TABLE 12-1

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

(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	872,100	2,425	340,950	2,450	27,800	825	320,850	2,625	60,200	1,300	52,700	1,250	19,650	750	42,650	1,075	7,300	425
Science	647,300	2,000	272,450	2,175	25,000	800	203,450	2,075	48,200	1,275	40,850	1,125	15,550	675	36,800	1,025	5,000	375
Biological, agricultural, and environmental life sciences	226,850	1,275	95,500	1,375	7,300	475	73,150	1,175	20,000	725	16,750	725	5,250	375	7,550	450	1,300	175
Agricultural and food sciences	16,600	350	7,350	350	400	75	6,000	325	500	100	1,150	150	450	125	700	125	100	50
Biochemistry and biophysics	29,550	600	11,150	550	1,250	250	11,750	650	2,050	275	1,700	225	350	100	1,100	200	150	100
Cell, cellular biology, and molecular biology	32,300	450	12,900	525	950	175	11,500	525	3,600	325	2,000	325	350	125	850	200	150	75
Microbiological sciences and immunology	24,750	425	9,050	425	500	100	9,200	500	2,350	250	2,100	225	600	150	900	200	100	50
Natural resources and conservation	9,000	225	3,600	200	350	125	1,700	175	700	100	1,350	150	800	75	400	100	100	50
Zoology	6,850	250	3,550	250	250	75	1,050	175	350	75	750	125	600	150	300	75	S	S
Other biological sciences	107,800	850	47,900	975	3,600	325	32,000	800	10,450	525	7,700	450	2,200	275	3,300	325	650	125
Computer and information sciences	33,600	425	11,850	450	350	100	18,350	475	1,100	200	700	125	350	150	700	175	S	S
Mathematics and statistics	36,600	575	20,250	625	1,250	200	11,250	525	1,400	225	1,100	175	300	100	800	150	200	75
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	137,050	1,025	45,900	1,025	5,450	375	60,000	1,150	7,750	400	9,700	475	3,100	275	4,100	375	1,050	175
Astronomy and astrophysics	6,350	175	3,050	225	150	50	1,600	150	700	100	400	100	200	100	100	50	100	50
Chemistry, except biochemistry	66,350	800	19,750	725	2,900	275	34,350	825	2,650	250	3,350	325	1,100	200	1,900	250	400	125
Geosciences, atmospheric sciences, and ocean sciences	22,050	325	9,850	325	800	100	5,300	275	1,300	100	2,850	175	1,050	125	700	125	250	50
Physics	42,300	675	13,250	575	1,550	275	18,800	750	3,100	325	3,100	300	750	150	1,400	275	350	125
Psychology	113,500	825	38,700	800	6,350	425	26,750	800	10,650	575	6,700	475	3,900	400	19,750	750	700	150
Social sciences	99,700	1,000	60,250	950	4,350	375	13,850	650	7,300	475	5,950	450	2,600	225	3,900	325	1,500	200
Economics	27,300	550	14,300	575	350	125	6,000	400	2,000	250	2,300	275	650	150	750	150	950	175
Political science and government	20,500	550	12,900	500	950	225	2,500	275	1,700	250	1,100	200	650	150	650	150	100	50
Sociology, demography, and population studies	15,650	375	10,600	450	850	150	1,400	200	1,150	150	600	150	400	75	550	100	150	75
Other social sciences	36,300	575	22,450	500	2,200	225	3,950	275	2,400	225	1,950	225	950	125	2,000	225	350	100
Engineering	183,100	1,325	46,850	1,150	1,850	250	107,350	1,400	7,750	475	9,550	550	3,250	300	4,500	400	1,950	275
Aerospace, aeronautical, and astronautical engineering	7,150	250	1,700	200	D	D	3,600	275	550	100	900	150	150	50	150	50	100	50
Chemical engineering	21,650	500	3,750	375	300	100	14,000	550	850	175	1,500	250	350	125	650	175	250	100
Civil engineering	19,750	575	6,600	400	150	75	9,250	500	550	125	950	175	1,500	225	450	125	250	100
Electrical and computer engineering	50,400	650	10,600	500	500	175	34,150	775	1,700	275	1,300	175	400	100	1,150	250	650	175
Mechanical engineering	27,500	450	7,650	475	250	100	16,250	575	750	125	1,550	225	300	125	600	175	200	75
Metallurgical and materials engineering	17,450	400	3,300	350	250	125	11,100	425	950	200	1,000	175	200	100	400	125	200	75
Other engineering	39,250	525	13,250	475	350	75	19,050	550	2,450	225	2,350	200	350	75	1,100	150	350	75
Health	41,650	525	21,600	600	950	175	10,050	400	4,250	300	2,250	250	850	125	1,350	175	350	100

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 2021.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2021.