

TABLE 26-1
U.S. residing employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, primary or secondary work activity, and sector of employment: 2023

(Number and SE)

Characteristic	All employed		4-year educational institution ^a		Other educational institution ^b		Private, for profit ^c		Private, nonprofit		Federal government		State or local government		Self-employed ^d		Other ^e	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Doctorate recipient	908,700	2,300	341,350	2,475	26,750	875	354,100	2,775	64,300	1,175	58,600	1,250	18,700	725	42,350	1,150	2,450	275
Sex																		
Male	558,900	1,850	199,700	2,000	11,850	625	246,450	2,300	33,800	1,025	34,950	950	10,200	550	20,700	875	1,300	200
Female	349,800	1,475	141,650	1,600	14,900	600	107,700	1,300	30,550	825	23,700	700	8,550	400	21,650	875	1,200	225
Ethnicity and race																		
Hispanic or Latino ^f	47,400	700	20,100	450	2,100	200	15,100	450	3,300	250	3,600	225	1,000	125	1,650	150	450	100
Not Hispanic or Latino ^g																		
American Indian or Alaska Native	1,750	175	650	100	150	75	300	75	200	100	250	75	50	25	S	S	D	D
Asian	240,850	1,900	72,100	1,450	3,250	375	130,650	1,775	13,800	675	10,700	625	4,450	400	5,350	525	600	175
Black or African American	36,050	500	14,450	450	2,100	200	10,750	425	2,800	250	3,100	250	1,400	175	1,250	175	150	75
White	566,700	2,050	227,850	2,050	18,500	725	191,800	2,025	42,900	975	39,800	1,025	11,500	575	33,200	1,025	1,200	200
Other race ^h	15,950	525	6,200	325	600	150	5,550	375	1,300	150	1,150	150	350	75	800	150	D	D
Age																		
Under 35	101,900	1,100	33,900	800	1,150	175	51,050	925	7,850	375	5,500	325	1,550	175	800	150	100	50
35–39	139,700	1,525	48,350	1,025	2,350	250	65,500	1,075	10,100	475	8,050	400	2,500	250	2,550	275	350	100
40–44	135,200	1,425	51,250	1,000	3,750	300	55,000	1,250	10,400	525	8,750	450	2,800	275	2,950	275	350	100
45–49	119,100	1,425	47,050	1,000	4,150	325	44,200	1,025	8,550	550	8,800	500	2,400	225	3,500	325	350	150
50–54	112,200	1,400	44,450	950	4,350	375	41,600	1,150	8,000	475	7,750	475	2,400	300	3,300	350	350	100
55–59	100,500	1,625	37,900	1,000	4,150	325	37,000	1,100	6,400	525	7,600	475	2,450	275	4,750	350	300	100
60–64	87,550	1,500	34,850	1,075	3,200	275	29,100	825	5,550	350	6,350	525	2,200	275	5,950	475	300	75
65–75	112,550	1,375	43,600	1,025	3,650	375	30,700	1,025	7,450	500	5,800	400	2,450	275	18,550	750	350	125
Citizenship																		
U.S. citizen	774,700	2,225	294,250	2,350	25,800	850	281,850	2,550	57,050	1,100	56,600	1,200	16,850	650	41,000	1,125	1,300	200
Native born	562,450	1,725	223,600	1,900	21,050	750	181,900	1,900	45,050	975	43,850	1,000	12,500	525	33,700	1,025	850	150
Naturalized	212,250	1,775	70,650	1,400	4,800	400	99,950	1,900	12,000	625	12,750	650	4,350	375	7,300	575	450	125
Non-U.S. citizen	134,000	1,550	47,100	1,100	950	200	72,250	1,175	7,250	475	2,050	275	1,850	225	1,350	250	1,200	200
Permanent resident	94,750	1,575	32,850	975	700	175	52,400	1,125	4,500	375	1,100	200	1,550	200	1,200	250	450	150
Temporary resident	39,250	775	14,250	500	200	100	19,850	650	2,750	300	950	175	350	100	150	75	700	125
Years since doctorate																		
≤ 5	143,600	575	52,550	800	2,600	200	62,500	900	11,850	450	8,600	375	3,100	225	2,050	225	350	100
6–10	169,900	925	60,550	1,025	4,300	325	74,650	1,175	12,550	525	10,100	475	3,850	300	3,350	300	550	125
11–15	146,200	925	55,250	1,000	5,000	375	57,950	1,225	10,600	550	9,900	525	3,050	275	4,200	375	250	75
16–20	117,750	800	47,650	900	4,550	325	41,350	900	8,450	600	9,200	575	2,150	250	4,100	375	350	125
21–25	105,200	1,000	40,850	950	3,600	300	39,700	1,000	6,700	375	7,350	475	2,450	300	4,300	375	250	100
> 25	226,050	1,575	84,500	1,250	6,800	425	77,950	1,425	14,150	675	13,500	675	4,100	350	24,350	825	700	150

