

TABLE 37

## U.S. residing employed doctoral scientists and engineers, by occupation, ethnicity, race, and sex: 2023

(Number and SE)

Occupation	All employed						Asian <sup>a</sup>						Other minority <sup>b</sup>						White <sup>c</sup>					
	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	908,700	2,300	558,900	1,850	349,800	1,475	240,850	1,900	162,600	1,750	78,250	1,050	101,150	950	52,650	800	48,450	700	566,700	2,050	343,600	1,825	223,050	1,500
Science occupations	489,300	2,625	304,850	2,100	184,400	1,525	131,700	1,700	86,500	1,450	45,200	900	52,150	750	28,550	575	23,600	550	305,400	2,200	189,800	1,800	115,600	1,300
Biological, agricultural, and other life scientists	168,150	1,575	93,750	1,525	74,400	1,125	44,450	925	25,100	800	19,350	775	18,750	525	9,150	425	9,550	350	104,950	1,375	59,500	1,225	45,450	800
Agricultural, food scientists	11,250	475	7,250	425	4,000	250	2,950	300	1,950	275	1,000	150	1,700	150	1,000	125	700	100	6,550	350	4,300	300	2,300	175
Biochemists, biophysicists	17,100	575	11,700	525	5,350	350	6,500	475	4,150	325	2,400	275	1,500	175	1,000	175	550	100	9,050	450	6,600	400	2,450	200
Biological scientists	30,000	700	16,250	625	13,700	525	7,600	500	3,800	375	3,800	400	3,600	225	1,750	175	1,850	175	18,800	575	10,700	500	8,050	375
Forestry, conservation scientists	2,900	225	1,750	200	1,100	125	150	75	S	S	50	25	300	100	200	100	100	50	2,400	200	1,450	175	950	125
Medical scientists	46,600	975	24,000	825	22,600	775	12,900	625	7,000	500	5,900	425	5,150	375	2,300	275	2,850	225	28,600	800	14,700	650	13,900	600
Postsecondary teachers, agricultural, other natural sciences	5,100	325	3,150	275	2,000	200	950	175	600	150	350	100	500	75	300	75	200	50	3,600	275	2,200	250	1,400	150
Postsecondary teachers, biological sciences	33,000	875	18,500	750	14,500	525	5,200	475	3,350	425	1,900	275	3,400	250	1,550	175	1,900	175	24,350	750	13,600	650	10,750	450
Other biological, agricultural, life scientists	22,250	750	11,150	600	11,100	475	8,100	525	4,150	400	3,950	375	2,550	175	1,100	125	1,450	150	11,600	550	5,950	425	5,650	350
Computer and information scientists	76,900	1,250	62,100	1,125	14,800	650	35,800	975	28,800	900	7,000	475	4,700	275	3,550	250	1,200	150	36,400	825	29,750	775	6,650	425
Computer and information scientists	66,200	1,300	54,000	1,200	12,250	600	31,550	975	25,700	925	5,850	450	3,750	225	2,900	200	850	125	30,900	825	25,350	750	5,550	375
Postsecondary teachers, computer science	10,700	525	8,150	475	2,550	250	4,250	350	3,100	325	1,100	175	950	150	600	150	350	100	5,500	400	4,400	375	1,100	150
Mathematical scientists	48,650	1,000	33,750	800	14,900	550	17,450	700	11,350	550	6,050	400	4,450	250	3,100	225	1,350	125	26,750	850	19,300	725	7,450	375
