

TABLE 33

U.S. residing doctoral scientists and engineers, by occupation and sex: 2019

(Number and SE)

Occupation	Total		Male		Female	
	Number	SE	Number	SE	Number	SE
All occupations	1,008,750	1,475	644,550	1,400	364,200	1,025
Science occupations	578,050	2,425	358,950	2,050	219,100	1,350
Biological, agricultural, and other life scientist	183,050	1,625	106,250	1,275	76,850	975
Agricultural, food scientist	14,500	525	10,350	475	4,150	250
Biochemists, biophysicist	19,650	725	12,550	550	7,100	450
Biological scientist	30,700	700	17,250	600	13,450	475
Forestry, conservation scientist	2,750	225	1,750	200	950	125
Medical scientist	48,300	1,100	26,350	800	21,900	725
Postsecondary teachers, agricultural, other natural sciences	7,150	375	4,650	350	2,550	175
Postsecondary teachers, biological sciences	37,800	800	22,100	725	15,700	475
Other biological, agricultural, life scientist	22,250	725	11,250	550	11,000	475
Computer and information scientist	71,350	1,075	59,100	1,000	12,250	475
Computer and information scientist	60,650	1,075	50,550	1,000	10,050	475
Postsecondary teachers, computer science	10,700	525	8,500	500	2,200	225
Mathematical scientist	47,850	825	33,500	800	14,300	450
Mathematical scientist	24,750	700	16,750	675	8,000	400
Postsecondary teachers, mathematics, statistics	23,050	600	16,750	550	6,300	325
Physical scientist	101,350	1,325	77,500	1,125	23,850	575
Chemists, except biochemist	27,250	800	20,900	675	6,350	375
Earth, atmospheric, ocean scientist	14,550	400	11,200	375	3,400	175
Physicists, astronomers	14,700	700	12,900	650	1,850	200
Postsecondary teachers, chemistry	19,500	675	12,850	550	6,650	325
Postsecondary teachers, physics	12,350	600	10,250	575	2,100	200
Postsecondary teachers, other physical science	8,400	300	6,000	275	2,450	175
Other physical scientist	4,550	325	3,450	300	1,100	150
Psychologist	91,600	975	36,150	675	55,400	850
Psychologist	67,850	1,025	25,450	725	42,400	875
Postsecondary teachers, psychology	23,750	675	10,750	500	13,000	550
Social scientist	82,850	1,050	46,450	800	36,400	700
Economist	11,300	575	7,850	500	3,450	275
Political scientist	2,450	300	1,600	275	850	125
Postsecondary teachers, economics	12,800	550	9,600	500	3,200	250
Postsecondary teachers, political science	12,600	475	8,400	400	4,250	300
Postsecondary teachers, sociology	9,450	375	4,300	275	5,150	275
Postsecondary teachers, other social sciences	19,200	600	9,400	475	9,800	400
Sociologist, anthropologist	4,500	325	1,750	200	2,750	250
Other social scientist	10,500	525	3,600	275	6,900	375
Engineering occupations	136,750	1,375	115,950	1,375	20,800	650
Aerospace, aeronautical, astronautical engineer	8,250	475	7,400	450	850	150
Chemical engineer	10,950	525	8,900	500	2,050	275
Civil, architectural, sanitary engineer	7,750	475	6,550	475	1,200	150
Electrical engineer	30,700	825	27,500	800	3,250	300
Industrial engineer	2,100	275	1,600	275	500	100
Mechanical engineer	15,000	575	13,600	550	1,400	150
Postsecondary teacher, engineering	25,750	800	21,400	750	4,350	300
Other engineer	36,200	725	29,000	725	7,200	400
S&E-related occupations	108,900	1,600	60,950	1,325	47,950	900
Health occupations, except postsecondary teachers and managers	36,200	875	17,700	675	18,450	575
Postsecondary teacher, health and related science	27,600	700	11,500	600	16,100	500
S&E managers, including health	28,900	925	20,250	825	8,600	425

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S&E precollege teachers	6,850	450	4,100	375	2,750	225
S&E technicians/ technologists	8,300	475	6,600	425	1,650	225
Other S&E-related occupation	1,100	175	750	150	350	100
Non-S&E occupations	185,050	1,900	108,700	1,550	76,350	1,225
Arts, humanities-related occupation	11,100	450	3,800	325	7,300	350
Management-related occupation	42,000	1,275	25,800	1,000	16,200	700
Non-S&E managers	64,350	1,175	43,200	1,025	21,200	650
Non-S&E postsecondary teachers	23,750	725	13,000	575	10,750	450
Non-S&E precollege/ other teachers	6,950	450	2,550	300	4,400	300
Sales, marketing occupation	11,350	550	7,200	500	4,150	325
Social service-related occupation	8,150	450	3,350	325	4,800	350
Other non-S&E occupation	17,400	700	9,750	525	7,650	475

S&E = science and engineering; 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. If respondent was not employed during survey reference period, occupation when last employed was reported. Excludes 350 individuals who reported never having worked so could not be classified by occupation. 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.