

TABLE 47

## U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2019

(Number and SE)

Characteristic	All employed		Science occupations														Engineering occupations		S&E-related occupations		Non-S&E occupations	
			Total		Biological, agricultural, and other life scientist		Computer and information scientist		Mathematical scientist		Physical scientist		Psychologist		Social scientist							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE		
Doctorate recipient	857,200	1,975	492,750	2,500	156,650	1,525	63,000	1,100	41,400	750	84,550	1,275	77,600	950	69,500	1,025	120,650	1,375	92,350	1,475	151,500	1,650
Sex																						
Male	546,050	1,750	304,050	1,950	90,050	1,175	52,650	1,000	28,950	725	63,850	1,125	29,800	700	38,750	800	101,600	1,400	51,600	1,200	88,750	1,450
Female	311,200	1,200	188,700	1,400	66,650	925	10,350	475	12,450	425	20,650	500	47,850	850	30,750	625	19,000	625	40,750	850	62,750	1,100
Ethnicity																						
Hispanic or Latino <sup>a</sup>	37,250	550	22,750	475	7,300	300	1,700	150	1,650	150	3,250	200	4,550	225	4,300	250	4,700	275	3,700	225	6,050	300
Not Hispanic or Latino <sup>b</sup>																						
American Indian or Alaska Native	1,300	125	600	100	100	25	D	D	D	D	50	25	200	75	250	75	100	50	200	50	400	75
Asian	213,350	1,325	113,550	1,500	39,550	900	28,950	850	14,500	575	17,550	700	4,400	350	8,600	425	49,650	1,150	22,000	850	28,150	850
Black or African American	31,100	400	16,350	400	4,450	225	1,050	125	1,100	125	2,300	200	3,450	225	4,050	250	2,900	175	4,150	225	7,650	350
White	562,350	1,750	332,600	2,075	102,750	1,250	30,700	725	23,700	625	60,350	1,025	63,850	950	51,250	900	61,850	1,125	60,950	1,125	106,950	1,525
Other race <sup>c</sup>	11,950	400	6,900	300	2,500	175	650	100	450	75	1,050	125	1,150	150	1,100	125	1,400	200	1,300	125	2,350	175
Age																						
Under 35	99,050	1,050	63,200	950	22,600	550	10,100	425	7,150	325	11,350	450	6,150	375	5,850	350	19,100	650	7,600	375	9,100	475
35–39	128,800	1,375	79,050	1,125	26,900	625	12,950	575	7,450	375	12,650	500	9,550	500	9,550	425	22,150	800	12,450	600	15,150	500
40–44	117,500	1,325	71,750	1,150	25,650	800	9,000	500	6,450	375	11,400	500	9,250	450	10,000	475	16,900	725	12,150	575	16,700	600
45–49	108,400	1,450	62,100	1,200	19,400	650	7,650	425	5,050	325	9,850	450	9,900	625	10,250	500	13,850	650	11,950	500	20,450	675
50–54	100,900	1,375	52,050	1,100	15,800	575	6,700	450	3,550	250	8,900	500	8,500	450	8,550	500	13,700	625	12,900	550	22,250	675
55–59	101,950	1,400	53,850	1,175	16,150	625	7,050	425	4,450	375	10,250	550	8,300	475	7,650	450	14,200	575	12,050	550	21,900	750
60–64	88,300	1,400	48,150	1,125	15,000	725	5,250	375	3,400	300	9,550	475	8,300	425	6,650	425	10,450	475	11,400	575	18,300	725
65–75	112,350	1,625	62,600	1,275	15,200	700	4,300	325	4,000	300	10,500	475	17,650	700	11,000	550	10,200	600	11,900	550	27,700	875
Citizenship																						
U.S. citizen	732,750	2,000	418,050	2,275	132,250	1,425	44,800	875	30,800	775	72,350	1,100	75,700	975	62,150	1,025	90,550	1,350	83,500	1,400	140,700	1,600
Native-born	555,150	1,575	330,150	2,000	105,400	1,275	26,000	650	20,250	575	57,950	975	68,850	975	51,700	800	52,850	1,050	62,300	1,125	109,900	1,375
Naturalized	177,600	1,675	87,900	1,450	26,850	775	18,800	625	10,550	550	14,400	550	6,850	450	10,500	575	37,650	900	21,200	800	30,850	875
Non-U.S. citizen	124,450	1,600	74,700	1,500	24,400	775	18,200	725	10,600	475	12,200	675	1,950	250	7,350	450	30,100	900	8,850	475	10,800	650
Permanent resident	87,200	1,475	50,800	1,225	15,600	650	12,500	625	7,050	425	8,900	550	1,550	225	5,150	375	21,100	800	6,750	375	8,550	575
Temporary resident	37,300	900	23,950	750	8,800	450	5,700	375	3,550	300	3,300	325	400	125	2,200	250	9,050	475	2,100	275	2,250	250
Years since doctorate																						
≤ 5	142,500	625	90,100	900	31,200	650	14,300	500	9,100	325	13,350	500	10,250	375	11,950	400	23,750	675	13,150	475	15,450	575
6–10	154,750	1,025	92,650	1,125	31,400	750	14,200	600	8,350	375	14,750	475	11,250	475	12,700	525	24,700	750	17,300	650	20,100	600
11–15	127,000	1,150	72,550	1,125	24,200	725	9,050	450	6,750	400	11,800	500	10,750	450	9,950	475	18,750	650	14,100	475	21,600	700
16–20	108,700	825	60,950	800	18,700	525	6,650	425	4,600	350	10,650	450	10,050	525	10,300	450	13,350	500	13,300	550	21,100	700
21–25	104,250	825	54,250	900	16,050	550	7,650	425	3,850	325	9,350	425	9,300	475	8,000	475	14,850	550	12,650	575	22,500	750

