TABLE 37

U.S. residing employed doctoral scientists and engineers, by occupation, ethnicity, race, and sex: 2021

(Number and SE)

Occupation	All employed						Asian[a]						Other minority[b]						White[c]					
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All occupations	872,100	2,425	543,550	2,350	328,500	1,250	219,800	1,600	148,600	1,550	71,200	1,125	89,300	875	47,700	725	41,600	600	562,950	2,075	347,250	1,925	215,700	1,325
Science occupations	502,250	2,725	301,700	2,300	200,550	1,575	118,200	1,525	74,900	1,250	43,300	1,075	50,850	875	26,450	600	24,400	600	333,150	2,375	200,350	1,900	132,800	1,375
Biological, agricultural, and other life scientists	160,850	1,700	90,550	1,400	70,300	1,000	41,000	1,050	22,350	775	18,650	700	16,050	550	8,100	375	7,950	325	103,800	1,450	60,100	1,200	43,700	850
Agricultural, food scientists	10,650	550	7,150	450	3,500	275	2,500	225	1,450	175	1,050	175	1,550	125	1,050	100	500	75	6,600	475	4,650	400	1,950	225
Biochemists, biophysicists	18,000	750	12,100	675	5,850	350	6,700	450	4,150	400	2,550	300	1,300	150	800	150	500	100	10,000	575	7,200	500	2,800	250
Biological scientists	26,050	850	14,550	725	11,500	500	5,850	475	2,950	375	2,900	300	2,800	225	1,350	175	1,450	175	17,350	700	10,250	625	7,150	350
Forestry, conservation scientists	2,400	225	1,700	225	700	100	100	50	50	25	50	25	200	75	100	50	100	50	2,150	225	1,550	200	600	100
Medical scientists	41,550	975	21,250	700	20,250	675	12,100	600	6,550	450	5,550	450	3,950	300	1,750	175	2,200	200	25,500	825	13,000	600	12,550	575
Postsecondary teachers, agricultural, other natural sciences	5,200	350	3,300	275	1,900	225	900	175	600	175	350	100	600	100	400	75	200	50	3,700	300	2,350	250	1,350	200
Postsecondary teachers, biological sciences	34,400	975	19,250	775	15,200	625	4,850	425	2,950	325	1,900	275	3,200	200	1,550	175	1,650	150	26,400	850	14,800	725	11,600	525
Other biological, agricultural, life scientists	22,600	825	11,200	600	11,400	550	8,000	550	3,700	400	4,300	325	2,500	225	1,150	150	1,350	150	12,100	600	6,400	450	5,750	400
Computer and information scientists	65,450	1,025	53,250	1,025	12,200	425	29,350	850	23,300	750	6,050	425	4,100	300	3,150	275	950	125	32,000	900	26,800	850	5,200	300
Computer and information scientists	55,100	1,125	45,350	1,100	9,750	425	25,600	875	20,550	775	5,050	400	3,200	275	2,550	250	700	100	26,300	850	22,300	825	4,000	275
Postsecondary teachers, computer science	10,350	550	7,900	525	2,450	250	3,750	375	2,750	375	1,050	175	900	125	650	125	250	75	5,700	425	4,500	400	1,200	175
Mathematical scientists	43,950	875	31,350	800	12,600	450	15,200	625	9,850	525	5,350	350	3,950	225	2,850	175	1,150	125	24,800	700	18,650	650	6,100	275
