

Table 9-34

Employed science, engineering, and health doctorate holders, by broad occupation, sex, age, disability status, sector of employment, and tenure status: 2019

(Number)

Occupation, age, disability status, and sex	Total	4-year educational institution ^a				Other employment sectors						
		Tenured	Not tenured		Tenure not applicable	Other educational institution ^b	Private sector, for profit ^c	Private sector, nonprofit	Federal government	State or local government	Self-employed ^d	Other ^e
			On tenure track	Not on tenure track								
All occupations	857,200	160,500	50,850	52,200	80,800	30,900	307,550	55,900	50,150	18,850	40,750	8,850
Under age 40	227,850	10,300	31,550	17,600	29,900	5,050	97,500	15,300	11,550	4,450	2,850	1,800
Without disability	216,450	9,900	29,550	16,550	27,900	4,700	93,650	14,500	11,050	4,200	2,700	1,650
With disability	11,400	350	2,000	1,000	2,000	350	3,850	800	500	200	200	150
Age 40 and over	629,400	150,200	19,350	34,600	50,900	25,850	210,000	40,650	38,550	14,400	37,850	7,000
Without disability	570,450	134,200	17,550	31,400	45,950	23,300	192,950	37,300	35,000	13,000	33,450	6,350
With disability	58,900	16,000	1,800	3,200	4,950	2,550	17,050	3,350	3,550	1,400	4,450	650
Female	311,200	50,350	21,600	22,500	38,050	16,600	88,250	24,800	19,000	7,900	19,000	3,200
Under age 40	94,500	4,100	13,050	8,000	14,950	3,100	33,150	7,650	5,850	2,000	1,800	800
Without disability	90,150	3,950	12,250	7,650	14,150	2,900	32,000	7,300	5,650	1,850	1,700	750
With disability	4,350	150	800	350	800	200	1,150	350	200	150	100	S
Age 40 and over	216,700	46,250	8,500	14,500	23,100	13,500	55,050	17,150	13,100	5,900	17,200	2,400
Without disability	198,300	41,450	7,450	13,250	21,350	12,400	51,200	15,750	12,150	5,450	15,600	2,250
With disability	18,400	4,800	1,050	1,250	1,800	1,100	3,850	1,400	950	450	1,600	100
Male	546,050	110,100	29,300	29,650	42,800	14,300	219,300	31,100	31,150	10,950	21,750	5,650
Under age 40	133,350	6,200	18,450	9,550	15,000	1,900	64,350	7,650	5,700	2,450	1,100	1,000
Without disability	126,300	6,000	17,300	8,900	13,750	1,800	61,650	7,200	5,400	2,400	1,000	900
With disability	7,050	200	1,150	650	1,200	100	2,700	450	300	50	100	S
Age 40 and over	412,700	103,950	10,850	20,100	27,800	12,350	154,950	23,500	25,450	8,500	20,650	4,650
Without disability	372,200	92,750	10,100	18,150	24,600	10,900	141,750	21,550	22,900	7,550	17,850	4,100
With disability	40,550	11,150	750	1,950	3,200	1,450	13,200	1,950	2,550	950	2,800	550
S&E occupations ^f	613,400	127,450	41,550	39,450	57,850	18,550	210,450	34,400	39,750	12,500	25,400	6,050
Under age 40	183,500	9,250	27,300	14,550	24,000	3,150	77,700	11,100	9,950	3,500	1,600	1,400
Without disability	174,250	8,900	25,500	13,650	22,300	3,000	74,800	10,450	9,600	3,300	1,500	1,300
With disability	9,250	350	1,800	850	1,700	150	2,950	650	350	200	100	100
Age 40 and over	429,900	118,200	14,200	24,900	33,850	15,400	132,750	23,300	29,800	9,000	23,800	4,650
Without disability	388,750	105,600	12,850	22,600	30,350	13,650	122,000	21,300	27,000	8,250	20,950	4,150
With disability	41,100	12,600	1,350	2,300	3,500	1,750	10,750	2,000	2,750	750	2,850	500
Female	207,700	36,750	16,200	15,550	25,550	9,650	56,350	13,800	14,850	4,700	12,450	1,850
Under age 40	72,050	3,650	10,800	6,300	11,500	2,050	24,500	5,150	5,150	1,550	1,000	500
Without disability	68,650	3,500	10,050	6,000	10,850	1,900	23,700	4,900	5,000	1,350	950	450
With disability	3,400	150	750	300	650	100	800	250	100	150	D	D

