TABLE 47

U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2021

(Number and SE)

Characteristic	All employed		Science occupations														Engineering occupations		S&E-related occupations		Non-S&E occupations	
			Total		Biological, agricultural, and other life scientists		Computer and information scientists		Mathematical scientists		Physical scientists		Psychologists		Social scientists							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Doctorate recipient	872,100	2,425	502,250	2,725	160,850	1,700	65,450	1,025	43,950	875	85,100	1,375	78,400	1,025	68,450	1,150	122,800	1,575	100,450	1,525	146,600	1,825
Sex																						
Male	543,550	2,350	301,700	2,300	90,550	1,400	53,250	1,025	31,350	800	62,150	1,200	27,550	875	36,850	925	101,650	1,550	56,900	1,200	83,300	1,525
Female	328,500	1,250	200,550	1,575	70,300	1,000	12,200	425	12,600	450	22,950	675	50,850	825	31,600	725	21,100	625	43,600	1,050	63,300	975
Ethnicity																						
Hispanic or Latino[a]	40,100	475	24,250	500	8,050	325	1,800	150	2,050	175	3,400	175	4,400	225	4,600	300	4,800	225	4,050	250	7,000	325
Not Hispanic or Latino[b]																						
American Indian or Alaska Native	1,400	125	700	100	150	50	D	D	*	*	50	50	200	50	200	50	100	50	200	75	400	100
Asian	219,800	1,600	118,200	1,525	41,000	1,050	29,350	850	15,200	625	19,300	850	4,150	350	9,150	450	50,050	1,150	24,400	950	27,150	950
Black or African American	31,800	475	16,650	475	4,600	300	1,050	125	1,200	125	2,200	175	3,600	300	3,950	225	3,100	225	4,750	325	7,300	300
White	562,950	2,075	333,150	2,375	103,800	1,450	32,000	900	24,800	700	58,700	1,150	64,500	925	49,400	1,050	62,900	1,200	65,350	1,125	101,550	1,525
Other race[c]	16,000	575	9,250	500	3,250	250	1,200	225	650	125	1,400	200	1,550	200	1,150	150	1,800	250	1,700	175	3,200	325
Age																						
Under 35	99,200	925	64,850	1,000	23,300	675	10,450	450	7,350	400	12,100	475	5,950	325	5,700	350	18,700	550	7,850	450	7,750	375
35–39	130,150	1,225	81,600	1,250	27,800	775	13,600	525	8,950	500	11,450	425	9,450	400	10,400	500	20,650	775	13,450	550	14,450	575
40–44	127,550	1,400	76,400	1,175	25,350	675	9,700	475	6,750	400	13,200	550	10,000	500	11,400	475	18,550	575	15,150	750	17,450	700
45–49	111,200	1,250	63,750	1,075	20,500	675	8,350	500	5,800	350	10,400	500	9,350	500	9,300	500	14,900	650	13,600	625	18,950	650
50–54	104,550	1,225	54,450	1,125	16,550	600	6,150	450	4,100	325	9,400	450	8,850	475	9,450	425	13,500	550	13,800	625	22,800	775
55–59	98,950	1,375	51,550	1,075	15,550	525	7,000	450	4,400	350	9,500	500	8,300	425	6,850	425	13,550	675	12,250	525	21,600	825
60–64	86,450	1,375	44,900	1,175	14,050	675	5,250	450	2,900	225	8,800	500	7,900	450	6,000	350	11,800	625	10,600	625	19,100	725
65–75	114,100	1,575	64,700	1,200	17,750	725	4,950	375	3,700	325	10,250	575	18,650	675	9,400	450	11,100	500	13,750	725	24,550	925
Citizenship																						
U.S. citizen	746,850	2,200	425,050	2,525	136,750	1,550	45,600	900	32,750	700	72,650	1,150	76,700	975	60,600	1,150	93,150	1,425	91,600	1,425	137,100	1,800
Native-born	554,050	1,850	329,800	2,175	106,400	1,350	25,800	750	21,600	575	56,200	1,025	70,300	900	49,450	1,025	51,600	1,100	67,550	1,125	105,150	1,500
Naturalized	192,800	1,675	95,250	1,275	30,350	900	19,850	625	11,150	550	16,450	725	6,400	425	11,100	575	41,550	1,075	24,050	900	31,950	1,125
Non-U.S. citizen	125,250	1,425	77,200	1,350	24,100	800	19,850	750	11,200	525	12,450	725	1,700	225	7,850	450	29,600	950	8,900	475	9,500	500
Permanent resident	84,250	1,300	49,800	1,125	14,100	600	13,600	650	6,750	450	8,650	625	1,200	200	5,500	475	20,100	750	6,650	450	7,750	425
Temporary resident	40,950	825	27,400	800	10,050	550	6,250	500	4,450	375	3,800	300	500	150	2,400	225	9,550	450	2,250	275	1,750	225
Years since doctorate																						
≤ 5	141,750	600	91,150	1,000	31,750	775	14,600	550	9,350	400	13,550	450	9,650	375	12,250	475	23,350	675	13,250	550	14,000	475
6–10	159,000	975	96,450	1,200	31,450	750	14,700	475	10,000	500	14,350	575	12,050	425	13,900	525	24,200	775	18,950	725	19,350	625
11–15	137,450	875	78,400	925	25,800	700	10,350	500	7,600	425	13,500	600	10,450	475	10,700	500	20,150	800	17,600	750	21,300	750

