

TABLE 24

U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad field of doctorate: 2019

(Number and SE)

Characteristic	All employed		Science																	
			Total		Biological, agricultural, and environmental life sciences		Computer and information sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences		Engineering		Health	
	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	640,300	1,900	220,700	1,100	31,100	400	36,650	450	133,750	950	115,350	825	102,700	900	176,700	1,175	40,200	475
Sex																				
Male	546,050	1,750	383,900	1,700	124,550	1,025	25,500	425	27,350	450	101,300	925	45,600	800	59,600	825	147,250	1,200	14,900	325
Female	311,200	1,200	256,400	1,200	96,200	900	5,600	300	9,300	325	32,500	525	69,700	775	43,100	575	29,450	575	25,300	400
Ethnicity																				
Hispanic or Latino ^a	37,250	550	29,200	475	10,250	275	950	100	1,300	100	4,350	200	6,550	250	5,800	275	6,650	275	1,400	125
Not Hispanic or Latino ^b																				
American Indian or Alaska Native	1,300	125	1,050	125	200	50	D	D	D	D	50	25	300	75	400	100	150	50	100	50
Asian	213,350	1,325	128,850	1,150	50,650	875	13,400	400	11,300	400	32,900	725	7,100	425	13,500	525	75,800	1,150	8,700	350
Black or African American	31,100	400	23,750	375	7,050	250	600	75	850	100	3,050	225	5,850	225	6,400	300	4,150	200	3,150	225
White	562,350	1,750	447,900	1,800	149,050	1,100	15,800	375	22,750	425	91,750	975	93,600	925	74,950	750	88,050	1,050	26,400	475
Other race ^c	11,950	400	9,500	325	3,550	200	350	100	400	100	1,650	150	1,950	175	1,600	175	1,900	225	500	75
Age																				
Under 35	99,050	1,050	68,100	925	25,700	550	3,900	275	5,600	300	17,500	500	8,400	400	7,000	375	27,050	650	3,900	250
35–39	128,800	1,375	93,250	1,175	35,350	775	6,850	425	6,050	325	19,200	625	13,250	500	12,600	450	30,900	700	4,650	250
40–44	117,500	1,325	87,450	1,200	34,150	950	5,250	350	5,000	275	16,800	600	13,250	475	13,000	550	24,950	700	5,100	325
45–49	108,400	1,450	82,700	1,250	28,900	775	4,400	325	4,400	300	15,800	550	14,800	600	14,400	525	21,250	700	4,450	350
50–54	100,900	1,375	74,250	1,100	24,200	675	3,100	275	3,850	275	16,050	625	13,700	575	13,450	575	21,400	700	5,200	325
55–59	101,950	1,400	75,100	1,250	25,100	725	3,450	300	4,150	300	17,700	650	12,700	525	12,000	525	22,000	700	4,800	325
60–64	88,300	1,400	67,900	1,200	22,750	825	2,500	250	3,250	325	15,100	575	12,700	575	11,600	450	14,400	600	6,000	375
65–75	112,350	1,625	91,550	1,400	24,600	775	1,700	200	4,450	300	15,600	525	26,500	850	18,750	700	14,700	725	6,100	350
Citizenship																				
U.S. citizen	732,750	2,000	563,550	1,875	194,100	1,225	21,800	500	28,500	525	114,750	1,075	112,600	875	91,850	950	133,500	1,275	35,700	475
Native-born	555,150	1,575	451,600	1,600	154,300	1,200	12,950	400	19,400	400	87,050	900	102,300	875	75,600	725	75,050	950	28,550	475
Naturalized	177,600	1,675	111,950	1,400	39,800	850	8,800	450	9,100	400	27,700	725	10,300	500	16,300	625	58,450	1,050	7,150	350
Non-U.S. citizen	124,450	1,600	76,750	1,325	26,650	800	9,350	450	8,200	400	19,000	700	2,750	275	10,850	600	43,200	1,000	4,500	300
Permanent resident	87,200	1,475	54,000	1,175	18,450	650	6,450	425	5,300	350	13,600	625	2,250	250	8,000	525	30,300	925	2,900	225
Temporary resident	37,300	900	22,750	725	8,200	450	2,850	275	2,900	300	5,450	400	500	150	2,850	275	12,900	500	1,650	225
Years since doctorate																				
≤ 5	142,500	625	100,000	750	35,700	600	7,350	325	6,600	300	19,800	425	14,650	375	15,900	375	33,400	700	9,100	275
6–10	154,750	1,025	112,250	1,025	41,950	750	7,650	350	6,800	300	21,800	575	16,800	475	17,300	475	34,400	750	8,100	350
11–15	127,000	1,150	93,350	1,150	34,050	675	5,200	300	5,350	275	17,650	575	16,300	425	14,850	475	27,250	650	6,400	300

TABLE 24

U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad field of doctorate: 2019

(Number and SE)

Characteristic	All employed		Science																Engineering		Health	
			Total		Biological, agricultural, and environmental life sciences		Computer and information sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE		
16–20	108,700	825	82,300	875	28,600	600	3,300	225	4,150	300	16,250	550	15,650	575	14,350	500	20,750	550	5,650	350		
21–25	104,250	825	76,550	775	25,250	625	3,300	225	4,150	275	16,900	575	14,000	525	13,000	525	23,250	625	4,450	250		
> 25	220,000	1,575	175,800	1,425	55,200	925	4,300	300	9,650	375	41,350	775	38,000	850	27,300	700	37,700	825	6,500	300		
Place of birth																						
United States	544,400	1,525	443,200	1,500	151,600	1,150	12,750	400	19,000	425	85,000	850	100,950	875	73,850	750	73,250	875	27,950	450		
Asia	217,650	1,500	126,750	1,200	47,650	825	13,900	450	11,550	400	32,800	775	6,550	450	14,250	575	82,350	1,250	8,550	350		
Europe ^d	46,050	900	35,450	775	9,750	500	2,700	275	3,650	275	9,000	425	3,450	325	6,900	375	9,300	425	1,250	150		
North America ^e	8,200	400	6,550	375	1,950	225	250	125	300	75	1,350	175	1,200	175	1,500	225	1,150	175	500	100		
Central America ^f	5,800	325	4,350	275	1,650	150	200	75	300	75	900	150	450	75	900	150	1,300	175	150	50		
Caribbean	4,000	250	3,150	225	900	125	100	50	50	25	550	100	950	150	600	100	600	100	250	75		
South America	11,750	475	8,300	425	3,400	250	400	75	650	100	1,450	150	750	100	1,700	175	3,000	225	450	100		
Africa	13,950	475	9,250	400	2,950	225	500	125	750	100	2,000	225	700	150	2,350	200	3,800	325	900	150		
Oceania	1,850	225	1,400	200	400	125	S	S	200	75	300	125	100	50	300	75	350	100	100	50		
Unknown	3,550	400	1,900	275	450	125	200	100	250	150	450	150	250	100	300	100	1,500	275	150	75		

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

SE = standard error.

^a Hispanic or Latino may be of any race.^b American Indian or Alaska Native, Asian, Black or African American, and White are single race.^c Other race includes Native Hawaiian or Other Pacific Islander and persons reporting more than one race who are not of Hispanic or Latino ethnicity.^d Includes Russia.^e Excludes United States.^f 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.