

TABLE 38

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

(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	101,150	950	52,650	800	48,450	700	47,400	700	25,850	500	21,500	525	1,750	175	850	125	900	125	36,050	500	17,750	475	18,300	500	1,150	100	450	100	700	125
Science occupations	52,150	750	28,550	575	23,600	550	26,100	550	14,700	400	11,400	400	800	100	350	100	450	75	16,650	400	8,950	325	7,700	325	450	100	200	75	250	75
Biological, agricultural, and other life scientists	18,750	525	9,150	425	9,550	350	9,850	400	4,950	300	4,900	250	250	100	S	S	100	50	5,200	275	2,500	225	2,750	200	200	75	100	50	100	50
Agricultural, food scientists	1,700	150	1,000	125	700	100	1,000	125	500	100	500	75	D	D	D	D	D	D	550	75	450	75	150	50	D	D	D	D	D	D
Biochemists, biophysicists	1,500	175	1,000	175	550	100	950	150	650	150	300	75	D	D	D	D	D	D	200	50	100	50	100	50	D	D	D	D	D	D
Biological scientists	3,600	225	1,750	175	1,850	175	2,050	175	950	125	1,050	125	S	S	D	D	D	D	850	125	450	125	400	75	S	S	D	D	S	S
Forestry, conservation scientists	300	100	200	100	100	50	150	50	100	50	50	25	D	D	D	D	D	D	50	25	*	*	D	D	D	D	D	D	D	D
Medical scientists	5,150	375	2,300	275	2,850	225	2,250	250	1,100	200	1,200	125	50	50	D	D	D	D	1,750	175	800	150	950	125	S	S	D	D	D	D
Postsecondary teachers, agricultural, other natural sciences	500	75	300	75	200	50	250	50	150	50	100	50	D	D	D	D	D	D	200	50	100	50	100	25	D	D	D	D	D	D
Postsecondary teachers, biological sciences	3,400	250	1,550	175	1,900	175	1,700	150	800	100	900	125	50	25	D	D	50	25	950	150	350	75	600	150	D	D	D	D	D	D
Other biological, agricultural, life scientists	2,550	175	1,100	125	1,450	150	1,450	150	650	100	800	100	D	D	D	D	D	D	650	100	200	75	400	100	D	D	D	D	D	D
Computer and information scientists	4,700	275	3,550	250	1,200	150	2,300	175	1,750	150	550	125	S	S	D	D	D	D	1,400	175	1,000	125	400	100	S	S	D	D	D	D
Computer and information scientists	3,750	225	2,900	200	850	125	1,900	175	1,450	150	450	125	S	S	D	D	D	D	1,000	150	800	125	200	50	D	D	D	D	D	D
Postsecondary teachers, computer science	950	150	600	150	350	100	350	100	300	75	100	25	D	D	D	D	D	D	450	100	200	50	200	100	D	D	D	D	D	D
Mathematical scientists	4,450	250	3,100	225	1,350	125	2,300	200	1,750	175	550	100	D	D	D	D	D	D	1,450	150	900	100	550	100	S	S	D	D	D	D