TABLE 47

U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2021

(Number and SE)

Characteristic	All employed		Science occupations														Engineering occupations		S&E-related occupations		Non-S&E occupations	
			Total		Biological, agricultural, and other life scientists		Computer and information scientists		Mathematical scientists		Physical scientists		Psychologists		Social scientists							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
16–20	108,850	825	59,600	1,025	18,700	650	6,450	475	4,900	375	10,700	450	9,700	600	9,150	425	14,350	650	14,650	600	20,250	775
21–25	104,600	950	56,450	1,025	17,300	600	7,250	425	3,850	300	9,550	450	10,350	600	8,150	425	13,950	600	12,400	575	21,800	725
> 25	220,400	1,675	120,200	1,575	35,850	1,025	12,150	575	8,300	375	23,450	875	26,150	775	14,300	625	26,750	750	23,600	875	49,850	1,150
Place of birth																						
United States	547,750	1,750	326,200	2,225	105,200	1,350	25,300	750	21,450	575	55,750	1,000	69,800	900	48,700	1,025	50,900	1,075	66,450	1,125	104,200	1,475
Asia	229,750	1,750	120,700	1,525	39,850	1,050	32,550	825	15,850	600	19,250	875	3,750	350	9,500	500	57,950	1,275	23,800	900	27,300	925
Europe[d]	44,650	725	27,200	750	6,950	400	4,600	325	3,600	300	5,200	325	1,950	225	4,900	425	5,900	450	4,300	375	7,250	500
North America[e]	8,650	500	5,200	375	1,450	225	450	125	450	125	1,050	225	800	150	1,000	175	800	225	950	150	1,700	225
Central America[f]	5,800	325	3,350	250	1,200	150	400	100	250	50	550	75	350	75	600	125	950	100	650	100	900	125
Caribbean	3,950	275	2,200	225	650	150	150	50	200	75	350	100	500	100	350	75	400	75	550	100	800	150
South America	12,050	475	7,050	325	2,500	175	650	75	750	100	1,050	125	550	100	1,600	225	2,200	200	1,150	150	1,650	175
Africa	16,150	450	8,200	350	2,550	250	1,200	200	1,100	175	1,550	175	350	100	1,450	150	3,350	300	2,150	250	2,450	200
Oceania	2,200	250	1,300	175	300	100	100	75	250	125	300	100	100	50	250	100	200	75	400	150	300	100
Unknown	1,150	250	800	225	300	125	S	S	D	D	D	D	D	D	D	D	D	D	200	100	S	S

* = 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] 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 2021.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2021.