TABLE 47

**U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2019**

(Number and SE)

Characteristic	All employed		Science occupations														Engineering occupations		S&E-related occupations		Non-S&E occupations	
			Total		Biological, agricultural, and other life scientist		Computer and information scientist		Mathematical scientist		Physical scientist		Psychologist		Social scientist							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE		
> 25	220,000	1,575	122,200	1,575	35,050	950	11,200	575	8,700	425	24,650	750	26,000	775	16,550	600	25,150	800	21,850	825	50,800	1,200
Place of birth																						
United States	544,400	1,525	323,750	2,000	103,600	1,250	25,450	675	19,850	575	56,450	950	68,000	975	50,450	800	51,850	1,000	61,250	1,100	107,550	1,325
Asia	217,650	1,500	113,300	1,550	38,100	875	29,350	850	14,850	550	17,600	725	4,200	325	9,200	500	54,450	1,150	21,800	850	28,150	850
Europe <sup>d</sup>	46,050	900	28,150	750	6,900	350	4,650	375	3,650	300	5,850	375	2,450	300	4,600	350	6,350	400	4,350	350	7,200	475
North America <sup>e</sup>	8,200	400	4,950	375	1,200	200	450	125	550	125	800	125	850	200	1,150	200	750	150	900	150	1,600	200
Central America <sup>f</sup>	5,800	325	3,350	275	1,100	125	350	125	300	75	650	125	300	75	650	125	950	125	550	100	900	125
Caribbean	4,000	250	2,450	225	550	100	200	75	150	50	400	100	700	150	400	100	350	100	400	75	800	100
South America	11,750	475	6,650	350	2,500	200	650	100	750	125	1,150	150	450	100	1,150	150	2,100	200	900	100	2,050	250
Africa	13,950	475	7,100	350	2,000	200	1,100	175	850	100	1,300	175	400	100	1,500	150	2,650	275	1,700	200	2,550	250
Oceania	1,850	225	1,150	200	350	100	D	D	150	75	250	100	100	50	200	75	300	100	150	75	250	75
Unknown	3,550	400	1,900	300	350	125	700	200	300	150	D	D	150	100	200	100	900	225	350	125	450	150

D = suppressed to avoid disclosure of confidential information.

S&amp;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 Russia.<sup>e</sup> Excludes United States.<sup>f</sup> Includes Mexico.**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.