Mathematical scientists	30,100	800	20,300	700	9,800	475	12,900	625	8,300	550	4,600	350	2,500	200	1,600	150	900	125	14,700	650	10,400	550	4,300	325
Postsecondary teachers, mathematics, statistics	18,550	675	13,450	500	5,100	325	4,500	400	3,050	325	1,450	225	1,950	175	1,500	175	500	75	12,050	550	8,900	450	3,150	225
Physical scientists	88,350	1,325	64,800	1,250	23,550	625	21,050	850	15,350	750	5,700	400	8,150	375	5,350	300	2,800	225	59,150	1,025	44,150	975	15,000	500
Chemists, except biochemists	21,850	775	16,150	700	5,700	350	7,050	525	5,200	450	1,800	225	2,000	150	1,200	125	800	125	12,800	600	9,750	550	3,050	225
Earth, atmospheric, ocean scientists	13,550	550	9,650	450	3,900	275	3,100	325	2,200	250	900	175	1,100	100	700	100	450	75	9,300	400	6,750	350	2,550	200
Physicists, astronomers	14,650	650	12,350	625	2,300	225	3,400	300	2,700	300	700	125	1,150	200	800	150	350	125	10,150	550	8,850	550	1,250	150
Postsecondary teachers, chemistry	16,250	700	9,900	575	6,350	400	2,950	425	1,750	350	1,200	250	1,900	200	1,150	150	750	150	11,350	550	7,000	425	4,400	325
Postsecondary teachers, physics	9,350	525	7,650	500	1,700	175	2,050	325	1,650	325	400	125	750	125	650	100	100	50	6,550	450	5,350	425	1,150	150
Postsecondary teachers, other physical science	6,750	275	4,400	275	2,400	175	850	150	600	125	300	75	750	100	450	100	300	50	5,150	225	3,350	225	1,800	150
Other physical scientists	5,950	400	4,700	375	1,250	150	1,650	250	1,250	225	350	100	450	100	350	100	100	50	3,850	300	3,050	300	750	100
Psychologists	36,450	850	13,450	600	23,000	725	2,950	350	750	150	2,200	325	4,900	300	1,850	225	3,050	225	28,600	725	10,850	525	17,700	625
Psychologists	17,550	725	5,750	450	11,800	600	1,550	225	250	75	1,250	225	2,100	225	700	175	1,400	175	13,900	625	4,800	400	9,100	550
Postsecondary teachers, psychology	18,900	675	7,700	450	11,200	500	1,400	250	450	125	950	225	2,800	250	1,150	175	1,650	175	14,700	625	6,100	400	8,600	450
Social scientists	70,750	1,175	36,950	825	33,800	825	10,050	550	5,150	425	4,900	375	11,150	425	5,550	300	5,600	300	49,550	975	26,250	725	23,300	650
Economists	9,700	475	6,450	400	3,200	275	2,150	250	1,250	225	900	150	1,350	150	1,000	150	350	75	6,150	375	4,200	325	1,950	225
Political scientists	2,100	225	1,350	200	750	150	100	50	D	D	100	50	300	125	150	50	S	S	1,650	200	1,150	200	500	100
Postsecondary teachers, economics	10,200	475	7,300	425	2,900	275	1,950	250	1,300	225	650	125	1,300	200	850	150	400	125	6,950	425	5,150	400	1,800	200
Postsecondary teachers, political science	9,700	500	6,050	425	3,650	300	1,300	225	750	200	550	150	1,350	175	850	150	500	100	7,050	475	4,400	350	2,650	250
Postsecondary teachers, sociology	7,450	375	3,300	275	4,150	300	900	200	450	150	450	150	1,550	175	700	150	850	125	5,000	300	2,100	225	2,850	225

