

Table 9-27

Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2019

(Number)

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	344,350	160,500	50,850	52,200	80,800
Female	132,500	50,350	21,600	22,500	38,050
Less than 10	49,550	4,250	16,100	10,600	18,600
10–19	43,050	20,700	4,650	6,800	10,900
20–29	26,200	16,200	600	3,750	5,650
30 or more	13,700	9,250	200	1,400	2,900
Male	211,850	110,100	29,300	29,650	42,800
Less than 10	58,550	6,050	21,600	12,950	17,900
10–19	57,650	34,600	6,850	7,000	9,200
20–29	47,450	34,900	600	4,550	7,350
30 or more	48,250	34,550	200	5,150	8,300
S&E occupations ^a	266,300	127,450	41,550	39,450	57,850
Female	94,050	36,750	16,200	15,550	25,550
Less than 10	36,550	2,950	12,400	7,650	13,500
10–19	30,300	15,500	3,300	4,600	6,900
20–29	17,750	11,750	400	2,300	3,300
30 or more	9,450	6,500	100	1,000	1,850
Male	172,250	90,700	25,350	23,850	32,350
Less than 10	50,050	5,200	19,100	11,050	14,700
10–19	47,050	29,250	5,600	5,600	6,600
20–29	37,300	28,300	450	3,550	5,000
30 or more	37,850	28,000	150	3,650	6,050
Science occupations	230,400	108,400	34,900	34,900	52,200
Female	88,050	34,300	14,700	14,800	24,300
Less than 10	33,800	2,750	11,100	7,200	12,750
10–19	28,550	14,400	3,150	4,400	6,600
20–29	16,550	10,900	400	2,200	3,100
30 or more	9,150	6,250	100	1,000	1,800
Male	142,300	74,100	20,150	20,100	27,900
Less than 10	40,750	4,050	14,800	9,200	12,700
10–19	39,500	24,050	4,900	4,850	5,650
20–29	30,300	22,500	350	3,150	4,300
30 or more	31,800	23,500	100	2,950	5,250
Biological/ agricultural/ other life scientist	76,650	27,400	10,450	15,000	23,800
Female	31,550	8,200	4,500	6,450	12,350
Less than 10	13,050	300	2,450	3,150	7,150
10–19	9,950	3,150	1,800	1,900	3,100
20–29	5,550	2,800	200	1,050	1,450
30 or more	3,000	1,950	D	350	700
Male	45,100	19,200	5,950	8,550	11,450
Less than 10	14,200	600	3,150	4,150	6,300
10–19	12,700	5,800	2,500	2,050	2,350
20–29	8,750	5,950	250	1,300	1,250
30 or more	9,500	6,900	50	1,050	1,500
Computer/ information scientist	14,050	6,400	2,700	1,700	3,300
Female	2,700	1,150	600	300	700
Less than 10	1,150	150	550	150	300
10–19	850	500	S	100	200

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(Number)

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
20–29	450	350	D	D	100
30 or more	250	150	D	D	S
Male	11,350	5,250	2,100	1,400	2,650
Less than 10	3,900	350	1,950	600	1,050
10–19	2,950	2,050	150	350	400
20–29	2,650	1,600	D	350	750
30 or more	1,850	1,250	D	150	450
Mathematical scientist	21,600	12,100	3,050	3,100	3,350
Female	6,100	2,600	1,000	1,150	1,400
Less than 10	2,400	350	850	550	650
10–19	1,950	1,150	150	300	350
20–29	1,250	800	D	200	250
30 or more	550	300	D	100	150
Male	15,450	9,550	2,000	2,000	1,950
Less than 10	4,050	600	1,550	1,200	750
10–19	4,450	3,100	450	400	500
20–29	3,350	2,900	D	150	300
30 or more	3,600	2,950	D	250	350
Physical scientist	42,000	20,200	6,300	5,750	9,700
Female	10,900	4,700	1,950	1,700	2,550
Less than 10	4,100	300	1,550	900	1,350
10–19	3,500	1,950	350	450	750
20–29	2,000	1,500	D	200	250
30 or more	1,300	900	D	100	250
Male	31,100	15,550	4,350	4,100	7,100
Less than 10	8,400	500	3,050	1,750	3,100
10–19	8,400	4,750	1,200	1,050	1,400
20–29	6,750	4,850	100	700	1,100
30 or more	7,550	5,450	D	600	1,500
Psychologist	25,900	12,150	4,200	3,400	6,150
Female	15,300	6,300	2,500	2,300	4,200
Less than 10	5,300	500	1,950	950	1,850
10–19	5,100	2,600	400	800	1,300
20–29	3,150	2,050	S	350	650
30 or more	1,750	1,200	D	150	350
Male	10,600	5,850	1,700	1,100	1,950
Less than 10	2,650	500	1,350	400	450
10–19	3,250	2,150	350	300	450
20–29	2,300	1,650	D	250	400
30 or more	2,400	1,550	D	200	650
Social scientist	50,200	30,150	8,200	5,950	5,900
Female	21,500	11,400	4,150	2,950	3,050
Less than 10	7,800	1,150	3,750	1,500	1,450
10–19	7,200	5,100	350	850	900
20–29	4,150	3,400	D	350	400
30 or more	2,300	1,750	D	250	300
Male	28,650	18,750	4,050	3,000	2,850
Less than 10	7,500	1,550	3,750	1,150	1,050

Table 9-27**Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2019**

(Number)

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
10–19	7,700	6,200	300	750	500
20–29	6,500	5,600	D	400	500
30 or more	6,950	5,450	D	700	800
Engineering occupations	35,900	19,050	6,650	4,550	5,650
Female	5,950	2,450	1,500	800	1,250
Less than 10	2,750	200	1,300	450	750
10–19	1,750	1,100	150	200	250
20–29	1,150	900	D	100	200
30 or more	300	250	D	D	50
Male	29,950	16,600	5,200	3,750	4,400
Less than 10	9,300	1,150	4,300	1,850	2,000
10–19	7,550	5,200	700	750	950
20–29	7,000	5,800	100	450	700
30 or more	6,050	4,450	D	750	800
S&E-related occupations ^b	35,800	12,800	6,250	6,600	10,150
Female	18,700	6,350	3,850	3,400	5,100
Less than 10	7,650	900	2,600	1,700	2,450
10–19	6,100	2,600	1,000	1,000	1,500
20–29	3,550	1,900	200	600	850
30 or more	1,400	950	D	100	300
Male	17,100	6,500	2,350	3,150	5,100
Less than 10	4,950	350	1,400	1,200	2,050
10–19	4,900	2,050	850	800	1,200
20–29	3,550	2,050	100	600	850
30 or more	3,650	2,000	D	600	1,000
Non-S&E occupations ^c	42,300	20,250	3,100	6,150	12,800
Female	19,750	7,300	1,500	3,550	7,400
Less than 10	5,400	400	1,150	1,250	2,650
10–19	6,600	2,600	350	1,150	2,500
20–29	4,900	2,550	D	850	1,500
30 or more	2,850	1,800	D	250	750
Male	22,500	12,950	1,600	2,650	5,350
Less than 10	3,550	500	1,150	750	1,200
10–19	5,650	3,300	350	600	1,350
20–29	6,550	4,600	S	400	1,550
30 or more	6,700	4,550	D	900	1,250

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

S&E = science and engineering.

^a S&E occupations include S&E postsecondary teachers.^b 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.^c 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.

Source(s):

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