

TABLE 10

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

(Number and SE)

Field of study	All employed		Under 35		35–39		40–44		45–49		50–54		55–59		60–64		65–75	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	872,100	2,425	99,200	925	130,150	1,225	127,550	1,400	111,200	1,250	104,550	1,225	98,950	1,375	86,450	1,375	114,100	1,575
Science	647,300	2,000	68,800	850	93,700	1,175	94,150	1,200	83,450	1,050	78,150	1,150	72,950	1,100	64,300	1,175	91,850	1,350
Biological, agricultural, and environmental life sciences	226,850	1,275	25,650	550	37,050	775	35,600	800	30,850	750	26,050	650	24,550	625	21,250	725	25,900	775
Agricultural and food sciences	16,600	350	1,450	125	1,600	125	2,000	175	1,950	175	1,600	150	2,800	225	2,400	200	2,850	275
Agricultural sciences	900	75	100	25	100	25	100	25	50	25	50	25	100	25	150	50	200	50
Animal sciences	4,650	200	400	75	450	75	650	125	550	100	450	100	950	175	650	100	550	100
Food sciences and technology	3,300	200	350	75	350	75	500	100	400	100	400	75	450	75	300	75	550	150
Plant sciences	5,800	250	450	75	550	100	500	100	700	100	500	75	1,000	150	1,000	175	1,050	150
Soil sciences	2,000	150	100	25	150	50	250	50	250	50	200	50	250	50	300	75	500	150
Biochemistry and biophysics	29,550	600	3,400	250	4,050	250	4,750	325	4,000	325	3,700	300	3,500	275	2,900	300	3,250	275
Biochemistry	24,350	550	2,700	225	3,100	250	4,000	325	3,250	275	3,050	275	3,050	250	2,450	275	2,750	275
Biophysics	5,200	200	700	100	900	125	700	100	750	125	650	100	450	75	450	75	500	100
Cell, cellular biology, and molecular biology	32,300	450	3,150	250	4,650	250	5,800	350	4,150	275	4,750	350	3,800	325	3,200	300	2,800	250
Microbiological sciences and immunology	24,750	425	2,900	200	4,700	200	4,350	275	3,300	325	2,900	300	2,550	225	2,050	225	2,050	275
Immunology	9,150	225	1,150	125	1,900	150	1,850	150	1,150	150	1,050	175	800	125	650	150	600	150
Microbiological sciences	15,650	350	1,750	150	2,800	200	2,500	225	2,150	275	1,900	225	1,750	200	1,400	175	1,400	225
Natural resources and conservation	9,000	225	600	100	1,200	100	1,450	125	1,300	100	1,200	125	1,250	125	900	125	1,100	125
Fish, fisheries, wildlife, and wildlands science and management	2,000	125	50	25	200	50	300	50	250	50	250	50	300	50	200	50	400	75
Forestry	2,550	150	200	50	200	50	350	50	350	50	350	50	400	50	350	50	400	100
Natural resource conservation, research, management, and policy	4,400	175	350	75	800	100	800	100	700	100	600	100	550	125	350	100	250	75
Zoology	6,850	250	400	75	600	75	600	100	950	150	800	100	700	100	1,200	150	1,650	200
Other biological sciences	107,800	850	13,750	425	20,250	550	16,700	500	15,250	575	11,150	450	9,950	400	8,600	375	12,200	550
Biomathematics, bioinformatics, and computational biology	6,200	150	1,550	125	1,650	150	850	75	650	75	400	75	500	100	250	75	350	100
Botany and plant biology	6,150	250	450	75	500	100	650	100	1,000	175	750	100	700	100	850	100	1,250	150
Epidemiology, ecology, and population biology	16,950	350	1,800	175	3,250	225	3,300	250	2,800	250	1,700	200	1,450	175	1,250	150	1,350	175
Genetics	8,750	225	1,150	125	1,750	150	1,500	175	1,050	125	1,100	175	950	125	600	100	700	150
Neurobiology and neuroscience	18,850	300	3,300	250	4,700	275	3,800	325	2,800	250	1,800	225	1,150	125	700	125	600	125
Nutrition sciences	4,100	150	400	75	550	100	650	100	650	100	400	75	450	75	400	75	600	100
Pharmacology and toxicology	13,100	300	1,050	150	1,650	175	1,850	200	1,600	200	1,750	175	1,600	200	1,400	150	2,250	275
Physiology, pathology, and related sciences	15,350	300	1,500	150	2,950	175	2,050	150	1,900	250	1,150	150	1,450	175	1,450	150	2,900	225
Biological and biomedical sciences, general	13,650	325	2,150	200	2,800	225	1,750	200	2,050	225	1,250	150	1,100	150	1,250	200	1,300	175
Biological and biomedical sciences, other	4,700	225	350	75	400	75	350	75	700	100	850	125	600	125	500	125	900	150
Computer and information sciences	33,600	425	3,650	250	6,500	350	6,350	350	5,250	325	3,600	225	3,100	225	3,050	250	2,150	225
Computer science	29,100	400	3,100	250	5,750	350	5,650	325	4,550	325	3,100	225	2,700	225	2,550	250	1,700	225
Information science, studies	2,500	125	150	50	300	50	250	50	450	75	350	100	250	50	400	100	300	50

