

TABLE 39

**U.S. residing employed doctoral scientists and engineers, by occupation and citizenship status: 2019**

(Number and SE)

Occupation	All employed		U.S. citizen						Non-U.S. citizen					
			Total		Native born		Naturalized		Total		Permanent resident		Temporary resident	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All occupations	857,200	1,975	732,750	2,000	555,150	1,575	177,600	1,675	124,450	1,600	87,200	1,475	37,300	900
Science occupations	492,750	2,500	418,050	2,275	330,150	2,000	87,900	1,450	74,700	1,500	50,800	1,225	23,950	750
Biological, agricultural, and other life scientist	156,650	1,525	132,250	1,425	105,400	1,275	26,850	775	24,400	775	15,600	650	8,800	450
Agricultural, food scientist	11,600	450	9,500	400	7,350	375	2,200	225	2,100	225	1,450	200	650	100
Biochemists, biophysicist	16,350	675	12,150	650	9,050	500	3,100	325	4,200	350	2,200	250	2,000	275
Biological scientist	26,750	675	22,800	575	18,750	475	4,050	350	3,950	325	2,350	275	1,650	200
Forestry, conservation scientist	2,250	175	2,150	175	2,000	175	150	50	100	50	S	S	S	S
Medical scientist	42,350	1,025	35,800	925	27,300	725	8,500	525	6,550	450	4,450	350	2,150	275
Postsecondary teachers, agricultural, other natural sciences	5,550	350	4,900	350	4,050	300	850	150	650	150	550	125	150	50
Postsecondary teachers, biological sciences	32,400	775	30,100	750	26,050	700	4,050	300	2,300	300	1,900	275	400	100
Other biological, agricultural, life scientist	19,350	700	14,850	550	10,800	500	4,050	300	4,500	375	2,750	300	1,750	275
Computer and information scientist	63,000	1,100	44,800	875	26,000	650	18,800	625	18,200	725	12,500	625	5,700	375
Computer and information scientist	53,450	1,075	37,350	850	21,750	650	15,600	550	16,100	725	10,950	625	5,150	375
Postsecondary teachers, computer science	9,550	525	7,450	450	4,250	300	3,150	350	2,100	275	1,600	250	550	100
Mathematical scientist	41,400	750	30,800	775	20,250	575	10,550	550	10,600	475	7,050	425	3,550	300
Mathematical scientist	21,800	650	14,900	575	9,200	425	5,750	425	6,900	450	4,400	350	2,550	275
Postsecondary teachers, mathematics, statistics	19,600	575	15,900	525	11,100	400	4,800	350	3,700	300	2,700	275	1,000	175
Physical scientist	84,550	1,275	72,350	1,100	57,950	975	14,400	550	12,200	675	8,900	550	3,300	325
Chemists, except biochemist	21,850	725	18,200	625	13,750	525	4,400	350	3,650	350	2,400	300	1,250	225
Earth, atmospheric, ocean scientist	11,750	400	9,900	350	8,350	350	1,550	150	1,900	200	1,300	175	600	100
Physicists, astronomers	12,450	625	10,250	550	8,150	450	2,100	250	2,200	300	1,500	250	700	150
Postsecondary teachers, chemistry	16,900	625	15,000	550	12,500	525	2,500	300	1,950	225	1,600	225	300	75
Postsecondary teachers, physics	10,650	575	9,250	525	6,900	450	2,350	275	1,400	225	1,200	200	200	100

