125	200	75	50	25	600	150	50	50
Biochemistry and biophysics	35,250	450	29,550	600	27,050	600	2,500	250	350	150	4,300	400	1,100	225
Biochemistry	29,250	425	24,350	550	22,150	550	2,150	250	300	125	3,850	375	750	200
Biophysics	6,000	150	5,200	200	4,900	200	300	75	D	D	450	100	350	125
Cell, cellular biology, and molecular biology	36,000	350	32,300	450	30,050	525	2,250	325	500	150	2,500	300	700	150
Microbiological sciences and immunology	28,750	300	24,750	425	23,150	450	1,650	225	400	125	2,900	275	650	150
Immunology	10,400	200	9,150	225	8,600	250	500	125	150	75	900	175	200	100
Microbiological sciences	18,350	250	15,650	350	14,500	350	1,100	200	250	100	2,050	250	450	100
Natural resources and conservation	11,150	225	9,000	225	7,950	250	1,050	150	200	50	1,750	175	200	75
Fish, fisheries, wildlife, and wildlands science and management	2,700	100	2,000	125	1,750	100	250	75	S	S	550	125	S	S
Forestry	3,300	125	2,550	150	2,200	125	400	100	50	25	650	150	50	25
Natural resource conservation, research, management, and policy	5,150	150	4,400	175	4,000	175	400	75	100	50	550	100	100	50
Zoology	9,100	200	6,850	250	6,150	225	750	125	200	75	1,900	175	150	75
Other biological sciences	124,400	675	107,800	850	99,100	850	8,700	350	1,750	200	12,000	525	2,800	275
Biomathematics, bioinformatics, and computational biology	6,600	125	6,200	150	5,850	175	350	125	*	*	300	75	100	50
Botany and plant biology	8,400	225	6,150	250	5,400	225	700	125	200	75	1,900	175	200	50

TABLE 1-1

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(Number and SE)

Field of study	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Epidemiology, ecology, and population biology	19,400	325	16,950	350	15,700	350	1,250	175	300	100	1,800	225	400	100
Genetics	10,100	200	8,750	225	8,250	225	550	100	150	75	1,000	175	200	75
Neurobiology and neuroscience	20,000	225	18,850	300	18,150	300	750	150	300	100	500	150	350	100
Nutrition sciences	4,850	150	4,100	150	3,550	175	500	100	100	50	600	100	100	50
Pharmacology and toxicology	15,050	175	13,100	300	12,000	325	1,100	175	100	50	1,550	225	300	125
Physiology, pathology, and related sciences	18,350	225	15,350	300	13,550	325	1,800	200	350	100	2,200	225	450	125
Biological and biomedical sciences, general	15,650	225	13,650	325	12,450	350	1,200	200	150	75	1,300	175	500	150
Biological and biomedical sciences, other	5,900	200	4,700	225	4,150	250	550	125	100	50	850	150	S	S
Computer and information sciences	36,650	400	33,600	425	31,650	475	1,950	250	400	100	2,100	200	550	150
Computer science	31,450	375	29,100	400	27,550	450	1,550	250	350	100	1,550	175	450	150
Information science, studies	3,050	125	2,500	125	2,150	125	300	75	50	25	450	75	50	25
Computer and information sciences, other	2,150	100	2,000	100	1,900	100	100	25	*	*	50	25	50	25
Mathematics and statistics	42,950	525	36,600	575	33,850	575	2,750	250	450	100	4,750	325	1,150	225
Applied mathematics	8,950	250	7,850	300	7,300	300	550	125	D	D	700	125	300	100
Mathematics	20,650	375	16,850	400	15,450	375	1,400	200	350	100	2,900	250	550	175
Statistics	8,400	300	7,450	325	6,950	325	500	100	D	D	750	150	150	75
Mathematics and statistics, other	4,950	125	4,450	150	4,150	150	300	75	50	25	350	75	S	S
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	163,600	875	137,050	1,025	125,600	1,075	11,450	525	3,150	350	20,750	725	2,750	300
Astronomy and astrophysics	7,250	125	6,350	175	5,850	175	500	75	100	50	750	125	100	50
Chemistry, except biochemistry	80,500	650	66,350	800	61,100	775	5,250	375	1,800	300	10,750	525	1,600	225
Inorganic chemistry	10,500	175	8,500	275	7,650	275	850	150	250	125	1,500	175	300	125
Organic chemistry	21,750	350	17,650	400	16,300	400	1,350	200	200	75	3,400	300	550	125
Chemistry, other, except biochemistry	48,250	475	40,200	625	37,150	650	3,050	275	1,350	250	5,900	400	750	150
Geosciences, atmospheric sciences, and ocean sciences	26,950	275	22,050	325	19,750	325	2,350	200	600	125	3,800	225	450	75

TABLE 1-1

U.S. residing doctoral scientists and engineers, by fine field of doctorate and employment status: 2021

(Number and SE)