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	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Computer and information sciences, other	2,000	100	400	50	450	75	450	75	250	50	150	25	100	25	100	25	100	25
Mathematics and statistics	36,600	575	5,150	325	6,250	375	5,250	375	4,650	275	4,050	275	4,100	275	3,200	275	4,000	300
Applied mathematics	7,850	300	1,200	150	1,550	175	1,300	175	1,050	175	750	125	750	100	500	125	750	150
Mathematics	16,850	400	2,550	225	2,650	250	2,150	200	1,850	200	1,850	200	2,250	200	1,550	150	2,050	225
Statistics	7,450	325	1,050	175	1,350	175	1,200	225	1,050	175	900	150	550	125	500	175	800	150
Mathematics and statistics, other	4,450	150	350	50	750	125	550	75	650	100	500	100	550	75	650	100	450	75
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	137,050	1,025	19,850	525	18,100	525	19,200	625	15,700	550	16,050	550	16,750	575	14,300	600	17,050	600
Astronomy and astrophysics	6,350	175	1,300	100	900	75	1,000	100	700	100	650	100	550	100	550	125	650	125
Chemistry, except biochemistry	66,350	800	9,950	400	8,500	400	9,050	475	8,250	400	8,200	425	8,250	425	6,450	375	7,700	500
Inorganic chemistry	8,500	275	1,350	125	1,150	125	1,500	200	950	150	1,150	150	800	100	900	100	650	150
Organic chemistry	17,650	400	1,900	200	2,450	225	2,300	200	2,200	250	2,450	275	2,100	250	1,950	225	2,300	275
Chemistry, other, except biochemistry	40,200	625	6,700	350	4,900	325	5,200	325	5,100	325	4,550	300	5,400	325	3,600	300	4,750	350
Geosciences, atmospheric sciences, and ocean sciences	22,050	325	2,700	150	3,200	150	3,050	175	2,450	175	2,100	125	2,500	150	3,050	225	2,950	225
Atmospheric sciences and meteorology	4,150	100	600	75	800	75	600	75	400	50	500	50	500	50	350	50	400	50
Geological and earth sciences, geosciences	13,550	300	1,600	150	1,800	150	1,800	150	1,500	150	1,200	125	1,600	125	2,150	200	2,000	200
Ocean sciences and marine sciences	2,400	75	350	50	450	50	400	75	300	50	200	50	200	50	250	50	150	50
Oceanography, chemical and physical	2,000	125	150	50	200	50	250	50	200	50	250	50	200	50	300	50	450	75
Physics	42,300	675	5,900	350	5,450	300	6,100	400	4,350	350	5,100	425	5,400	375	4,200	300	5,750	400
Psychology	113,500	825	7,850	350	13,000	450	13,600	525	13,700	575	13,850	500	12,800	475	12,000	475	26,700	775
Clinical psychology	40,650	600	2,400	250	4,800	350	4,350	325	4,800	325	4,450	350	4,900	300	4,950	325	9,950	500
Counseling and applied psychology	14,600	300	850	125	1,200	125	1,800	175	1,750	225	1,850	225	1,650	250	1,500	200	4,000	275
Educational and school psychology	13,300	325	800	125	1,100	125	1,650	175	1,700	200	1,750	200	1,300	175	1,300	175	3,650	300
Industrial and organizational psychology	4,950	175	500	100	700	100	600	100	600	100	800	125	500	75	550	125	750	125
Research and experimental psychology	27,700	425	2,450	175	3,850	225	3,900	200	3,550	225	3,550	200	2,650	175	2,400	200	5,350	325
Psychology, general	7,600	275	450	125	850	150	800	150	600	125	800	125	1,250	200	850	150	1,950	250
Psychology, other	4,700	150	400	75	500	75	550	100	650	125	600	125	550	125	500	100	1,000	125
Social sciences	99,700	1,000	6,700	325	12,850	500	14,150	425	13,300	525	14,500	500	11,650	475	10,450	425	16,100	575
Economics	27,300	550	2,550	225	3,850	300	4,050	300	2,900	275	3,450	300	3,250	250	3,150	300	4,100	325
Political science and government	20,500	550	1,500	150	2,550	250	2,600	275	2,750	275	3,650	300	2,700	250	2,000	200	2,800	275
Political science and government	16,150	550	1,200	150	2,000	275	1,900	250	2,150	275	3,000	275	2,300	250	1,600	175	2,050	250
Public policy analysis	4,300	150	250	75	550	75	650	100	600	100	650	125	400	75	400	75	750	125
Sociology, demography, and population studies	15,650	375	750	100	1,900	175	2,550	200	2,150	225	2,350	175	1,700	200	1,500	175	2,750	275
Other social sciences	36,300	575	1,950	175	4,550	225	4,950	250	5,500	325	5,100	275	4,000	225	3,800	250	6,450	325
Anthropology	10,900	275	300	75	1,150	175	1,550	150	1,450	150	1,900	175	1,100	150	1,100	125	2,300	200
Area, ethnic, cultural, gender, and group studies	4,050	150	200	50	650	100	600	100	650	75	400	75	400	100	500	100	600	100

