TABLE 42

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

(Number and SE)

Occupation	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 occupations	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 occupations	502,250	2,725	227,900	2,150	15,900	625	150,950	1,975	32,250	950	34,350	1,075	10,850	525	25,950	850	4,050	325
Biological, agricultural, and other life scientists	160,850	1,700	77,100	1,275	3,650	325	45,400	1,200	12,600	550	14,250	650	3,300	275	3,550	325	1,000	150
Agricultural, food scientists	10,650	550	3,150	225	D	D	4,750	400	200	75	1,600	175	200	75	650	175	50	25
Biochemists, biophysicists	18,000	750	6,700	475	D	D	8,150	575	1,250	200	1,100	200	100	50	450	150	S	S
Biological scientists	26,050	850	9,800	500	200	75	5,050	375	3,000	325	5,600	425	1,450	200	600	125	300	100
Forestry, conservation scientists	2,400	225	650	125	D	D	150	50	750	150	550	100	200	50	150	75	D	D
Medical scientists	41,550	975	14,600	600	S	S	16,150	650	5,300	375	3,400	300	800	175	950	175	300	100
Postsecondary teachers, agricultural, other natural sciences	5,200	350	5,050	350	150	75	D	D	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, biological sciences	34,400	975	31,200	925	3,200	300	D	D	D	D	D	D	D	D	D	D	D	D
Other biological, agricultural, life scientists	22,600	825	5,950	425	D	D	11,150	575	2,100	225	2,000	250	550	100	750	150	150	75
Computer and information scientists	65,450	1,025	14,600	625	600	150	44,050	925	2,150	275	1,300	175	800	200	1,350	225	550	150
Computer and information scientists	55,100	1,125	4,650	350	200	100	44,050	925	2,150	275	1,300	175	800	200	1,350	225	550	150
Postsecondary teachers, computer science	10,350	550	9,900	550	400	100	D	D	D	D	D	D	D	D	D	D	D	D
Mathematical scientists	43,950	875	21,200	625	1,200	200	15,950	650	2,350	275	2,050	225	500	150	500	125	250	100
Mathematical scientists	24,900	750	3,250	300	100	50	15,950	650	2,350	275	2,050	225	500	150	500	125	250	100
Postsecondary teachers, mathematics, statistics	19,050	625	17,950	600	1,100	175	D	D	D	D	D	D	D	D	D	D	D	D
Physical scientists	85,100	1,375	41,000	1,000	4,300	350	23,150	825	4,550	325	7,450	425	2,450	250	1,600	225	650	125
Chemists, except biochemists	21,250	675	2,500	275	D	D	14,200	625	950	150	2,050	250	650	125	750	175	200	75
Earth, atmospheric, ocean scientists	11,500	400	3,650	225	50	25	3,150	250	1,050	150	2,550	200	550	75	350	100	200	75
Physicists, astronomers	13,550	625	3,750	300	D	D	3,950	325	1,950	250	2,300	275	1,000	175	400	150	200	75
Postsecondary teachers, chemistry	17,200	700	14,450	625	2,700	300	D	D	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, physics	10,100	550	9,050	500	1,050	200	D	D	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, other physical science	6,700	350	6,400	350	300	75	D	D	D	D	D	D	D	D	D	D	D	D
Other physical scientists	4,800	350	1,200	200	D	D	1,850	250	600	150	550	100	250	75	100	75	D	D
Psychologists	78,400	1,025	26,100	775	3,600	275	17,200	750	6,250	475	5,250	425	2,450	325	17,150	700	350	125
Psychologists	58,300	1,050	7,150	450	2,400	225	17,200	750	6,250	475	5,250	425	2,450	325	17,150	700	350	125
Postsecondary teachers, psychology	20,150	725	18,950	750	1,150	175	D	D	D	D	D	D	D	D	D	D	D	D
Social scientists	68,450	1,150	47,950	950	2,550	275	5,200	350	4,300	350	4,100	350	1,350	150	1,800	225	1,200	175
Economists	9,150	375	1,350	175	D	D	2,350	250	1,450	225	1,900	225	450	125	600	150	1,000	175
Political scientists	1,750	250	600	150	D	D	150	75	400	150	350	100	100	50	D	D	D	D
Postsecondary teachers, economics	10,900	600	10,750	600	150	75	D	D	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, political science	10,000	525	9,350	525	600	200	D	D	D	D	D	D	D	D	D	D	D	D