Mathematical scientists	2,500	200	1,600	150	900	125	1,150	125	800	125	350	75	D	D	D	D	D	D	800	125	450	75	350	100	S	S	D	D	D	D
Postsecondary teachers, mathematics, statistics	1,950	175	1,500	175	500	75	1,150	150	950	125	200	50	D	D	D	D	D	D	650	100	450	100	200	50	D	D	D	D	D	D
Physical scientists	8,150	375	5,350	300	2,800	225	3,800	250	2,450	225	1,400	150	100	25	50	25	50	25	2,850	225	2,000	175	900	150	50	25	D	D	S	S
Chemists, except biochemists	2,000	150	1,200	125	800	125	800	100	550	75	300	75	50	25	D	D	D	D	850	125	450	75	400	100	D	D	D	D	D	D
Earth, atmospheric, ocean scientists	1,100	100	700	100	450	75	600	75	350	75	250	50	*	*	*	*	D	D	250	50	200	50	100	50	D	D	D	D	D	D
Physicists, astronomers	1,150	200	800	150	350	125	650	150	550	150	100	50	D	D	D	D	D	D	250	125	100	50	S	S	D	D	D	D	D	D
Postsecondary teachers, chemistry	1,900	200	1,150	150	750	150	750	150	300	75	450	125	D	D	D	D	D	D	950	150	750	150	200	50	D	D	D	D	D	D
Postsecondary teachers, physics	750	125	650	100	100	50	350	75	300	75	50	25	D	D	D	D	D	D	250	75	250	75	D	D	D	D	D	D	D	D
Postsecondary teachers, other physical science	750	100	450	100	300	50	350	75	200	50	200	50	D	D	D	D	D	D	200	75	200	75	50	25	D	D	D	D	D	D
Other physical scientists	450	100	350	100	100	50	250	75	150	50	50	25	D	D	D	D	D	D	100	50	100	50	D	D	D	D	D	D	D	D
Psychologists	4,900	300	1,850	225	3,050	225	2,350	225	1,050	175	1,300	150	100	50	D	D	100	50	1,600	175	450	100	1,150	125	S	S	D	D	D	D
Psychologists	2,100	225	700	175	1,400	175	1,050	175	350	125	700	125	D	D	D	D	D	D	650	125	200	75	450	100	D	D	D	D	D	D
Postsecondary teachers, psychology	2,800	250	1,150	175	1,650	175	1,250	175	700	150	600	100	100	50	D	D	100	50	950	150	250	75	700	125	D	D	D	D	D	D
Social scientists	11,150	425	5,550	300	5,600	300	5,550	300	2,800	200	2,700	225	300	75	150	50	150	50	4,100	250	2,100	225	2,000	175	D	D	D	D	D	D
Economists	1,350	150	1,000	150	350	75	900	125	750	125	150	50	D	D	D	D	D	D	350	100	200	75	150	50	D	D	D	D	D	D
Political scientists	300	125	150	50	S	S	250	125	100	50	S	S	D	D	D	D	D	D	S	S	D	D	D	D	D	D	D	D	D	D
Postsecondary teachers, economics	1,300	200	850	150	400	125	700	150	350	75	350	125	D	D	D	D	D	D	450	100	400	100	50	50	D	D	D	D	D	D
Postsecondary teachers, political science	1,350	175	850	150	500	100	600	125	350	100	250	75	D	D	D	D	D	D	600	125	450	125	150	50	D	D	D	D	D	D