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(Number)

Occupation, age, disability status, and sex	Total	4-year educational institution ^a				Other employment sectors						
		Tenured	Not tenured		Tenure not applicable	Other educational institution ^b	Private sector, for profit ^c	Private sector, nonprofit	Federal government	State or local government	Self-employed ^d	Other ^e
			On tenure track	Not on tenure track								
Age 40 and over	135,650	33,100	5,400	9,250	14,050	7,600	31,850	8,700	9,750	3,150	11,450	1,350
Without disability	124,150	29,650	4,700	8,550	12,950	6,900	29,800	7,900	9,150	2,950	10,350	1,300
With disability	11,500	3,450	700	750	1,100	700	2,050	750	600	200	1,050	50
Male	405,700	90,700	25,350	23,850	32,350	8,900	154,100	20,550	24,900	7,800	12,950	4,200
Under age 40	111,450	5,600	16,500	8,250	12,500	1,100	53,200	5,950	4,850	1,950	600	900
Without disability	105,550	5,400	15,450	7,650	11,500	1,050	51,100	5,550	4,600	1,900	550	800
With disability	5,850	150	1,100	600	1,050	S	2,100	400	250	50	S	D
Age 40 and over	294,250	85,100	8,850	15,650	19,800	7,800	100,900	14,600	20,050	5,850	12,350	3,300
Without disability	264,600	76,000	8,200	14,050	17,400	6,750	92,200	13,350	17,900	5,300	10,600	2,850
With disability	29,600	9,150	650	1,550	2,400	1,050	8,650	1,250	2,150	550	1,800	450
Scientist	492,750	108,400	34,900	34,900	52,200	18,100	143,100	29,850	33,300	10,400	23,250	4,350
Under age 40	142,250	7,600	22,550	12,600	21,600	3,100	51,900	9,650	8,100	2,900	1,400	950
Without disability	134,900	7,350	21,200	11,850	20,050	2,950	49,850	9,000	7,800	2,700	1,300	850
With disability	7,350	250	1,350	750	1,550	150	2,050	600	300	150	100	100
Age 40 and over	350,500	100,800	12,350	22,300	30,600	15,000	91,200	20,200	25,200	7,550	21,850	3,450
Without disability	316,600	90,100	11,150	20,250	27,400	13,300	83,800	18,550	22,800	6,950	19,200	3,100
With disability	33,900	10,700	1,200	2,100	3,200	1,700	7,350	1,650	2,400	600	2,650	300
Female	188,700	34,300	14,700	14,800	24,300	9,500	46,300	13,000	13,900	4,150	12,250	1,550
Under age 40	63,400	3,400	9,650	5,900	10,850	2,050	19,450	4,800	4,750	1,250	950	400
Without disability	60,350	3,250	9,000	5,650	10,250	1,900	18,800	4,600	4,600	1,150	900	350
With disability	3,050	150	650	250	600	100	650	250	100	150	D	D
Age 40 and over	125,300	30,900	5,100	8,900	13,450	7,500	26,850	8,200	9,150	2,850	11,300	1,200
Without disability	114,550	27,550	4,350	8,200	12,400	6,800	25,100	7,500	8,600	2,700	10,250	1,100
With disability	10,750	3,350	700	700	1,050	700	1,750	700	600	200	1,050	50
Male	304,050	74,100	20,150	20,100	27,900	8,600	96,750	16,850	19,450	6,300	11,000	2,800
Under age 40	78,850	4,200	12,900	6,700	10,750	1,050	32,450	4,850	3,350	1,600	450	550
Without disability	74,500	4,100	12,200	6,200	9,850	1,000	31,050	4,450	3,200	1,600	400	500
With disability	4,300	100	700	500	950	S	1,350	400	200	D	S	D
Age 40 and over	225,250	69,950	7,250	13,450	17,150	7,500	64,350	12,000	16,050	4,650	10,550	2,250
Without disability	202,050	62,550	6,750	12,050	15,000	6,500	58,700	11,050	14,250	4,250	8,950	2,000
With disability	23,200	7,350	500	1,400	2,150	1,050	5,650	950	1,800	400	1,600	250
Engineer	120,650	19,050	6,650	4,550	5,650	450	67,350	4,550	6,450	2,100	2,150	1,700