TABLE 37

## U.S. residing employed doctoral scientists and engineers, by occupation, ethnicity, race, and sex: 2023

(Number and SE)

Occupation	All employed						Asian <sup>a</sup>						Other minority <sup>b</sup>						White <sup>c</sup>					
	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	16,450	600	7,000	425	9,450	400	1,800	225	800	175	950	175	2,750	225	1,150	150	1,600	150	11,900	475	5,000	350	6,900	325
Sociologists, anthropologists	3,950	275	1,700	200	2,300	225	400	125	50	25	350	125	600	75	200	75	400	75	3,000	250	1,450	200	1,550	175
Other social scientists	11,200	500	3,800	325	7,400	375	1,400	200	500	125	900	150	1,950	175	550	125	1,350	150	7,850	450	2,750	275	5,100	325
Engineering occupations	127,550	1,600	105,450	1,550	22,100	600	52,400	1,100	43,200	1,075	9,150	450	10,400	375	7,950	350	2,450	175	64,750	1,125	54,300	1,100	10,450	400
Aerospace, aeronautical, astronautical engineers	7,500	425	6,500	400	1,000	125	1,550	200	1,300	200	250	75	850	125	750	125	100	50	5,100	350	4,450	350	650	125
Chemical engineers	8,050	500	6,350	450	1,700	250	3,450	325	2,800	325	600	150	600	125	450	100	150	50	4,000	375	3,050	300	950	200
Civil, architectural, sanitary engineers	7,800	500	6,650	475	1,150	150	3,000	375	2,500	350	500	100	750	125	650	125	100	50	4,100	350	3,550	350	550	100
Electrical engineers	29,900	1,000	26,100	975	3,750	300	15,000	675	12,800	650	2,200	250	2,300	225	1,950	225	400	75	12,550	650	11,350	625	1,200	150
Industrial engineers	1,300	225	900	225	400	100	300	100	150	50	150	75	250	75	150	50	100	50	750	200	600	200	150	50
Mechanical engineers	13,050	725	11,550	725	1,450	175	6,450	600	5,750	575	700	150	750	125	650	125	150	50	5,800	450	5,200	450	650	100
Postsecondary teachers, engineering	24,750	850	19,650	775	5,100	300	8,150	550	6,650	525	1,500	200	2,200	200	1,650	200	600	100	14,400	625	11,350	600	3,050	225
Other engineers	35,300	1,075	27,800	1,000	7,550	400	14,550	750	11,250	700	3,300	300	2,650	150	1,750	125	900	100	18,100	700	14,800	675	3,300	250
S&E-related occupations	135,450	1,825	63,450	1,450	72,000	1,175	26,500	1,000	15,100	775	11,450	575	18,050	550	7,100	400	10,900	400	90,900	1,525	41,250	1,100	49,650	1,025
Health occupations, except postsecondary teachers and managers	72,400	1,300	27,550	900	44,850	1,050	10,750	550	5,100	400	5,650	400	10,750	450	3,500	300	7,250	350	50,900	1,175	18,950	800	31,950	875
Postsecondary teachers, health and related science	19,900	725	7,800	550	12,150	475	3,500	375	1,600	275	1,950	250	2,650	200	850	125	1,800	175	13,700	600	5,350	475	8,400	400
S&E managers, including health	33,200	1,050	21,400	825	11,800	550	9,800	675	6,550	550	3,250	375	3,450	300	1,950	200	1,500	175	19,950	675	12,900	550	7,050	400
S&E precollege teachers	4,500	375	2,200	300	2,300	225	350	100	200	100	150	75	700	175	400	125	300	100	3,400	300	1,600	225	1,850	225
S&E technicians and technologists	4,550	400	3,850	375	650	125	1,600	275	1,300	250	300	75	400	100	400	100	*	*	2,500	275	2,200	250	350	100
Other S&E-related occupations	950	175	700	175	250	75	500	150	350	125	150	50	100	50	S	S	D	D	350	125	300	125	S	S
Non-S&E occupations	156,400	2,025	85,100	1,575	71,300	1,375	30,250	975	17,800	825	12,450	575	20,550	525	9,050	350	11,500	400	105,600	1,650	58,250	1,275	47,350	1,150
Arts, humanities-related occupations	9,950	475	3,550	325	6,400	375	1,050	175	350	100	700	150	950	100	300	50	650	100	7,950	425	2,900	325	5,050	350
Management-related occupations	35,000	1,025	17,850	775	17,150	625	9,000	525	4,900	425	4,100	325	4,900	325	2,050	200	2,850	250	21,050	825	10,850	575	10,200	550
Non-S&E managers	55,600	1,275	35,100	1,025	20,500	800	11,000	650	7,700	550	3,350	350	6,750	350	3,550	250	3,200	200	37,800	1,025	23,900	850	13,900	575
Non-S&E postsecondary teachers	19,500	725	10,200	525	9,350	475	3,500	300	1,900	250	1,650	225	3,150	250	1,350	150	1,800	175	12,800	575	6,950	450	5,900	375
Non-S&E precollege and other teachers	5,450	400	1,800	225	3,650	325	900	150	250	75	650	150	800	150	200	75	600	150	3,750	350	1,400	225	2,400	275
Sales, marketing occupations	6,950	450	4,150	350	2,850	250	1,650	250	1,050	225	600	125	800	125	350	100	400	100	4,550	350	2,700	275	1,850	200
Social service-related occupations	7,750	475	3,050	325	4,700	375	600	150	350	125	250	100	1,400	150	400	75	1,000	125	5,800	450	2,350	325	3,400	350
Other non-S&E occupations	16,200	675	9,450	575	6,750	350	2,550	325	1,350	250	1,150	200	1,800	175	850	125	950	100	11,850	600	7,200	550	4,650	275

\* = suppressed when population estimate < 25. 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.

<sup>a</sup> Asian is single race.

<sup>b</sup> Other minority includes Hispanic or Latino ethnicity, more than one race, and the following racial categories (all single race): American Indian or Alaska Native, Black or African American, and Native Hawaiian or Other Pacific Islander. Detail for Other minority can be found in table 38.

<sup>c</sup> 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 2023.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.