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Characteristic	All employed		4-year educational institution ^a		Other educational institution ^b		Private, for profit ^c		Private, nonprofit		Federal government		State or local government		Self-employed ^d		Other ^e		
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	
Primary or secondary work activity ⁱ																			
Any R&D	546,250	2,475	226,950	1,950	5,050	425	214,900	2,300	37,350	950	36,550	875	9,050	450	14,850	700	1,500	200	
Basic research	180,050	1,925	128,250	1,750	1,850	250	20,050	775	13,150	575	11,400	575	2,200	225	2,750	325	400	100	
Applied research	329,150	2,575	120,100	1,750	2,250	325	133,900	1,975	25,800	725	28,900	825	7,000	425	9,900	525	1,300	200	
Experimental development	153,200	1,875	14,750	650	1,350	200	115,750	1,875	6,500	375	7,100	475	1,900	250	5,500	425	350	100	
Computer applications	103,750	1,500	14,650	650	500	100	71,500	1,350	6,450	400	5,700	350	2,300	275	2,600	300	D	D	
Design	76,700	1,600	7,200	425	550	100	55,900	1,375	4,300	325	4,600	400	1,350	225	2,750	300	S	S	
Management, sales, or administration ^j	388,200	2,375	120,400	1,475	9,850	500	168,350	1,925	32,100	850	30,350	875	10,700	500	15,250	625	1,200	175	
Professional services	117,050	1,775	18,350	750	2,950	300	46,650	1,250	14,950	650	7,550	500	3,700	375	22,350	775	550	125	
Teaching	235,900	2,325	190,400	1,850	20,200	800	9,450	625	7,000	475	2,700	325	1,000	200	4,950	450	150	75	
Other work activities ^k	82,600	1,475	27,850	950	3,400	275	28,750	850	6,650	425	7,100	400	3,000	300	5,450	475	350	125	

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

SE = standard error.

^a Four-year educational institution includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

^b Other educational institution includes 2-year colleges, community colleges, technical institutes, precollege institutions, and other educational institutions.

^c Private, for profit includes those self-employed in an incorporated business.

^d Self-employed or business owner in a nonincorporated business.

^e Other sector includes employers not broken out separately.

^f Hispanic or Latino may be of any race.

^g American Indian or Alaska Native, Asian, Black or African American, and White are single race.

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

ⁱ Detail may exceed total due to multiple responses as respondents may provide both a primary and a secondary work activity. Primary and secondary work activities were self-defined by respondent in response to the question: "On which two activities...did you work the most hours during a typical week on this job?"

^j Administration includes accounting, finance, contracts, and human resources.

^k Other work activities include production, operations, maintenance, and other activities not broken out separately.

Note(s):
 Numbers are rounded to the nearest 50. Standard errors are rounded up to the nearest 25. Detail may not add to total due to 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.