TABLE 38

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

(Number and SE)

Occupation	All employed minority[a]						Hispanic or Latino[b]						Not Hispanic or Latino[c]															
													American Indian or Alaska Native						Black or African American						Native Hawaiian or Other Pacific Islander					
	Total		Male		Female		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	Number	SE	Number	SE	Number	SE
All occupations	89,300	875	47,700	725	41,600	600	40,100	475	22,600	425	17,500	325	1,400	125	650	100	700	100	31,800	475	15,700	375	16,100	400	900	125	450	75	500	125
Science occupations	50,850	875	26,450	600	24,400	600	24,250	500	13,000	350	11,250	350	700	100	300	75	400	75	16,650	475	8,150	325	8,500	400	500	125	200	50	300	100
Biological, agricultural, and other life scientists	16,050	550	8,100	375	7,950	325	8,050	325	4,050	225	4,000	225	150	50	100	50	50	50	4,600	300	2,250	175	2,350	200	200	50	100	50	100	50
Agricultural, food scientists	1,550	125	1,050	100	500	75	850	125	550	100	300	50	D	D	D	D	D	D	500	75	400	75	150	50	D	D	D	D	D	D
Biochemists, biophysicists	1,300	150	800	150	500	100	700	125	400	100	300	75	D	D	D	D	D	D	250	100	100	75	150	75	D	D	D	D	D	D
Biological scientists	2,800	225	1,350	175	1,450	175	1,550	175	700	100	850	150	50	25	D	D	D	D	650	125	350	75	300	100	S	S	D	D	D	D
Forestry, conservation scientists	200	75	100	50	100	50	150	75	50	25	S	S	D	D	D	D	D	D	*	*	D	D	*	*	D	D	D	D	D	D
Medical scientists	3,950	300	1,750	175	2,200	200	1,700	150	850	125	850	100	50	25	50	25	D	D	1,200	150	350	75	800	125	100	50	D	D	D	D
Postsecondary teachers, agricultural, other natural sciences	600	100	400	75	200	50	250	50	150	50	100	25	D	D	D	D	D	D	300	75	200	75	100	50	D	D	D	D	D	D
Postsecondary teachers, biological sciences	3,200	200	1,550	175	1,650	150	1,600	125	700	100	850	100	S	S	D	D	D	D	850	125	450	100	400	100	S	S	D	D	D	D
Other biological, agricultural, life scientists	2,500	225	1,150	150	1,350	150	1,250	150	600	125	650	100	D	D	D	D	D	D	800	150	400	75	450	125	D	D	D	D	D	D
Computer and information scientists	4,100	300	3,150	275	950	125	1,800	150	1,450	125	350	75	D	D	D	D	D	D	1,050	125	750	100	350	75	50	25	50	25	D	D
Computer and information scientists	3,200	275	2,550	250	700	100	1,450	150	1,200	125	250	50	D	D	D	D	D	D	750	125	550	100	200	75	S	S	*	*	D	D
Postsecondary teachers, computer science	900	125	650	125	250	75	350	75	250	75	100	50	D	D	D	D	D	D	300	75	200	50	150	50	D	D	D	D	D	D
Mathematical scientists	3,950	225	2,850	175	1,150	125	2,050	175	1,500	125	550	125	*	*	D	D	D	D	1,200	125	850	100	350	50	S	S	D	D	D	D
Mathematical scientists	2,200	175	1,500	150	700	125	1,100	150	800	125	350	100	D	D	D	D	D	D	600	75	350	75	200	50	D	D	D	D	D	D
Postsecondary teachers, mathematics, statistics	1,800	150	1,350	125	450	75	950	100	700	100	250	50	D	D	D	D	D	D	650	100	500	100	150	50	D	D	D	D	D	D
Physical scientists	7,100	325	4,650	250	2,400	200	3,400	175	2,300	175	1,100	100	50	50	50	25	D	D	2,200	175	1,500	150	700	100	S	S	D	D	D	D
Chemists, except biochemists	1,850	200	1,000	125	850	150	800	100	450	75	350	75	50	25	D	D	D	D	600	100	300	75	300	75	D	D	D	D	D	D
Earth, atmospheric, ocean scientists	800	75	500	75	300	75	400	50	250	50	200	50	D	D	D	D	D	D	150	50	100	25	50	25	D	D	D	D	D	D
Physicists, astronomers	700	100	500	100	150	50	350	75	300	75	50	50	D	D	D	D	D	D	100	50	100	50	S	S	D	D	D	D	D	D
Postsecondary teachers, chemistry	1,800	175	1,150	150	600	100	750	100	500	100	300	75	D	D	D	D	D	D	850	125	600	125	250	75	D	D	D	D	D	D
Postsecondary teachers, physics	900	150	800	125	150	50	550	125	500	125	50	25	D	D	D	D	D	D	200	50	200	50	D	D	D	D	D	D	D	D
Postsecondary teachers, other physical science	600	75	350	75	250	50	350	75	200	50	150	50	D	D	D	D	D	D	100	50	100	50	50	25	D	D	D	D	D	D
Other physical scientists	450	125	350	125	S	S	150	50	150	50	*	*	D	D	D	D	D	D	100	50	100	50	*	*	D	D	D	D	D	D
Psychologists	9,750	350	2,550	225	7,200	300	4,400	225	1,250	150	3,100	200	200	50	D	D	200	50	3,600	300	800	125	2,850	275	S	S	D	D	S	S
Psychologists	7,050	350	1,600	200	5,450	300	3,200	225	750	125	2,400	200	150	50	D	D	150	50	2,550	275	500	125	2,100	250	D	D	D	D	D	D

