

TABLE 12-1

U.S. residing employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2019

(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	857,200	1,975	344,350	2,325	30,900	900	306,300	2,500	55,900	1,125	50,150	1,025	18,850	750	40,750	1,100	10,050	550
Science	640,300	1,900	277,850	1,975	27,850	850	194,000	2,050	44,600	950	39,050	925	14,900	625	35,100	1,025	6,950	450
Biological, agricultural, and environmental life sciences	220,700	1,100	96,250	1,175	8,000	500	68,550	1,175	17,200	550	16,250	575	4,800	375	7,550	475	2,100	250
Agricultural and food sciences	17,400	350	7,300	300	400	100	6,550	300	550	75	1,200	125	400	75	850	125	150	50
Biochemistry and biophysics	29,450	425	11,800	550	1,300	275	10,750	525	1,900	225	1,800	225	450	125	1,250	200	150	75
Cell, cellular biology, and molecular biology	31,200	450	13,100	575	1,250	200	11,050	575	2,800	325	1,550	225	450	150	850	225	200	100
Microbiological sciences and immunology	23,800	400	9,100	425	650	150	8,150	450	2,350	250	2,050	250	450	100	850	175	200	100
Natural resources and conservation	8,800	225	3,450	225	200	50	1,900	200	600	75	1,350	125	800	100	350	75	150	50
Zoology	7,200	225	3,900	200	300	75	1,050	175	350	100	750	125	350	100	350	100	S	S
Other biological sciences	102,800	675	47,550	825	3,900	325	29,050	600	8,600	375	7,550	425	1,900	225	3,100	300	1,150	200
Computer and information sciences	31,100	400	10,750	475	400	100	16,750	575	1,250	200	800	150	250	100	650	125	250	75
Mathematics and statistics	36,650	450	20,200	525	1,550	175	11,350	475	1,400	175	1,250	175	S	S	650	150	200	75
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	133,750	950	47,350	850	6,050	350	56,600	1,025	7,250	375	8,500	450	2,500	275	4,100	350	1,350	200
Astronomy and astrophysics	5,850	175	2,900	175	250	75	1,350	125	600	100	400	100	50	50	100	50	100	50
Chemistry, except biochemistry	65,300	700	20,000	650	3,450	300	32,500	775	2,400	250	3,150	275	1,000	175	2,200	250	650	150
Geosciences, atmospheric sciences, and ocean sciences	22,050	300	10,000	325	900	100	5,600	275	1,250	100	2,700	175	700	100	750	125	250	50
Physics	40,550	575	14,450	550	1,450	225	17,150	650	3,050	300	2,300	275	700	200	1,100	225	400	125
Psychology	115,350	825	39,150	775	7,150	400	27,450	725	11,250	500	6,650	450	4,550	375	18,200	675	950	175
Social sciences	102,700	900	64,150	975	4,700	375	13,350	575	6,200	300	5,550	350	2,700	225	3,950	300	2,100	275
Economics	26,900	550	14,400	525	350	100	5,750	400	1,350	200	2,100	225	750	175	1,050	200	1,200	225
Political science and government	22,450	425	14,950	475	1,300	250	2,400	300	1,250	150	1,050	150	700	125	550	150	200	75
Sociology, demography, and population studies	15,200	325	10,600	350	550	100	1,200	175	1,200	150	500	125	350	100	600	125	250	125
Other social sciences	38,150	500	24,200	525	2,500	250	3,950	250	2,400	200	1,900	175	950	150	1,750	200	450	100
Engineering	176,700	1,175	45,250	925	1,900	225	102,700	1,175	7,850	525	9,000	450	3,000	275	4,200	425	2,800	325
Aerospace, aeronautical, and astronautical engineering	7,050	225	1,650	175	S	S	3,450	225	650	150	950	175	D	D	200	75	100	50
Chemical engineering	20,800	500	3,850	350	500	175	13,550	450	700	150	1,150	225	250	125	450	175	300	100
Civil engineering	19,250	400	7,100	375	250	100	8,150	400	500	150	950	150	1,650	225	400	100	250	100
Electrical and computer engineering	48,550	650	9,950	500	250	75	32,800	725	1,700	250	1,550	175	200	100	950	200	1,150	225
Mechanical engineering	26,550	425	7,350	500	300	100	15,500	575	900	200	1,300	200	250	100	600	150	400	125
Industrial engineers	16,450	350	2,800	275	S	S	11,000	400	1,000	175	800	150	200	75	350	125	200	100
Other engineering	38,050	450	12,550	450	450	100	18,250	500	2,400	225	2,350	200	400	75	1,250	175	400	100
Health	40,200	475	21,250	550	1,150	150	9,600	400	3,450	300	2,100	200	950	150	1,450	200	300	75

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

^a Includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

^b Includes 2-year colleges, community colleges, or technical institutes, and other precollege institutions.

^c Includes those self-employed in an incorporated business.

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

^e 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 2019.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.