

TABLE 10

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

(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	908,700	2,300	101,900	1,100	139,700	1,525	135,200	1,425	119,100	1,425	112,200	1,400	100,500	1,625	87,550	1,500	112,550	1,375
Science	667,950	2,050	69,000	900	99,400	1,200	98,850	1,300	88,400	1,300	85,750	1,175	74,100	1,275	64,300	1,225	88,150	1,275
Biological, agricultural, and environmental life sciences	235,050	1,175	25,400	500	38,000	700	36,600	875	33,150	900	29,650	775	24,500	775	21,150	650	26,600	750
Agricultural and food sciences	17,050	400	1,750	150	1,900	150	1,950	200	1,700	150	1,850	175	2,300	250	2,200	175	3,350	275
Agricultural sciences	900	75	50	25	100	25	100	25	100	25	100	25	100	25	100	50	200	50
Animal sciences	4,650	200	600	100	500	75	450	75	500	100	500	100	450	100	750	100	900	150
Food sciences and technology	3,600	200	400	50	400	75	350	75	300	75	400	100	650	175	500	100	600	150
Plant sciences	5,850	250	600	125	700	100	850	175	500	100	600	125	900	175	600	100	1,100	175
Soil sciences	2,050	100	150	25	200	50	200	50	300	50	250	50	200	50	250	50	550	125
Biochemistry and biophysics	29,700	475	2,750	200	4,600	275	4,100	300	4,050	325	4,000	375	3,700	350	3,050	300	3,500	250
Biochemistry	24,150	475	2,150	200	3,500	250	3,200	275	3,400	300	3,250	325	2,850	325	2,800	275	2,950	250
Biophysics	5,600	175	600	75	1,100	125	900	125	650	100	750	150	850	150	250	75	550	100
Cell, cellular biology, and molecular biology	32,400	525	2,650	200	4,500	325	5,650	325	4,750	375	5,050	400	3,900	375	2,950	350	2,950	275
Microbiological sciences and immunology	25,400	425	3,100	200	4,350	225	4,350	275	4,200	325	3,050	325	2,100	275	2,000	175	2,250	225
Immunology	9,800	225	1,200	150	1,700	150	1,950	175	1,850	225	1,050	175	650	150	550	100	850	150
Microbiological sciences	15,600	350	1,950	150	2,650	175	2,350	200	2,350	250	2,000	275	1,450	250	1,500	175	1,400	200
Natural resources and conservation	9,150	275	550	75	1,400	125	1,400	125	1,450	125	1,200	125	1,100	125	850	100	1,200	125
Fish, fisheries, wildlife, and wildlands science and management	1,950	100	50	25	250	50	250	50	300	50	250	50	350	75	250	50	300	75
Forestry	2,600	150	100	50	300	50	350	75	400	50	300	50	350	75	300	50	450	100
Natural resource conservation, research, management, and policy	4,600	200	400	75	850	100	800	100	750	100	650	100	450	75	300	75	450	100
Zoology	6,400	225	400	75	550	100	600	100	750	125	1,050	150	700	125	750	125	1,550	175
Other biological sciences	114,900	750	14,150	375	20,700	550	18,550	650	16,200	575	13,450	525	10,750	575	9,350	425	11,750	575
Biomathematics, bioinformatics, and computational biology	7,150	150	1,650	125	1,700	150	1,450	150	750	100	500	75	450	100	250	50	400	100
Botany and plant biology	6,300	225	500	100	650	75	700	150	800	125	750	125	750	175	1,050	150	1,050	125
Epidemiology, ecology, and population biology	18,600	325	1,900	150	3,100	225	3,650	200	2,900	250	2,400	200	1,700	250	1,500	200	1,400	175
Genetics	9,550	225	1,050	100	1,650	125	1,750	175	1,650	175	1,300	150	800	125	600	100	750	150
Neurobiology and neuroscience	20,300	350	3,450	175	4,700	275	3,800	300	2,900	250	2,650	275	1,350	200	800	150	650	125
Nutrition sciences	4,200	150	350	50	650	100	500	100	650	100	550	100	350	75	500	100	600	100
Pharmacology and toxicology	13,350	250	1,000	125	1,700	175	1,400	175	1,950	225	1,600	225	1,950	300	1,550	225	2,250	250
Physiology, pathology, and related sciences	15,600	325	1,450	150	2,900	200	2,650	225	1,900	250	1,350	225	1,600	225	1,250	175	2,550	250
Biological and biomedical sciences, general	14,950	325	2,200	175	3,150	275	2,350	225	2,150	225	1,450	175	1,100	175	1,400	200	1,150	200
Biological and biomedical sciences, other	4,900	200	550	100	500	75	350	75	550	100	900	125	700	125	400	100	900	150
Computer and information sciences	36,350	550	4,200	250	7,400	375	6,550	400	5,350	375	4,550	350	3,100	275	2,750	275	2,450	225
Computer science	31,050	525	3,600	225	6,350	350	5,700	375	4,700	350	3,850	325	2,650	275	2,250	250	1,900	225
Information science, studies	2,750	125	150	50	400	50	400	75	350	75	400	100	300	50	400	75	450	75