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		Tenured	Not tenured		Tenure not applicable	Other educational institution ^b	Private sector, for profit ^c	Private sector, nonprofit	Federal government	State or local government	Self-employed ^d	Other ^e
			On tenure track	Not on tenure track								
Under age 40	41,250	1,650	4,800	1,950	2,400	50	25,800	1,450	1,850	600	200	450
Without disability	39,350	1,550	4,300	1,850	2,250	D	24,900	1,400	1,800	550	200	450
With disability	1,900	S	500	100	150	D	900	D	S	S	D	D
Age 40 and over	79,350	17,400	1,900	2,600	3,250	400	41,550	3,100	4,600	1,500	1,950	1,250
Without disability	72,200	15,500	1,750	2,350	2,950	350	38,200	2,750	4,200	1,350	1,750	1,050
With disability	7,200	1,900	150	200	300	D	3,350	350	350	150	200	S
Female	19,000	2,450	1,500	800	1,250	100	10,050	850	1,000	550	200	300
Under age 40	8,650	250	1,150	400	650	D	5,050	350	400	250	100	100
Without disability	8,300	250	1,050	400	600	D	4,900	300	400	250	100	100
With disability	350	D	S	D	D	D	150	D	D	D	D	D
Age 40 and over	10,350	2,200	300	400	600	100	5,000	500	600	300	100	200
Without disability	9,600	2,100	300	350	550	100	4,700	400	550	250	100	200
With disability	750	150	D	S	D	D	350	S	D	D	D	D
Male	101,600	16,600	5,200	3,750	4,400	300	57,300	3,700	5,450	1,550	1,950	1,400
Under age 40	32,600	1,400	3,600	1,550	1,750	D	20,800	1,100	1,450	350	S	350
Without disability	31,050	1,350	3,250	1,450	1,650	D	20,050	1,100	1,400	350	S	300
With disability	1,550	S	400	100	S	D	750	D	S	D	D	D
Age 40 and over	69,000	15,200	1,550	2,200	2,650	300	36,550	2,600	4,000	1,200	1,800	1,050
Without disability	62,550	13,400	1,450	2,000	2,400	250	33,500	2,300	3,650	1,050	1,650	850
With disability	6,450	1,800	100	150	250	D	3,050	250	350	S	150	S
S&E-related occupations ^g	92,350	12,800	6,250	6,600	10,150	5,950	29,050	9,950	4,750	2,900	2,750	1,200
Under age 40	20,050	500	2,600	1,850	3,450	1,050	6,400	2,550	750	400	200	300
Without disability	19,200	500	2,550	1,800	3,250	950	6,100	2,500	750	400	200	300
With disability	850	D	100	S	200	S	300	50	D	D	D	D
Age 40 and over	72,250	12,350	3,600	4,700	6,750	4,900	22,650	7,350	3,950	2,500	2,550	950
Without disability	65,950	10,750	3,250	4,350	6,250	4,600	21,000	6,800	3,600	2,200	2,250	900
With disability	6,350	1,600	350	400	500	350	1,650	550	350	250	300	D
Female	40,750	6,350	3,850	3,400	5,100	2,850	9,150	4,700	1,850	1,400	1,350	800
Under age 40	9,650	250	1,450	900	1,750	550	2,400	1,400	300	250	150	250
Without disability	9,300	250	1,400	850	1,650	500	2,300	1,350	300	250	150	250
With disability	350	D	S	D	50	D	100	50	D	D	D	D
Age 40 and over	31,100	6,100	2,450	2,550	3,350	2,250	6,750	3,300	1,500	1,150	1,200	550