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Geography and cartography	4,400	225	300	75	650	100	600	75	850	150	450	75	500	75	400	75	650	100
International relations and national security studies	2,150	125	50	25	150	50	400	50	300	75	300	50	300	75	300	75	300	75
Linguistics	4,500	250	350	100	750	125	400	75	1,000	200	600	125	450	75	300	50	700	125
Urban studies, affairs	1,200	100	50	25	50	25	100	25	100	25	150	50	200	50	200	50	350	50
Social sciences, other	9,150	275	600	125	1,100	100	1,300	125	1,200	100	1,250	125	1,100	125	1,050	150	1,550	150
Engineering	183,100	1,325	26,400	575	31,200	700	27,750	675	22,500	700	21,300	700	21,450	725	17,350	600	15,200	675
Aerospace, aeronautical, and astronautical engineering	7,150	250	1,200	125	1,250	150	900	150	650	100	1,150	175	750	125	650	125	600	150
Chemical engineering	21,650	500	3,600	200	3,450	275	3,650	275	2,750	300	2,400	250	2,600	300	1,700	225	1,550	250
Civil engineering	19,750	575	2,500	200	3,100	275	2,750	225	2,450	250	1,650	200	2,750	225	2,400	250	2,150	250
Electrical and computer engineering	50,400	650	5,500	325	8,500	400	8,400	425	6,750	400	6,800	375	6,200	375	4,500	325	3,800	350
Computer engineering	7,150	275	1,000	150	1,300	125	1,350	175	800	100	850	125	750	100	550	125	500	125
Electrical, electronics, and communications engineering	43,250	600	4,450	275	7,200	375	7,050	400	5,900	375	5,900	350	5,450	350	3,950	300	3,350	325
Mechanical engineering	27,500	450	4,250	250	4,800	325	4,150	350	3,450	350	3,050	275	3,200	325	2,850	300	1,750	250
Metallurgical and materials engineering	17,450	400	3,200	250	2,800	225	2,050	200	2,100	225	2,150	275	2,050	225	1,600	200	1,450	200
Other engineering	39,250	525	6,200	275	7,300	325	5,800	300	4,350	225	4,150	275	3,900	225	3,600	275	3,950	275
Agricultural engineering	1,700	100	100	25	150	50	250	50	150	25	200	25	300	50	300	50	250	50
Bioengineering and biomedical engineering	14,900	275	3,650	225	3,550	225	3,050	225	1,500	175	1,350	175	750	150	550	125	550	150
Engineering mechanics, physics, and science	3,900	200	400	75	500	75	350	75	450	75	500	100	500	75	550	100	600	100
Industrial and manufacturing engineering	8,700	325	700	100	1,450	175	1,100	125	1,100	125	1,100	150	1,000	125	1,100	150	1,250	175
Nuclear engineering	3,100	125	500	75	450	75	300	50	250	50	300	75	450	75	400	75	500	75
Engineering, other	6,900	250	850	125	1,150	125	750	150	900	100	800	100	950	125	700	100	800	150
Health	41,650	525	4,000	225	5,250	275	5,650	325	5,300	350	5,100	300	4,600	275	4,800	325	7,000	400
Communication disorders sciences and services	3,100	125	150	25	250	50	350	75	500	100	400	75	300	50	250	75	900	100
Hospital and medical administration services	1,300	100	D	D	50	25	200	50	200	50	300	50	150	25	100	25	350	50
Pharmacy, pharmaceutical sciences, and administration	7,850	250	1,250	150	1,100	175	1,150	150	1,050	200	800	125	950	125	700	125	800	125
Public health	9,400	225	1,150	125	1,850	175	1,400	150	1,400	175	1,050	125	600	100	1,100	125	900	175
Registered nursing, nursing administration, nursing research	8,550	375	250	75	400	100	700	125	750	150	750	150	1,250	150	1,700	200	2,700	250
Health sciences, other	11,500	275	1,250	150	1,600	150	1,850	175	1,400	175	1,800	200	1,300	150	950	125	1,350	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.