

TABLE 12-1

U.S. residing employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2023

(Number and SE)

Field of study	All employed		4-year educational institution ^a		Other educational institution ^b		Private, for profit ^c		Private, nonprofit		Federal government		State or local government		Self-employed ^d		Other ^e	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	908,700	2,300	341,350	2,475	26,750	875	354,100	2,775	64,300	1,175	58,600	1,250	18,700	725	42,350	1,150	2,450	275
Science	667,950	2,050	272,100	2,250	24,200	800	222,800	2,250	51,550	1,025	45,050	1,150	14,400	600	35,800	1,050	2,100	250
Biological, agricultural, and environmental life sciences	235,050	1,175	94,000	1,250	6,650	425	80,500	1,300	20,900	800	18,800	600	5,450	325	8,300	475	450	100
Agricultural and food sciences	17,050	400	7,200	325	350	75	6,550	350	550	100	1,150	125	400	75	850	150	*	*
Biochemistry and biophysics	29,700	475	10,550	550	1,300	250	12,650	575	2,250	250	1,650	225	350	100	900	200	D	D
Cell, cellular biology, and molecular biology	32,400	525	12,200	575	900	175	12,400	575	3,400	375	2,200	300	350	150	950	200	D	D
Microbiological sciences and immunology	25,400	425	8,900	450	700	150	9,750	475	2,500	275	2,150	225	500	150	850	150	D	D
Natural resources and conservation	9,150	275	3,350	175	300	75	1,800	175	700	100	1,400	125	1,000	125	400	100	100	50
Zoology	6,400	225	3,150	225	350	100	1,000	150	400	75	850	150	300	75	350	75	D	D
Other biological sciences	114,900	750	48,650	850	2,800	225	36,300	750	11,050	575	9,300	525	2,600	250	4,000	350	200	75
Computer and information sciences	36,350	550	12,400	550	250	75	20,800	675	1,250	200	750	150	150	50	750	175	D	D
Mathematics and statistics	38,500	600	19,900	725	1,450	200	13,050	550	1,750	200	1,200	175	250	100	850	175	D	D
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	141,800	1,125	46,050	950	4,850	350	64,600	1,125	8,550	475	11,050	525	2,700	275	3,800	350	150	75
Astronomy and astrophysics	6,450	175	2,900	200	200	75	1,750	150	800	125	600	125	100	50	100	50	D	D
Chemistry, except biochemistry	69,150	850	19,800	725	2,700	275	37,000	875	2,950	300	3,900	350	900	150	1,900	225	D	D
Geosciences, atmospheric sciences, and ocean sciences	23,150	350	10,100	275	700	75	5,700	300	1,750	150	3,250	200	950	100	700	100	D	D
Physics	43,050	775	13,250	625	1,250	200	20,150	750	3,100	350	3,300	325	800	175	1,150	225	D	D
Psychology	112,100	900	38,600	850	6,200	400	27,500	875	11,400	550	6,900	475	3,150	350	18,150	725	150	75
Social sciences	104,100	875	61,150	1,025	4,800	400	16,300	675	7,650	375	6,350	400	2,650	250	3,900	325	1,300	200
Economics	27,950	550	13,950	600	450	125	6,700	450	1,900	225	2,400	250	600	125	1,000	200	950	175
Political science and government	21,700	500	13,200	525	1,100	200	3,100	350	1,600	200	1,200	150	700	150	650	125	150	75
Sociology, demography, and population studies	15,950	375	10,600	400	1,050	175	1,650	200	1,150	150	600	125	300	75	450	125	100	50
Other social sciences	38,500	525	23,400	550	2,150	225	4,850	250	3,000	225	2,150	225	1,100	125	1,750	200	150	50
Engineering	196,750	1,300	47,200	1,100	1,700	275	119,950	1,425	8,200	475	11,250	575	3,200	325	4,950	400	250	100
Aerospace, aeronautical, and astronautical engineering	8,150	200	2,350	225	D	D	4,100	250	450	100	1,050	125	*	*	150	50	D	D
Chemical engineering	23,700	500	3,400	300	200	75	17,100	575	750	200	1,200	200	350	150	700	175	D	D
Civil engineering	21,500	475	6,900	425	200	75	9,850	425	950	200	1,400	250	1,750	250	450	175	50	50
Electrical and computer engineering	54,000	675	10,750	575	300	125	37,300	750	1,800	250	1,950	300	500	150	1,250	200	D	D
Mechanical engineering	28,800	625	7,900	550	350	125	16,500	650	1,000	225	2,000	275	200	100	850	200	D	D
Metallurgical and materials engineering	18,300	450	2,800	300	S	S	12,700	500	750	200	1,200	175	50	50	600	175	D	D
Other engineering	42,300	550	13,100	550	400	125	22,450	550	2,500	250	2,500	250	350	75	950	125	S	S
Health	44,000	600	22,100	575	900	150	11,350	450	4,550	325	2,350	225	1,100	150	1,600	225	100	50

* = 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 Four-year educational institution includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

^b Other educational institution includes 2-year colleges, community colleges, technical institutes, precollege institutions, and other educational institutions.

^c Private, for profit includes those self-employed in an incorporated business.

^d Self-employed or business owner in a nonincorporated business.

^e Other sector includes employers not broken out separately.

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.