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			On tenure track	Not on tenure track								
Without disability	28,350	5,350	2,150	2,350	3,100	2,100	6,300	3,000	1,300	1,100	1,050	500
With disability	2,750	700	250	200	250	200	400	300	200	S	150	D
Male	51,600	6,500	2,350	3,150	5,100	3,150	19,900	5,250	2,900	1,500	1,400	400
Under age 40	10,450	250	1,200	1,000	1,700	500	4,000	1,150	450	200	D	D
Without disability	9,900	250	1,150	900	1,550	450	3,800	1,150	450	200	D	D
With disability	500	D	S	D	100	D	200	D	D	D	D	D
Age 40 and over	41,200	6,250	1,200	2,150	3,400	2,650	15,900	4,100	2,450	1,300	1,400	350
Without disability	37,550	5,400	1,100	2,000	3,100	2,500	14,700	3,800	2,300	1,100	1,250	350
With disability	3,600	850	100	200	250	150	1,250	300	150	200	150	D
Non-S&E occupations ^h	151,500	20,250	3,100	6,150	12,800	6,400	68,050	11,600	5,650	3,400	12,600	1,550
Under age 40	24,250	550	1,600	1,150	2,500	850	13,400	1,650	850	500	1,100	100
Without disability	23,000	550	1,550	1,100	2,350	750	12,800	1,550	700	500	1,000	S
With disability	1,250	S	100	50	100	D	600	100	S	D	100	D
Age 40 and over	127,250	19,650	1,500	5,000	10,300	5,550	54,650	10,000	4,800	2,900	11,500	1,450
Without disability	115,750	17,850	1,400	4,500	9,350	5,050	50,000	9,200	4,400	2,500	10,200	1,350
With disability	11,450	1,800	100	500	950	500	4,650	750	400	400	1,300	100
Female	62,750	7,300	1,500	3,550	7,400	4,150	22,750	6,300	2,250	1,800	5,200	500
Under age 40	12,800	200	850	850	1,700	500	6,300	1,100	400	250	600	S
Without disability	12,200	200	800	800	1,650	450	6,050	1,050	350	250	550	D
With disability	650	D	S	D	50	D	250	50	S	D	S	D
Age 40 and over	49,950	7,100	650	2,700	5,700	3,650	16,450	5,200	1,850	1,600	4,600	450
Without disability	45,800	6,450	650	2,400	5,250	3,400	15,100	4,800	1,700	1,400	4,200	450
With disability	4,150	650	50	300	450	250	1,350	350	150	200	400	D
Male	88,750	12,950	1,600	2,650	5,350	2,250	45,300	5,350	3,350	1,600	7,400	1,050
Under age 40	11,450	350	750	350	750	350	7,100	550	400	300	500	D
Without disability	10,800	350	750	300	700	300	6,750	500	350	300	450	D
With disability	650	D	D	D	S	D	350	D	D	D	S	D
Age 40 and over	77,300	12,550	800	2,300	4,600	1,900	38,150	4,800	2,950	1,350	6,900	950
Without disability	70,000	11,400	800	2,100	4,050	1,650	34,850	4,400	2,700	1,100	6,050	850
With disability	7,300	1,150	S	200	500	250	3,300	400	250	200	850	100

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

S&E = science and engineering.

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

^b Includes 2-year colleges, community colleges, or technical institutes, and other precollege institutions.

^c Includes those self-employed in an incorporated business.

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

^e Includes employers not broken out separately.

^f S&E occupations include S&E postsecondary teachers.

^g S&E-related occupations include health-related occupations (e.g., diagnosing practitioners, registered nurses, and postsecondary teachers in health and related sciences), S&E managers, S&E precollege teachers, S&E technicians and technologists, and other S&E-related occupations.

^h Non-S&E occupations do not include S&E-related occupations.

Note(s):

Numbers rounded to nearest 50. Detail may not add to total because of rounding and suppression. Estimates include those employed and living in the United States during the reference week. The Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2019.