

TABLE 44

**U.S. residing employed doctoral scientists and engineers, by sector of employment, broad occupation, ethnicity, and race: 2019**

(Number and SE)

Employment sector and occupation	All employed		Hispanic or Latino <sup>a</sup>		Not Hispanic or Latino <sup>b</sup>									
					American Indian or Alaska Native		Asian		Black or African American		White		Other race <sup>c</sup>	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All sectors	857,200	1,975	37,250	550	1,300	125	213,350	1,325	31,100	400	562,350	1,750	11,950	400
Science occupations	492,750	2,500	22,750	475	600	100	113,550	1,500	16,350	400	332,600	2,075	6,900	300
Biological, agricultural, and other life scientist	156,650	1,525	7,300	300	100	25	39,550	900	4,450	225	102,750	1,250	2,500	175
Computer and information scientist	63,000	1,100	1,700	150	D	D	28,950	850	1,050	125	30,700	725	650	100
Mathematical scientist	41,400	750	1,650	150	D	D	14,500	575	1,100	125	23,700	625	450	75
Physical scientist	84,550	1,275	3,250	200	50	25	17,550	700	2,300	200	60,350	1,025	1,050	125
Psychologist	77,600	950	4,550	225	200	75	4,400	350	3,450	225	63,850	950	1,150	150
Social scientist	69,500	1,025	4,300	250	250	75	8,600	425	4,050	250	51,250	900	1,100	125
Engineering occupations	120,650	1,375	4,700	275	100	50	49,650	1,150	2,900	175	61,850	1,125	1,400	200
S&E-related occupations	92,350	1,475	3,700	225	200	50	22,000	850	4,150	225	60,950	1,125	1,300	125
Non-S&E occupations	151,500	1,650	6,050	300	400	75	28,150	850	7,650	350	106,950	1,525	2,350	175
4-year educational institution <sup>d</sup>	344,350	2,325	16,350	400	600	100	68,950	1,300	13,750	400	240,100	1,850	4,600	250
Science occupations	230,400	1,950	11,400	350	300	75	43,800	975	8,200	300	163,450	1,700	3,200	225
Biological, agricultural, and other life scientist	76,650	1,200	3,950	225	50	25	17,250	600	1,900	150	52,400	1,075	1,150	150
Computer and information scientist	14,050	600	400	75	D	D	5,100	400	350	75	8,050	400	150	75
Mathematical scientist	21,600	600	1,000	125	D	D	5,850	375	600	100	14,050	450	150	50
Physical scientist	42,000	925	1,550	150	*	*	8,100	575	1,000	125	30,750	775	550	100
Psychologist	25,900	700	1,450	150	50	25	2,250	250	1,300	150	20,400	650	450	100
Social scientist	50,200	950	3,100	200	200	75	5,300	325	3,000	250	37,850	850	750	100
Engineering occupations	35,900	850	1,600	150	50	25	12,700	675	1,100	150	20,100	725	350	75
S&E-related occupations	35,800	925	1,400	125	100	50	7,150	425	1,700	125	24,950	750	450	100
Non-S&E occupations	42,300	850	1,950	150	150	50	5,250	400	2,700	200	31,600	775	600	100
Other educational institution <sup>e</sup>	30,900	900	1,900	175	100	50	3,150	400	2,450	200	22,700	725	550	100
Science occupations	18,100	700	1,150	150	S	S	1,850	275	1,500	175	13,300	600	300	75
Biological, agricultural, and other life scientist	4,600	375	200	50	D	D	450	125	300	75	3,550	325	100	50
Computer and information scientist	550	100	D	D	D	D	S	S	D	D	400	100	D	D
Mathematical scientist	1,350	175	100	25	D	D	150	50	50	25	1,000	175	S	S
Physical scientist	4,350	325	300	75	D	D	700	150	300	75	3,100	300	D	D
Psychologist	4,700	300	250	50	D	D	150	75	550	150	3,600	250	50	50
Social scientist	2,550	275	300	100	D	D	250	125	300	100	1,650	200	S	S
Engineering occupations	450	150	S	S	D	D	D	D	D	D	250	75	D	D
S&E-related occupations	5,950	400	300	75	D	D	450	175	400	75	4,650	350	100	50
Non-S&E occupations	6,400	325	400	75	50	25	700	150	550	100	4,550	325	100	50
Private, for profit <sup>f</sup>	306,300	2,500	11,150	400	300	75	109,300	1,525	7,300	325	174,200	1,900	4,000	275
Science occupations	142,200	1,800	5,450	300	150	50	51,100	1,125	3,200	225	80,650	1,400	1,650	175
Biological, agricultural, and other life scientist	42,900	1,175	1,750	175	D	D	14,750	725	1,150	150	24,700	850	550	100
Computer and information scientist	41,750	1,075	1,150	125	D	D	21,500	825	500	100	18,250	650	350	75
Mathematical scientist	13,700	525	450	75	D	D	7,050	475	200	50	5,750	375	200	75