TABLE 38

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

(Number and SE)

Occupation	All employed minority[a]						Hispanic or Latino[b]						Not Hispanic or Latino[c]																	
													American Indian or Alaska Native						Black or African American						Native Hawaiian or Other Pacific Islander					
	Total		Male		Female		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	Number	SE	Number	SE	Number	SE
Postsecondary teachers, psychology	2,700	225	1,000	125	1,750	150	1,200	150	500	100	700	125	50	25	D	D	50	25	1,050	150	300	75	750	150	*	*	D	D	D	D
Social scientists	9,850	425	5,100	325	4,750	250	4,600	300	2,450	225	2,150	200	200	50	100	50	100	50	3,950	225	2,000	200	1,950	150	50	25	D	D	D	D
Economists	1,400	175	1,000	150	400	100	900	150	650	100	200	100	D	D	D	D	D	D	350	75	200	75	150	50	D	D	D	D	D	D
Political scientists	350	125	150	50	S	S	200	125	100	50	S	S	D	D	D	D	D	D	100	50	50	50	50	25	D	D	D	D	D	D
Postsecondary teachers, economics	950	100	700	100	250	50	500	75	300	75	200	50	D	D	D	D	D	D	450	75	400	75	50	25	D	D	D	D	D	D
Postsecondary teachers, political science	1,250	175	750	150	500	150	450	125	250	75	200	100	D	D	D	D	D	D	650	125	450	125	200	75	D	D	D	D	D	D
Postsecondary teachers, sociology	1,500	175	800	175	750	100	650	125	400	125	250	50	D	D	D	D	D	D	650	150	300	125	350	75	D	D	D	D	D	D
Postsecondary teachers, other social sciences	2,300	175	950	100	1,350	125	1,100	125	450	75	650	100	100	50	D	D	50	25	850	100	350	75	500	75	D	D	D	D	D	D
Sociologists, anthropologists	500	75	200	50	350	75	200	50	50	25	150	50	D	D	D	D	D	D	250	75	100	50	150	50	D	D	D	D	D	D
Other social scientists	1,550	175	550	100	1,000	125	650	125	300	100	350	75	D	D	D	D	D	D	650	100	150	50	500	100	D	D	D	D	D	D
Engineering occupations	9,800	375	7,600	350	2,200	175	4,800	225	3,800	225	1,000	100	100	50	100	50	D	D	3,100	225	2,300	175	800	125	100	50	100	50	D	D
Aerospace, aeronautical, astronautical engineers	650	100	600	100	50	25	450	75	400	75	50	25	D	D	D	D	D	D	100	50	100	50	D	D	D	D	D	D	D	D
Chemical engineers	750	125	550	100	150	50	300	75	250	50	100	50	D	D	D	D	D	D	300	75	200	75	100	25	D	D	D	D	D	D
Civil, architectural, sanitary engineers	600	100	500	75	100	50	250	50	200	50	50	25	D	D	D	D	D	D	300	75	250	75	D	D	D	D	D	D	D	D
Electrical engineers	1,800	200	1,500	175	300	100	750	100	650	100	150	50	D	D	D	D	D	D	550	100	500	75	D	D	D	D	D	D	D	D
Industrial engineers	200	50	150	50	100	50	100	50	100	50	50	25	D	D	D	D	D	D	50	25	S	S	D	D	D	D	D	D	D	D
Mechanical engineers	750	100	550	100	200	75	400	75	350	75	50	25	D	D	D	D	D	D	150	50	100	25	S	S	D	D	D	D	D	D
Postsecondary teachers, engineering	2,650	225	2,050	200	600	100	1,300	125	1,050	125	250	50	50	25	50	25	D	D	900	125	600	100	300	75	D	D	D	D	D	D
Other engineers	2,450	175	1,700	150	750	100	1,250	125	850	100	350	75	S	S	*	*	D	D	700	100	500	100	200	50	S	S	D	D	D	D
S&E-related occupations	10,750	400	4,850	275	5,900	300	4,050	250	2,100	175	1,950	175	200	75	100	50	100	50	4,750	325	1,750	200	3,000	250	150	75	S	S	100	50
Health occupations, except postsecondary teachers and managers	3,750	250	1,650	150	2,100	200	1,300	125	600	100	700	100	S	S	S	S	D	D	1,650	200	700	125	1,000	175	S	S	D	D	S	S
Postsecondary teachers, health and related science	2,900	225	750	125	2,100	200	850	125	350	100	500	75	100	50	D	D	50	50	1,700	175	300	75	1,350	175	D	D	D	D	D	D
S&E managers, including health	2,500	225	1,500	200	1,000	150	1,200	150	700	125	500	100	50	25	50	25	D	D	800	125	450	100	300	100	50	25	D	D	D	D
S&E precollege teachers	800	125	350	75	500	100	350	75	150	50	200	75	D	D	D	D	D	D	400	75	150	75	250	75	D	D	D	D	D	D
S&E technicians/ technologists	750	125	550	100	200	50	350	75	250	50	100	50	D	D	D	D	D	D	200	75	150	75	S	S	D	D	D	D	D	D
Other S&E-related occupations	50	25	50	25	D	D	*	*	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E occupations	17,900	575	8,800	400	9,100	375	7,000	325	3,750	250	3,300	225	400	100	150	75	200	75	7,300	300	3,450	250	3,850	225	150	50	50	50	100	25
Arts, humanities-related occupations	1,000	150	300	75	700	150	300	75	100	75	200	50	D	D	D	D	D	D	300	75	100	50	200	75	D	D	D	D	D	D
Management-related occupations	3,700	300	1,700	225	2,000	175	1,300	125	750	125	600	75	D	D	D	D	D	D	1,500	175	650	125	850	125	D	D	D	D	D	D