Mathematical scientists	24,900	750	17,050	725	7,850	400	10,500	550	6,550	475	3,950	325	2,200	175	1,500	150	700	125	12,200	550	9,000	525	3,200	225
Postsecondary teachers, mathematics, statistics	19,050	625	14,300	525	4,750	325	4,700	375	3,300	325	1,400	200	1,800	150	1,350	125	450	75	12,600	500	9,650	450	2,950	225
Physical scientists	85,100	1,375	62,150	1,200	22,950	675	19,300	850	14,000	725	5,350	400	7,100	325	4,650	250	2,400	200	58,700	1,150	43,500	1,025	15,200	475
Chemists, except biochemists	21,250	675	15,600	625	5,600	400	6,400	450	4,700	400	1,700	225	1,850	200	1,000	125	850	150	13,000	575	9,950	525	3,050	275
Earth, atmospheric, ocean scientists	11,500	400	8,200	350	3,350	225	2,550	250	1,750	200	800	175	800	75	500	75	300	75	8,200	350	5,950	300	2,250	150
Physicists, astronomers	13,550	625	11,400	575	2,150	225	3,000	375	2,300	325	700	175	700	100	500	100	150	50	9,850	500	8,550	475	1,300	150
Postsecondary teachers, chemistry	17,200	700	10,850	600	6,300	375	3,000	350	1,750	275	1,300	200	1,800	175	1,150	150	600	100	12,350	600	7,950	500	4,400	350
Postsecondary teachers, physics	10,100	550	8,250	525	1,850	200	2,250	375	1,850	325	350	125	900	150	800	125	150	50	6,950	500	5,550	475	1,350	150
Postsecondary teachers, other physical science	6,700	350	4,400	275	2,300	175	950	200	700	175	250	75	600	75	350	75	250	50	5,200	300	3,350	250	1,850	150
Other physical scientists	4,800	350	3,450	325	1,350	175	1,200	225	950	200	250	75	450	125	350	125	S	S	3,150	275	2,150	225	1,000	175
Psychologists	78,400	1,025	27,550	875	50,850	825	4,150	350	1,000	150	3,200	300	9,750	350	2,550	225	7,200	300	64,500	925	24,000	800	40,500	825
Psychologists	58,300	1,050	19,000	850	39,250	800	2,700	300	500	150	2,200	250	7,050	350	1,600	200	5,450	300	48,550	1,000	16,900	775	31,600	775
Postsecondary teachers, psychology	20,150	725	8,550	525	11,600	450	1,450	225	500	100	1,000	200	2,700	225	1,000	125	1,750	150	15,950	675	7,050	525	8,850	400
Social scientists	68,450	1,150	36,850	925	31,600	725	9,150	450	4,450	325	4,700	350	9,850	425	5,100	325	4,750	250	49,400	1,050	27,300	800	22,100	625
Economists	9,150	375	5,850	325	3,250	250	2,200	225	1,100	175	1,100	175	1,400	175	1,000	150	400	100	5,550	350	3,800	300	1,750	200
Political scientists	1,750	250	1,100	200	650	150	D	D	D	D	D	D	350	125	150	50	S	S	1,350	200	950	200	450	100
Postsecondary teachers, economics	10,900	600	8,000	525	2,900	300	2,100	250	1,400	225	750	150	950	100	700	100	250	50	7,850	500	5,950	450	1,900	225
Postsecondary teachers, political science	10,000	525	6,700	450	3,300	300	800	150	500	125	300	75	1,250	175	750	150	500	150	7,900	475	5,400	425	2,500	225
Postsecondary teachers, sociology	7,950	425	3,500	325	4,450	300	700	175	250	100	450	125	1,500	175	800	175	750	100	5,700	375	2,450	300	3,250	250