Field of study	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Atmospheric sciences and meteorology	4,750	100	4,150	100	3,800	100	350	75	50	25	500	75	50	25
Geological and earth sciences, geosciences	16,950	250	13,550	300	12,050	300	1,450	150	400	100	2,700	200	300	75
Ocean sciences and marine sciences	2,750	75	2,400	75	2,200	75	200	50	50	25	250	50	50	25
Oceanography, chemical and physical	2,450	125	2,000	125	1,650	100	350	75	100	50	350	75	D	D
Physics	48,900	650	42,300	675	38,900	700	3,350	325	600	125	5,400	425	600	150
Psychology	137,550	550	113,500	825	84,500	1,000	29,000	825	1,550	200	18,450	675	4,050	450
Clinical psychology	47,450	350	40,650	600	28,050	725	12,550	575	300	125	5,100	450	1,450	275
Counseling and applied psychology	16,900	200	14,600	300	10,250	400	4,350	350	150	75	1,600	225	550	175
Educational and school psychology	17,700	250	13,300	325	9,250	350	4,050	325	350	125	3,500	250	600	175
Industrial and organizational psychology	5,800	175	4,950	175	4,150	175	800	125	100	50	650	100	100	50
Research and experimental psychology	34,700	250	27,700	425	23,100	475	4,600	350	450	100	5,400	325	1,100	200
Psychology, general	9,150	225	7,600	275	5,950	300	1,600	200	150	75	1,250	175	150	75
Psychology, other	5,900	125	4,700	150	3,650	175	1,050	150	100	50	1,000	125	100	50
Social sciences	121,000	950	99,700	1,000	86,900	875	12,750	625	2,500	300	16,650	575	2,200	275
Economics	32,250	550	27,300	550	24,200	550	3,100	300	400	100	4,050	350	550	175
Political science and government	24,050	550	20,500	550	18,550	525	1,900	225	550	150	2,500	300	500	150
Political science and government	18,950	550	16,150	550	14,750	525	1,450	200	450	150	2,000	275	350	125
Public policy analysis	5,100	100	4,300	150	3,800	175	500	100	100	50	500	100	150	75
Sociology, demography, and population studies	19,400	325	15,650	375	13,450	375	2,150	250	400	125	3,200	250	200	75
Other social sciences	45,300	525	36,300	575	30,700	525	5,600	300	1,150	200	6,900	350	950	150
Anthropology	14,000	250	10,900	275	9,050	325	1,850	200	350	125	2,500	225	250	75
Area, ethnic, cultural, gender, and group studies	4,900	125	4,050	150	3,300	150	750	100	100	50	650	100	100	50
Geography and cartography	5,300	225	4,400	225	3,950	200	400	75	S	S	600	100	150	50
International relations and national security studies	2,600	125	2,150	125	1,700	125	400	100	50	25	350	75	50	50
Linguistics	5,550	250	4,500	250	3,900	225	650	125	100	50	750	150	200	100

TABLE 1-1

U.S. residing doctoral scientists and engineers, by fine field of doctorate and employment status: 2021

(Number and SE)

Field of study	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Urban studies, affairs	1,600	125	1,200	100	1,000	100	200	50	50	25	350	75	*	*
Social sciences, other	11,400	275	9,150	275	7,800	250	1,350	125	300	75	1,750	175	200	75
Engineering	206,100	1,150	183,100	1,325	172,500	1,275	10,600	600	3,800	375	16,550	700	2,650	275
Aerospace, aeronautical, and astronautical engineering	7,850	250	7,150	250	6,900	250	250	75	100	75	550	100	50	25
Chemical engineering	24,850	425	21,650	500	20,400	475	1,250	250	550	125	2,350	300	300	100
Civil engineering	21,800	550	19,750	575	18,250	550	1,500	250	300	100	1,450	225	300	125
Electrical and computer engineering	55,900	575	50,400	650	47,900	675	2,550	300	900	200	4,100	375	500	125
Computer engineering	7,850	250	7,150	275	6,850	250	300	75	300	150	350	125	S	S
Electrical, electronics, and communications engineering	48,000	525	43,250	600	41,000	625	2,250	300	650	150	3,750	325	400	125
Mechanical engineering	30,550	425	27,500	450	26,400	500	1,100	175	500	150	2,050	250	500	175
Metallurgical and materials engineering	19,750	375	17,450	400	16,500	400	950	150	400	125	1,600	200	350	100
Other engineering	45,350	450	39,250	525	36,200	550	3,050	250	1,000	175	4,450	275	650	100
Agricultural engineering	2,050	100	1,700	100	1,500	100	150	50	50	25	350	50	D	D
Bioengineering and biomedical engineering	16,050	250	14,900	275	14,100	300	850	150	350	125	550	125	250	75
Engineering mechanics, physics, and science	4,900	175	3,900	200	3,600	200	300	75	100	50	800	125	100	50
Industrial and manufacturing engineering	10,450	300	8,700	325	7,850	325	900	125	200	100	1,400	175	150	75
Nuclear engineering	3,550	125	3,100	125	2,850	125	250	50	100	50	400	75	D	D
Engineering, other	8,350	225	6,900	250	6,300	250	600	150	300	75	1,000	150	150	50
Health	50,050	450	41,650	525	36,000	550	5,650	350	1,000	175	6,500	350	900	150
Communication disorders sciences and services	3,900	125	3,100	125	2,300	150	800	100	S	S	650	100	100	50
Hospital and medical administration services	1,750	75	1,300	100	1,100	75	200	50	*	*	400	100	D	D
Pharmacy, pharmaceutical sciences, and administration	9,000	250	7,850	250	6,800	250	1,050	175	150	75	850	175	200	75
Public health	10,700	200	9,400	225	8,450	250	950	175	350	125	750	150	200	75
Registered nursing, nursing administration, nursing research	11,450	275	8,550	375	7,150	325	1,400	200	150	75	2,500	250	200	125

TABLE 1-1

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(Number and SE)

Field of study	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Health sciences, other	13,200	200	11,500	275	10,150	275	1,300	175	250	125	1,300	175	150	75

* = 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.

[a] Unemployed includes individuals who were not working during the survey reference week but had been seeking work in the prior 4 weeks or who were on layoff from their job.

[b] Not employed or not seeking work includes individuals who were not working during the survey reference week and had not been seeking work in the prior 4 weeks because of family responsibilities, chronic illness, or other reasons.

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. Designation of full-time and part-time employment status is based on principal job only, not on all jobs held in labor force. For example, an individual could work part time in his or her principal job but full time in the labor force. Full time is based on working 35 or more hours per week. 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.