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Postsecondary teachers, other physical science	7,300	300	6,450	275	5,650	275	800	100	850	150	650	100	200	100
Other physical scientist	3,650	250	3,350	250	2,600	225	700	125	300	75	250	75	50	25
Psychologist	77,600	950	75,700	975	68,850	975	6,850	450	1,950	250	1,550	225	400	125
Psychologist	57,500	1,000	56,450	1,000	51,700	975	4,750	400	1,050	175	850	150	200	100
Postsecondary teachers, psychology	20,100	625	19,250	625	17,200	550	2,050	300	850	200	700	175	150	100
Social scientist	69,500	1,025	62,150	1,025	51,700	800	10,500	575	7,350	450	5,150	375	2,200	250
Economist	9,600	500	7,100	425	5,250	325	1,850	250	2,500	275	1,500	200	1,000	200
Political scientist	1,850	275	1,700	275	1,450	225	S	S	150	75	150	75	D	D
Postsecondary teachers, economics	10,900	500	9,300	450	6,850	375	2,450	225	1,600	225	1,000	175	600	125
Postsecondary teachers, political science	11,450	450	10,600	450	9,000	450	1,600	250	800	175	650	150	200	75
Postsecondary teachers, sociology	7,500	350	7,100	325	6,050	325	1,050	200	450	125	350	100	S	S
Postsecondary teachers, other social sciences	16,550	575	15,250	600	13,250	550	2,000	200	1,300	175	1,100	150	200	75
Sociologist, anthropologist	3,500	275	3,400	275	3,000	250	400	150	100	50	50	50	D	D
Other social scientist	8,250	475	7,750	450	6,800	400	950	150	450	100	300	100	150	75
Engineering occupations	120,650	1,375	90,550	1,350	52,850	1,050	37,650	900	30,100	900	21,100	800	9,050	475
Aerospace, aeronautical, astronautical engineer	7,150	425	6,400	425	4,400	350	2,000	300	750	150	500	125	250	100
Chemical engineer	9,250	525	6,700	450	4,150	350	2,550	300	2,600	300	1,700	275	850	175
Civil, architectural, sanitary engineer	6,900	425	5,000	375	2,450	275	2,550	300	1,900	250	1,250	200	650	125
Electrical engineer	27,500	750	18,550	725	9,850	475	8,650	600	8,950	525	6,500	450	2,450	275
Industrial engineers	1,950	250	1,550	225	900	150	650	150	400	125	300	125	100	50
Mechanical engineer	13,450	550	10,050	500	5,300	300	4,750	375	3,400	300	2,100	225	1,300	225
Postsecondary teacher, engineering	23,950	750	19,150	675	10,850	500	8,300	525	4,800	400	3,450	350	1,350	200
Other engineer	30,500	675	23,150	625	15,000	550	8,150	400	7,350	450	5,250	425	2,100	225
S&E-related occupations	92,350	1,475	83,500	1,400	62,300	1,125	21,200	800	8,850	475	6,750	375	2,100	275
Health occupations, except postsecondary teachers and managers	30,800	825	28,050	800	20,750	650	7,300	475	2,750	300	2,000	225	750	200

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Postsecondary teacher, health and related science	23,600	675	21,850	650	18,150	575	3,650	250	1,750	175	1,400	175	350	100
S&E managers, including health	24,650	850	22,250	825	15,650	625	6,600	525	2,350	275	2,000	275	400	100
S&E precollege teachers	5,200	400	5,000	375	4,100	350	950	175	200	75	100	50	D	D
S&E technicians/technologists	7,200	475	5,700	400	3,300	300	2,350	300	1,500	225	1,000	175	550	150
Other S&E-related occupation	900	150	650	125	300	100	350	75	300	125	250	125	D	D
Non-S&E occupations	151,500	1,650	140,700	1,600	109,900	1,375	30,850	875	10,800	650	8,550	575	2,250	250
Arts, humanities-related occupation	8,900	425	8,300	425	7,450	400	800	150	600	150	450	125	150	75
Management-related occupation	33,050	1,175	30,100	1,100	22,500	900	7,600	525	2,950	350	2,250	325	700	150
Non-S&E managers	55,650	1,175	52,850	1,150	40,450	925	12,450	625	2,800	300	2,300	275	500	125
Non-S&E postsecondary teachers	19,700	650	17,300	600	13,900	550	3,400	300	2,400	300	1,900	275	500	100
Non-S&E precollege/other teachers	4,750	375	4,450	350	3,750	300	700	150	300	100	200	100	S	S
Sales, marketing occupation	9,400	450	8,550	400	6,150	350	2,450	275	800	175	750	150	100	50
Social service-related occupation	6,300	400	6,150	400	5,250	350	850	175	200	100	150	75	D	D
Other non-S&E occupation	13,750	650	13,000	625	10,450	575	2,550	300	750	175	600	175	150	75

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;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. 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.