TABLE 42

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

(Number and SE)

Occupation	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
Postsecondary teachers, sociology	7,950	425	7,350	425	600	125	D	D	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, other social sciences	15,550	500	14,800	500	750	150	D	D	D	D	D	D	D	D	D	D	D	D
Sociologists, anthropologists	3,800	300	1,300	150	50	50	550	125	550	125	550	150	150	50	550	150	50	25
Other social scientists	9,400	475	2,450	225	300	75	2,100	250	1,900	225	1,250	200	600	100	650	125	100	50
Engineering occupations	122,800	1,575	36,600	1,000	450	150	68,150	1,400	4,100	325	7,200	500	2,600	325	2,350	275	1,300	200
Aerospace, aeronautical, astronautical engineers	7,100	425	700	150	D	D	3,850	325	650	125	1,550	250	200	50	S	S	100	50
Chemical engineers	8,800	475	850	175	D	D	6,450	425	400	125	700	175	D	D	S	S	D	D
Civil, architectural, sanitary engineers	7,400	425	900	175	D	D	4,250	375	100	50	500	125	1,300	250	250	100	S	S
Electrical engineers	26,950	850	2,000	275	D	D	21,900	800	900	175	950	150	200	75	600	175	400	150
Industrial engineers	1,450	200	250	75	D	D	950	175	S	S	50	25	D	D	100	50	D	D
Mechanical engineers	14,250	625	2,100	300	D	D	9,950	575	550	125	1,200	250	D	D	250	75	200	75
Postsecondary teachers, engineering	26,100	750	25,600	750	450	150	D	D	D	D	D	D	D	D	D	D	D	D
Other engineers	30,750	825	4,200	350	D	D	20,800	700	1,350	200	2,200	225	800	150	950	175	400	125
S&E-related occupations	100,450	1,525	36,750	1,025	5,800	375	35,400	1,075	11,350	575	5,100	400	2,750	300	2,450	250	800	200
Health occupations, except postsecondary teachers and managers	30,750	850	7,750	525	250	125	9,600	575	7,800	425	1,900	250	1,250	225	1,900	225	300	75
Postsecondary teachers, health and related science	24,000	825	23,550	825	250	75	D	D	50	50	D	D	D	D	D	D	D	D
S&E managers, including health	30,550	950	4,050	350	D	D	18,750	775	2,900	300	2,850	300	1,300	200	250	100	450	150
S&E precollege teachers	5,300	325	D	D	5,250	325	D	D	D	D	D	D	D	D	D	D	D	D
S&E technicians/ technologists	9,100	600	1,350	250	D	D	6,350	475	550	100	300	100	200	75	300	100	S	S
Other S&E-related occupations	800	150	D	D	D	D	600	125	S	S	D	D	D	D	D	D	D	D
Non-S&E occupations	146,600	1,825	39,650	875	5,600	425	66,400	1,175	12,500	625	6,050	425	3,450	325	11,850	575	1,150	175
Arts, humanities-related occupations	9,150	500	750	150	S	S	4,200	375	1,150	200	200	75	100	50	2,600	275	S	S
Management-related occupations	29,100	975	3,500	275	500	150	16,300	725	2,650	275	2,300	225	1,000	175	2,400	300	400	125
Non-S&E managers	60,150	1,350	16,550	600	2,200	250	30,450	950	5,650	375	2,000	250	1,250	200	1,750	225	350	100
Non-S&E postsecondary teachers	17,250	575	16,500	575	600	125	D	D	100	50	D	D	D	D	D	D	D	D
Non-S&E precollege/ other teachers	3,700	350	50	25	1,550	200	800	125	300	125	D	D	D	D	750	175	D	D
Sales, marketing occupations	8,550	525	100	50	D	D	6,650	400	250	100	D	D	D	D	1,350	250	150	75
Social service-related occupations	6,000	350	900	175	500	150	1,050	150	1,750	200	200	75	350	100	1,200	200	50	50
Other non-S&E occupations	12,750	575	1,250	150	150	75	6,950	450	600	100	1,200	200	700	150	1,800	225	50	50

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

S&E = science and engineering; 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.