TABLE 38

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

(Number and SE)

Occupation	All employed minority ^a						Hispanic or Latino ^b						Not Hispanic or Latino ^c																	
	Total		Male		Female		Total		Male		Female		American Indian or Alaska Native				Black or African American				Native Hawaiian or Other Pacific Islander									
	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, sociology	1,550	175	700	150	850	125	650	100	350	100	300	75	D	D	D	D	D	D	700	150	300	125	350	75	D	D	D	D	D	D
Postsecondary teachers, other social sciences	2,750	225	1,150	150	1,600	150	1,400	175	650	100	750	125	100	50	D	D	50	25	950	150	400	100	600	100	D	D	D	D	D	D
Sociologists, anthropologists	600	75	200	75	400	75	300	75	100	50	200	50	D	D	D	D	D	D	150	50	S	S	150	50	D	D	D	D	D	D
Other social scientists	1,950	175	550	125	1,350	150	750	125	200	50	550	100	100	50	D	D	50	25	850	125	300	100	550	75	D	D	D	D	D	D
Engineering occupations	10,400	375	7,950	350	2,450	175	5,550	250	4,300	225	1,250	125	100	50	100	50	D	D	3,350	225	2,550	200	750	125	S	S	D	D	D	D
Aerospace, aeronautical, astronautical engineers	850	125	750	125	100	50	500	100	450	100	50	25	D	D	D	D	D	D	250	75	200	75	S	S	D	D	D	D	D	D
Chemical engineers	600	125	450	100	150	50	350	75	250	75	100	50	D	D	D	D	D	D	200	75	150	75	50	25	D	D	D	D	D	D
Civil, architectural, sanitary engineers	750	125	650	125	100	50	300	75	200	50	100	50	D	D	D	D	D	D	400	100	400	100	S	S	D	D	D	D	D	D
Electrical engineers	2,300	225	1,950	225	400	75	1,000	125	800	125	150	50	D	D	D	D	D	D	750	125	650	125	100	50	D	D	D	D	D	D
Industrial engineers	250	75	150	50	100	50	150	50	100	50	50	25	D	D	D	D	D	D	50	25	50	25	D	D	D	D	D	D	D	D
Mechanical engineers	750	125	650	125	150	50	400	75	350	75	50	25	D	D	D	D	D	D	250	75	200	75	D	D	D	D	D	D	D	D
Postsecondary teachers, engineering	2,200	200	1,650	200	600	100	1,350	150	1,050	150	300	75	D	D	D	D	D	D	700	125	450	100	250	75	D	D	D	D	D	D
Other engineers	2,650	150	1,750	125	900	100	1,550	125	1,050	100	500	100	*	*	*	*	D	D	750	100	450	100	250	50	D	D	D	D	D	D
S&E-related occupations	18,050	550	7,100	400	10,900	400	7,950	350	3,250	250	4,650	250	350	75	150	50	200	75	7,000	375	2,550	250	4,450	325	300	100	100	50	200	100
Health occupations, except postsecondary teachers and managers	10,750	450	3,500	300	7,250	350	4,850	300	1,600	175	3,250	250	150	50	S	S	150	50	4,150	300	1,250	175	2,900	275	250	100	50	50	D	D
Postsecondary teachers, health and related science	2,650	200	850	125	1,800	175	1,000	150	500	125	500	75	S	S	D	D	D	D	1,250	150	250	75	1,000	125	D	D	D	D	D	D
S&E managers, including health	3,450	300	1,950	200	1,500	175	1,550	175	850	125	750	125	100	50	50	25	D	D	1,250	175	800	150	450	100	D	D	D	D	D	D
S&E precollege teachers	700	175	400	125	300	100	300	75	100	50	150	75	D	D	D	D	D	D	200	50	100	50	100	50	D	D	D	D	D	D
S&E technicians and technologists	400	100	400	100	*	*	200	75	200	75	D	D	D	D	D	D	D	D	100	75	D	D	D	D	D	D	D	D	D	D
Other S&E-related occupations	100	50	S	S	D	D	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	20,550	525	9,050	350	11,500	400	7,800	325	3,600	225	4,150	225	450	100	250	75	200	75	9,050	400	3,700	250	5,350	325	350	100	150	75	200	75
Arts, humanities-related occupations	950	100	300	50	650	100	400	75	150	50	250	75	D	D	D	D	D	D	350	75	100	25	250	75	D	D	D	D	D	D
Management-related occupations	4,900	325	2,050	200	2,850	250	1,900	200	750	125	1,150	150	100	50	D	D	D	D	2,150	225	900	125	1,250	175	D	D	D	D	D	D
Non-S&E managers	6,750	350	3,550	250	3,200	200	2,400	200	1,450	150	1,000	100	150	75	100	75	50	25	3,100	275	1,350	175	1,750	200	150	75	D	D	100	50
Non-S&E postsecondary teachers	3,150	250	1,350	150	1,800	175	1,400	150	700	100	750	100	S	S	D	D	50	25	1,300	200	550	100	750	150	D	D	D	D	D	D
Non-S&E precollege and other teachers	800	150	200	75	600	150	250	75	50	25	200	75	D	D	D	D	D	D	350	125	100	50	300	125	D	D	D	D	D	D
Sales, marketing occupations	800	125	350	100	400	100	250	75	150	50	100	50	D	D	D	D	D	D	300	75	150	75	150	50	D	D	D	D	D	D
Social service-related occupations	1,400	150	400	75	1,000	125	400	75	100	50	300	75	50	25	D	D	D	D	800	125	250	50	550	125	D	D	D	D	D	D
Other non-S&E occupations	1,800	175	850	125	950	100	700	100	300	75	400	75	D	D	D	D	D	D	700	125	350	100	350	75	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 minority includes Hispanic or Latino ethnicity, more than one race (data not shown), and the following racial categories (all single race): American Indian or Alaska Native, Black or African American, and Native Hawaiian or Other Pacific Islander. 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 2023.

Source(s):

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