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					American Indian or Alaska Native		Asian		Black or African American		White		Other race <sup>c</sup>	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Physical scientist	22,650	675	750	100	50	25	6,050	425	600	125	14,950	575	300	75
Psychologist	16,350	575	1,200	175	D	D	700	175	550	125	13,650	525	150	75
Social scientist	4,900	325	200	75	D	D	1,050	150	200	75	3,300	275	100	50
Engineering occupations	67,300	1,325	2,350	175	50	25	31,350	950	1,250	125	31,450	925	850	175
S&E-related occupations	29,000	875	1,100	150	50	25	9,400	600	750	100	17,300	650	450	75
Non-S&E occupations	67,800	1,175	2,250	175	50	25	17,500	650	2,100	200	44,800	1,100	1,050	150
Private, nonprofit	55,900	1,125	2,350	175	50	25	11,150	525	2,400	275	39,050	1,025	850	125
Science occupations	29,850	775	1,250	150	D	D	5,950	350	850	150	21,300	725	500	100
Biological, agricultural, and other life scientist	10,650	475	400	100	D	D	3,050	325	150	50	6,850	350	200	75
Computer and information scientist	2,600	275	50	25	D	D	900	200	S	S	1,550	175	S	S
Mathematical scientist	1,900	200	50	25	D	D	550	125	S	S	1,200	150	D	D
Physical scientist	4,400	350	150	50	D	D	750	150	S	S	3,350	300	50	25
Psychologist	6,600	400	450	100	D	D	400	100	200	75	5,450	400	100	50
Social scientist	3,650	300	200	50	D	D	300	100	200	75	2,900	275	50	50
Engineering occupations	4,550	350	150	50	D	D	1,650	225	100	50	2,550	275	50	25
S&E-related occupations	9,950	500	450	75	*	*	2,250	275	500	100	6,550	425	150	50
Non-S&E occupations	11,600	550	500	100	D	D	1,300	200	950	200	8,600	450	200	50
Federal government	50,150	1,025	2,500	175	100	50	8,550	525	2,550	225	35,450	825	950	125
Science occupations	33,300	850	1,750	150	S	S	5,600	400	1,400	150	23,850	750	700	125
Biological, agricultural, and other life scientist	14,550	550	850	100	D	D	2,800	275	700	100	9,800	450	350	75
Computer and information scientist	1,400	175	50	25	D	D	350	100	S	S	900	150	D	D
Mathematical scientist	1,850	200	50	25	D	D	550	125	100	50	1,100	150	50	25
Physical scientist	6,800	375	350	100	D	D	950	150	200	50	5,200	350	100	50
Psychologist	5,200	425	200	75	D	D	200	75	300	75	4,350	400	150	75
Social scientist	3,500	300	200	75	D	D	700	175	50	25	2,500	225	*	*
Engineering occupations	6,450	375	250	75	D	D	1,450	250	200	50	4,450	325	50	25
S&E-related occupations	4,750	350	250	75	D	D	900	175	400	75	3,100	275	50	25
Non-S&E occupations	5,650	400	250	75	D	D	650	150	500	100	4,050	300	S	S
State or local government	18,850	750	900	125	50	25	3,900	375	1,450	175	12,300	625	250	75
Science occupations	10,400	525	550	100	D	D	1,850	250	650	100	7,200	475	150	50
Biological, agricultural, and other life scientist	3,050	275	100	50	D	D	600	125	200	75	2,100	225	S	S
Computer and information scientist	600	150	D	D	D	D	150	75	*	*	400	125	D	D
Mathematical scientist	500	125	S	S	D	D	150	75	D	D	300	100	D	D
Physical scientist	2,000	225	50	50	D	D	500	150	50	50	1,300	175	S	S
Psychologist	2,750	300	250	100	D	D	200	75	250	75	2,050	250	D	D
Social scientist	1,550	225	S	S	D	D	300	100	100	50	1,050	200	D	D
Engineering occupations	2,100	250	100	50	D	D	950	200	200	75	850	175	D	D
S&E-related occupations	2,900	275	100	50	D	D	800	175	350	125	1,600	200	50	25
Non-S&E occupations	3,400	300	150	50	D	D	300	100	250	75	2,600	275	50	25
Self-employed <sup>d</sup>	40,750	1,100	1,450	150	50	25	4,400	375	800	100	33,450	975	600	125
Science occupations	23,250	825	900	125	D	D	1,600	225	400	100	20,050	725	300	100