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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	2,550	75	450	50	650	50	450	50	350	75	300	50	150	25	150	50	100	25
Mathematics and statistics	38,500	600	5,250	250	6,800	325	5,600	350	5,000	350	4,300	325	3,800	250	3,950	275	3,800	300
Applied mathematics	9,150	225	1,350	150	1,750	150	1,600	200	1,050	150	950	150	700	125	800	150	900	125
Mathematics	17,100	450	2,400	200	2,950	250	2,650	225	2,050	200	1,900	225	1,750	175	1,850	200	1,600	175
Statistics	8,100	275	1,100	100	1,400	175	800	200	1,400	225	950	175	800	150	800	175	850	175
Mathematics and statistics, other	4,150	150	450	75	650	100	500	100	500	75	500	100	500	75	550	100	450	100
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	141,800	1,125	19,650	525	20,500	600	19,550	650	17,400	575	16,950	625	16,750	675	14,500	600	16,450	575
Astronomy and astrophysics	6,450	175	1,150	100	1,100	125	1,000	125	900	125	650	100	600	100	400	75	700	100
Chemistry, except biochemistry	69,150	850	10,550	425	9,200	400	9,250	475	8,900	450	8,750	500	8,050	425	6,850	425	7,600	450
Inorganic chemistry	8,800	250	1,250	125	1,300	125	1,150	125	800	125	1,200	150	1,150	125	1,000	125	900	125
Organic chemistry	17,950	425	2,150	175	1,950	200	2,450	250	3,000	300	2,450	325	1,900	225	2,150	275	2,000	250
Chemistry, other, except biochemistry	42,350	625	7,100	350	5,900	350	5,650	375	5,050	325	5,150	350	5,050	375	3,750	350	4,700	350
Geosciences, atmospheric sciences, and ocean sciences	23,150	350	2,600	150	3,450	175	3,200	175	3,100	225	2,450	175	2,150	175	3,050	200	3,200	200
Atmospheric sciences and meteorology	4,450	100	650	75	700	75	850	75	550	75	500	75	400	75	400	50	400	50
Geological and earth sciences, geosciences	13,900	300	1,450	125	2,000	150	1,700	150	1,950	200	1,400	150	1,200	125	2,050	200	2,150	175
Ocean sciences and marine sciences	2,550	75	300	50	450	50	450	75	350	50	250	50	250	50	300	50	250	50
Oceanography, chemical and physical	2,250	100	200	50	300	50	200	50	300	50	300	75	250	75	300	75	450	75
Physics	43,050	775	5,450	325	6,800	425	6,100	475	4,500	300	5,150	400	5,950	475	4,200	350	4,900	450
Psychology	112,100	900	7,750	375	13,650	450	14,450	500	13,700	500	15,350	625	13,550	600	11,100	500	22,600	700
Clinical psychology	40,450	575	2,400	250	5,450	275	4,350	300	4,750	350	5,400	425	5,000	400	5,100	400	8,050	475
Counseling and applied psychology	14,500	300	1,050	125	1,350	150	1,700	175	1,750	225	2,050	225	1,850	250	1,250	175	3,400	325
Educational and school psychology	12,400	325	800	125	1,350	175	1,550	175	1,550	200	1,700	225	1,500	200	750	125	3,200	275
Industrial and organizational psychology	5,150	150	400	75	600	100	700	100	600	100	850	125	750	125	500	100	850	125
Research and experimental psychology	27,200	425	2,050	175	3,550	225	4,550	300	3,600	200	3,900	300	3,000	225	2,300	200	4,250	275
Psychology, general	7,750	300	600	100	850	125	950	200	900	175	850	175	950	175	800	150	1,950	250
Psychology, other	4,600	175	450	75	500	100	600	100	600	100	650	100	500	125	450	100	900	150
Social sciences	104,100	875	6,700	275	13,050	475	16,150	525	13,750	500	14,950	625	12,400	550	10,850	425	16,250	575
Economics	27,950	550	2,700	200	3,900	300	4,150	300	3,700	300	3,100	275	3,000	275	2,600	275	4,850	375
Political science and government	21,700	500	1,450	150	2,550	225	3,450	275	2,350	225	3,850	375	2,900	300	2,450	250	2,750	275
Political science and government	17,100	500	1,150	125	1,950	200	2,700	275	1,700	200	3,150	350	2,450	300	1,950	250	2,000	275
Public policy analysis	4,650	150	300	75	600	75	750	100	650	125	700	100	500	100	500	75	700	100
Sociology, demography, and population studies	15,950	375	700	100	2,000	175	2,400	225	2,400	225	2,350	225	1,850	225	1,700	200	2,600	225
Other social sciences	38,500	525	1,850	150	4,600	250	6,150	300	5,350	300	5,700	325	4,650	275	4,100	275	6,100	300
Anthropology	11,100	325	400	100	1,100	125	1,700	175	1,700	175	1,700	175	1,450	175	1,050	150	2,050	200
Area, ethnic, cultural, gender, and group studies	4,450	150	250	75	650	100	950	125	650	100	600	100	450	75	400	75	550	100