TABLE 38

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

(Number and SE)

Occupation	All employed minority[a]						Hispanic or Latino[b]						Not Hispanic or Latino[c]															
													American Indian or Alaska Native						Black or African American						Native Hawaiian or Other Pacific Islander					
	Total		Male		Female		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	Number	SE	Number	SE	Number	SE
Non-S&E managers	6,400	300	3,600	250	2,800	200	2,600	200	1,600	175	1,000	125	150	50	100	50	50	50	2,850	225	1,400	175	1,450	150	50	25	D	D	50	25
Non-S&E postsecondary teachers	2,750	225	1,400	150	1,350	175	1,400	175	700	100	700	150	S	S	D	D	S	S	950	125	500	100	450	75	D	D	D	D	D	D
Non-S&E precollege/ other teachers	550	125	200	75	350	100	150	50	50	25	150	50	D	D	D	D	D	D	250	100	100	50	150	75	D	D	D	D	D	D
Sales, marketing occupations	800	125	400	75	400	75	300	75	200	75	100	50	D	D	D	D	D	D	250	75	100	50	100	50	D	D	D	D	D	D
Social service-related occupations	1,200	150	400	100	800	125	350	75	100	50	250	75	D	D	D	D	D	D	700	100	300	100	450	75	D	D	D	D	D	D
Other non-S&E occupations	1,550	200	850	150	700	125	550	75	250	75	300	50	S	S	D	D	S	S	550	100	350	100	200	50	D	D	D	D	D	D

* = 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.

[a] In this table, all employed minorities 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 (data not shown). Because of the large number of Asians among the doctoral population, they are shown separately in table 37.

[b] Hispanic or Latino may be of any race.

[c] American Indian or Alaska Native, Black or African American, and Native Hawaiian or Other Pacific Islander are 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.