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					American Indian or Alaska Native		Asian		Black or African American		White		Other race <sup>c</sup>	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Biological, agricultural, and other life scientist	3,350	275	100	50	D	D	400	125	50	25	2,800	275	S	S
Computer and information scientist	1,250	200	50	25	D	D	250	75	D	D	900	150	D	D
Mathematical scientist	300	75	D	D	D	D	100	50	D	D	200	75	D	D
Physical scientist	1,300	150	S	S	D	D	200	75	D	D	1,050	150	D	D
Psychologist	15,550	700	700	125	D	D	550	150	300	75	13,850	625	250	75
Social scientist	1,550	200	50	25	D	D	150	75	50	25	1,250	200	D	D
Engineering occupations	2,150	275	100	50	D	D	400	150	D	D	1,550	250	D	D
S&E-related occupations	2,750	225	S	S	D	D	500	125	50	25	2,100	200	D	D
Non-S&E occupations	12,600	650	350	75	D	D	1,900	250	350	75	9,750	600	200	50
Other sector <sup>h</sup>	10,050	550	550	100	D	D	3,850	350	400	75	5,150	400	100	50
Science occupations	5,250	425	350	75	D	D	1,850	250	150	50	2,800	325	50	25
Biological, agricultural, and other life scientist	1,000	150	50	25	D	D	350	100	50	25	550	100	D	D
Computer and information scientist	850	175	D	D	D	D	550	150	D	D	250	125	D	D
Mathematical scientist	250	75	D	D	D	D	S	S	S	S	100	50	D	D
Physical scientist	1,000	175	D	D	D	D	350	100	D	D	650	150	D	D
Psychologist	500	150	D	D	D	D	D	D	D	D	450	150	D	D
Social scientist	1,600	250	250	75	D	D	550	175	50	25	750	175	D	D
Engineering occupations	1,750	275	100	50	D	D	950	225	S	S	600	150	D	D
S&E-related occupations	1,300	225	50	25	D	D	550	150	50	25	700	150	D	D
Non-S&E occupations	1,800	250	100	50	D	D	500	150	150	50	1,000	175	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.

<sup>a</sup> Hispanic or Latino may be of any race.

<sup>b</sup> American Indian or Alaska Native, Asian, Black or African American, and White are single race.

<sup>c</sup> Other race includes Native Hawaiian or Other Pacific Islander and persons reporting more than one race who are not of Hispanic or Latino ethnicity.

<sup>d</sup> Includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

<sup>e</sup> Includes 2-year colleges, community colleges, or technical institutes, and other precollege institutions.

<sup>f</sup> Includes those self-employed in an incorporated business.

<sup>g</sup> Self-employed or business owner in a nonincorporated business.

<sup>h</sup> Includes employers not broken out separately.

**Note(s):**

Numbers are rounded to nearest 50. Detail may not add to total because of rounding. Standard errors are rounded up to nearest 25. 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.