TABLE 37

U.S. residing employed doctoral scientists and engineers, by occupation, ethnicity, race, and sex: 2021

(Number and SE)

Occupation	All employed						Asian[a]						Other minority[b]						White[c]					
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Postsecondary teachers, other social sciences	15,550	500	6,750	400	8,800	425	1,700	225	650	125	1,050	200	2,300	175	950	100	1,350	125	11,550	450	5,150	375	6,400	350
Sociologists, anthropologists	3,800	300	1,700	250	2,100	200	200	75	100	50	100	50	500	75	200	50	350	75	3,100	300	1,450	250	1,650	200
Other social scientists	9,400	475	3,250	300	6,150	350	1,400	225	450	100	950	200	1,550	175	550	100	1,000	125	6,450	350	2,250	250	4,200	250
Engineering occupations	122,800	1,575	101,650	1,550	21,100	625	50,050	1,150	41,450	1,075	8,650	450	9,800	375	7,600	350	2,200	175	62,900	1,200	52,650	1,175	10,300	425
Aerospace, aeronautical, astronautical engineers	7,100	425	6,050	400	1,050	175	1,650	250	1,350	225	300	125	650	100	600	100	50	25	4,750	350	4,050	325	700	150
Chemical engineers	8,800	475	7,150	475	1,650	200	3,800	350	3,100	325	650	150	750	125	550	100	150	50	4,250	375	3,450	350	800	125
Civil, architectural, sanitary engineers	7,400	425	6,300	425	1,100	150	3,050	375	2,550	350	500	100	600	100	500	75	100	50	3,750	325	3,250	300	550	100
Electrical engineers	26,950	850	23,700	825	3,250	275	13,600	600	11,650	600	1,950	200	1,800	200	1,500	175	300	100	11,550	600	10,550	600	1,000	175
Industrial engineers	1,450	200	950	175	500	100	600	125	300	100	300	100	200	50	150	50	100	50	650	125	500	125	100	50
Mechanical engineers	14,250	625	12,900	625	1,400	200	7,100	500	6,500	500	600	125	750	100	550	100	200	75	6,450	425	5,800	400	600	150
Postsecondary teachers, engineering	26,100	750	21,050	700	5,100	325	8,300	525	6,950	500	1,350	175	2,650	225	2,050	200	600	100	15,200	650	12,050	600	3,150	275
Other engineers	30,750	825	23,650	775	7,100	400	12,000	575	9,000	550	3,000	300	2,450	175	1,700	150	750	100	16,300	650	12,950	600	3,350	225
S&E-related occupations	100,450	1,525	56,900	1,200	43,600	1,050	24,400	950	15,500	800	8,900	625	10,750	400	4,850	275	5,900	300	65,350	1,125	36,550	925	28,750	800
Health occupations, except postsecondary teachers and managers	30,750	850	15,700	775	15,000	525	7,600	525	4,400	475	3,200	300	3,750	250	1,650	150	2,100	200	19,400	600	9,650	550	9,750	400
Postsecondary teachers, health and related science	24,000	825	9,750	600	14,250	550	4,100	375	2,050	300	2,050	250	2,900	225	750	125	2,100	200	17,000	700	6,950	500	10,050	475
S&E managers, including health	30,550	950	21,050	800	9,500	550	8,550	625	6,050	525	2,550	350	2,500	225	1,500	200	1,000	150	19,500	725	13,500	675	5,950	425
S&E precollege teachers	5,300	325	2,550	250	2,750	250	400	100	200	75	250	100	800	125	350	75	500	100	4,050	300	2,050	225	2,050	200
S&E technicians/ technologists	9,100	600	7,250	525	1,800	225	3,250	325	2,500	275	700	150	750	125	550	100	200	50	5,100	400	4,200	375	900	175
Other S&E-related occupations	800	150	550	125	250	75	500	125	300	100	200	75	50	25	50	25	D	D	250	100	200	75	S	S
Non-S&E occupations	146,600	1,825	83,300	1,525	63,300	975	27,150	950	16,800	775	10,350	525	17,900	575	8,800	400	9,100	375	101,550	1,525	57,700	1,325	43,850	925
Arts, humanities-related occupations	9,150	500	2,900	300	6,250	375	1,300	225	300	100	1,000	225	1,000	150	300	75	700	150	6,850	425	2,350	275	4,500	325
Management-related occupations	29,100	975	15,850	775	13,250	575	6,650	450	4,050	375	2,600	275	3,700	300	1,700	225	2,000	175	18,750	650	10,050	500	8,700	450
Non-S&E managers	60,150	1,350	38,800	1,150	21,350	725	11,200	675	8,100	575	3,100	325	6,400	300	3,600	250	2,800	200	42,550	1,200	27,100	1,025	15,450	625
Non-S&E postsecondary teachers	17,250	575	9,200	450	8,000	425	2,850	300	1,600	225	1,250	200	2,750	225	1,400	150	1,350	175	11,650	475	6,200	350	5,400	375
Non-S&E precollege/ other teachers	3,700	350	1,500	225	2,250	225	550	125	S	S	500	125	550	125	200	75	350	100	2,650	300	1,200	200	1,400	175
Sales, marketing occupations	8,550	525	5,250	450	3,300	300	2,500	275	1,600	275	850	150	800	125	400	75	400	75	5,300	400	3,250	325	2,050	225
Social service-related occupations	6,000	350	2,600	275	3,400	275	300	100	200	75	100	50	1,200	150	400	100	800	125	4,450	350	2,000	275	2,450	250
Other non-S&E occupations	12,750	575	7,250	475	5,500	350	1,750	225	850	175	900	150	1,550	200	850	150	700	125	9,450	500	5,500	425	3,900	300

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] Asian is single race.
[b] Other minority includes Hispanic or Latino; American Indian or Alaska Native, Black or African American, and Native Hawaiian or Other Pacific Islander (all not of Hispanic or Latino ethnicity); and respondents reporting more than one race. Detail for Other minority can be found in table 38.
[c] White is single race.

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.