

TABLE 47

U.S. residing employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2023

(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		
Doctorate recipient	908,700	2,300	489,300	2,625	168,150	1,575	76,900	1,250	48,650	1,000	88,350	1,325	36,450	850	70,750	1,175	127,550	1,600	135,450	1,825	156,400	2,025
Sex																						
Male	558,900	1,850	304,850	2,100	93,750	1,525	62,100	1,125	33,750	800	64,800	1,250	13,450	600	36,950	825	105,450	1,550	63,450	1,450	85,100	1,575
Female	349,800	1,475	184,400	1,525	74,400	1,125	14,800	650	14,900	550	23,550	625	23,000	725	33,800	825	22,100	600	72,000	1,175	71,300	1,375
Ethnicity and race																						
Hispanic or Latino ^a	47,400	700	26,100	550	9,850	400	2,300	175	2,300	200	3,800	250	2,350	225	5,550	300	5,550	250	7,950	350	7,800	325
Not Hispanic or Latino ^b																						
American Indian or Alaska Native	1,750	175	800	100	250	100	S	S	D	D	100	25	100	50	300	75	100	50	350	75	450	100
Asian	240,850	1,900	131,700	1,700	44,450	925	35,800	975	17,450	700	21,050	850	2,950	350	10,050	550	52,400	1,100	26,500	1,000	30,250	975
Black or African American	36,050	500	16,650	400	5,200	275	1,400	175	1,450	150	2,850	225	1,600	175	4,100	250	3,350	225	7,000	375	9,050	400
White	566,700	2,050	305,400	2,200	104,950	1,375	36,400	825	26,750	850	59,150	1,025	28,600	725	49,550	975	64,750	1,125	90,900	1,525	105,600	1,650
Other race ^c	15,950	525	8,600	400	3,400	275	950	150	750	125	1,400	150	850	150	1,250	150	1,400	200	2,700	275	3,250	250
Age																						
Under 35	101,900	1,100	63,900	900	22,750	550	11,900	475	8,050	325	12,100	450	3,500	250	5,550	275	18,700	575	10,300	450	8,950	375
35–39	139,700	1,525	83,650	1,300	28,850	775	16,600	625	9,250	450	12,950	500	5,950	375	10,050	425	22,200	725	17,950	725	15,950	575
40–44	135,200	1,425	78,100	1,250	26,900	850	12,500	600	7,750	450	12,950	600	5,700	400	12,250	550	18,300	725	18,200	725	20,600	725
45–49	119,100	1,425	64,250	1,175	22,500	725	8,700	475	6,100	425	11,800	550	5,350	400	9,800	475	15,850	700	18,450	800	20,550	850
50–54	112,200	1,400	56,500	1,200	18,650	700	8,200	500	5,250	400	10,250	625	4,550	400	9,600	475	13,700	650	18,350	700	23,700	775
55–59	100,500	1,625	48,800	1,075	16,000	700	7,500	475	4,200	325	9,350	550	3,850	350	7,950	475	12,950	700	16,000	725	22,750	775
60–64	87,550	1,500	41,900	975	14,400	625	6,350	500	3,850	325	8,000	475	2,900	300	6,350	400	13,100	675	13,600	700	18,950	775
65–75	112,550	1,375	52,200	1,150	18,050	650	5,100	425	4,200	375	10,950	500	4,650	375	9,250	450	12,750	625	22,650	750	24,950	875
Citizenship																						
U.S. citizen	774,700	2,225	406,950	2,450	143,300	1,475	53,750	1,150	37,000	950	75,300	1,175	35,150	850	62,350	1,150	97,000	1,625	126,000	1,700	144,800	1,875
Native born	562,450	1,725	301,100	1,975	110,500	1,325	28,600	725	23,300	725	56,700	925	31,650	800	50,400	950	53,800	1,025	98,200	1,500	109,300	1,550
Naturalized	212,250	1,775	105,800	1,550	32,800	875	25,150	850	13,700	575	18,600	750	3,550	350	12,000	575	43,150	1,200	27,800	950	35,500	1,025
Non-U.S. citizen	134,000	1,550	82,350	1,375	24,850	775	23,150	750	11,650	500	13,050	600	1,300	175	8,400	500	30,550	825	9,450	575	11,600	650
Permanent resident	94,750	1,575	55,950	1,325	16,550	675	16,000	700	7,650	450	8,900	550	950	150	5,900	425	22,050	825	7,300	525	9,450	600
Temporary resident	39,250	775	26,400	675	8,300	375	7,150	350	3,950	300	4,150	275	350	100	2,500	275	8,500	475	2,200	225	2,150	275
Years since doctorate																						
≤ 5	143,600	575	87,650	800	31,450	525	15,850	475	9,950	375	13,850	450	5,350	325	11,250	375	23,300	500	18,200	550	14,450	450
6–10	169,900	925	99,000	1,175	32,000	750	18,450	600	11,350	500	15,750	525	7,100	400	14,350	550	25,300	650	22,950	775	22,650	675
11–15	146,200	925	80,800	1,075	28,100	800	13,450	575	7,550	400	13,800	575	5,850	375	12,000	450	19,500	725	22,450	775	23,500	750
16–20	117,750	800	61,000	950	21,300	650	7,100	450	6,100	375	11,550	600	5,350	400	9,550	525	15,950	650	18,450	625	22,400	775
21–25	105,200	1,000	52,350	1,025	18,100	625	7,850	525	4,200	350	9,700	500	4,150	275	8,350	325	12,950	650	17,250	650	22,600	775

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			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		
> 25	226,050	1,575	108,500	1,625	37,200	975	14,150	650	9,450	450	23,750	725	8,650	450	15,300	550	30,500	1,050	36,200	925	50,800	1,275
Place of birth																						
United States	555,700	1,700	297,350	1,950	108,900	1,300	28,250	725	22,800	700	56,300	925	31,400	800	49,750	950	53,700	1,050	96,800	1,450	107,900	1,550
Asia	245,150	1,900	131,550	1,650	41,900	925	38,350	1,025	18,100	700	20,950	850	2,250	300	9,950	500	58,400	1,175	24,750	1,025	30,450	1,050
Europe	53,550	975	30,900	825	7,700	450	6,200	450	4,450	325	6,050	400	1,350	200	5,100	375	7,450	425	6,650	550	8,600	500
North America ^d	13,700	500	7,650	425	2,350	200	1,050	225	800	150	1,200	150	550	150	1,700	250	1,550	200	1,950	225	2,550	250
Central America	2,300	225	1,050	175	400	75	100	50	50	50	150	50	S	S	300	100	450	100	400	100	350	75
Caribbean	4,150	300	2,200	200	700	125	200	75	200	75	400	100	250	75	350	75	400	75	750	150	850	150
South America	13,750	450	8,400	350	3,050	200	900	150	950	150	1,300	175	350	75	1,800	175	2,150	200	1,500	150	1,700	175
Africa	18,000	475	8,900	425	2,750	250	1,600	225	1,050	125	1,750	200	200	100	1,550	175	3,300	350	2,500	250	3,350	300
Oceania	2,100	225	1,350	175	350	125	200	100	200	100	250	75	100	50	250	100	200	75	150	75	400	125
Unknown	S	S	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

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 individuals who reported being Native Hawaiian or Other Pacific Islander, single race, and those who reported being more than one race.

^d North America excludes United States.

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 2023.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.