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Geography and cartography	4,850	200	250	50	800	125	700	75	650	100	700	100	650	125	650	125	450	75
International relations and national security studies	2,350	150	100	25	250	50	350	75	300	75	350	75	300	75	300	75	400	100
Linguistics	5,100	225	400	75	650	100	850	125	600	150	850	150	650	125	450	75	600	100
Urban studies, affairs	1,350	100	*	*	50	25	100	25	100	25	250	50	200	50	150	50	450	75
Social sciences, other	9,350	250	450	75	1,100	100	1,500	150	1,300	125	1,350	125	950	125	1,150	150	1,550	175
Engineering	196,750	1,300	29,100	550	34,350	775	29,950	750	24,750	800	21,200	750	21,450	850	18,600	750	17,350	675
Aerospace, aeronautical, and astronautical engineering	8,150	200	1,250	100	1,550	150	1,250	150	700	125	850	125	900	125	950	150	650	125
Chemical engineering	23,700	500	4,450	300	3,750	275	3,600	325	2,550	325	2,950	350	2,400	350	2,100	300	1,850	300
Civil engineering	21,500	475	2,750	225	3,800	300	2,850	275	2,800	300	2,050	225	2,300	275	2,500	325	2,450	275
Electrical and computer engineering	54,000	675	6,450	325	8,800	425	8,500	425	7,550	450	6,100	350	6,900	425	4,600	350	5,050	375
Computer engineering	8,150	200	950	100	1,450	125	1,750	175	1,250	175	700	100	1,000	150	550	100	450	100
Electrical, electronics, and communications engineering	45,850	650	5,500	300	7,400	375	6,750	400	6,300	400	5,400	350	5,900	400	4,050	325	4,600	350
Mechanical engineering	28,800	625	4,500	250	5,450	350	4,400	375	3,650	375	3,150	400	2,650	375	2,900	325	2,050	275
Metallurgical and materials engineering	18,300	450	3,100	200	3,650	275	2,400	250	2,250	225	2,050	275	1,750	225	1,850	250	1,250	175
Other engineering	42,300	550	6,600	250	7,400	325	6,950	375	5,200	325	4,000	300	4,500	350	3,650	275	4,050	225
Agricultural engineering	1,650	100	100	25	200	50	150	50	200	50	200	50	250	50	250	50	300	50
Bioengineering and biomedical engineering	16,350	325	3,600	150	3,650	250	3,600	325	2,100	200	1,050	175	1,150	200	700	150	550	125
Engineering mechanics, physics, and science	4,300	200	300	50	700	100	500	125	500	100	600	100	500	125	500	100	650	100
Industrial and manufacturing engineering	9,150	300	1,050	125	1,200	150	1,300	200	1,400	175	950	150	1,200	225	1,000	175	1,000	150
Nuclear engineering	3,400	150	450	50	450	75	450	75	200	50	350	75	500	75	400	100	550	75
Engineering, other	7,500	225	1,000	125	1,200	125	950	150	800	125	900	150	900	125	800	150	900	150
Health	44,000	600	3,800	225	5,950	300	6,400	350	5,950	350	5,250	350	4,950	325	4,650	350	7,050	375
Communication disorders sciences and services	2,950	150	200	50	250	75	450	75	400	75	300	75	400	100	250	75	750	100
Hospital and medical administration services	1,300	75	50	25	100	25	150	25	150	50	200	50	200	50	150	50	300	50
Pharmacy, pharmaceutical sciences, and administration	8,550	250	1,200	125	1,100	150	1,350	175	1,200	200	1,100	200	1,000	175	900	175	750	150
Public health	10,400	250	1,050	125	2,000	175	1,650	150	1,600	200	1,300	175	950	150	700	125	1,150	125
Registered nursing, nursing administration, nursing research	9,100	325	250	75	600	125	850	150	900	175	1,000	175	1,100	150	1,650	175	2,750	275
Health sciences, other	11,650	325	1,100	150	1,900	175	1,950	175	1,650	200	1,400	200	1,300	150	1,000	200	1,400	175

\* = suppressed when population estimate &lt; 25.

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.