

Table 9-28

## Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2019

(Number)

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	344,350	113,200	76,200	68,900	23,450	62,600
Female	132,500	31,900	29,800	30,800	10,950	29,050
White	92,800	25,100	21,600	20,750	8,050	17,350
Asian	23,300	3,950	4,600	5,350	1,550	7,850
Black or African American	6,550	1,050	1,750	1,800	400	1,550
Hispanic or Latino <sup>a</sup>	7,200	1,400	1,350	2,100	800	1,600
American Indian or Alaska Native	250	50	100	100	D	S
Native Hawaiian or Other Pacific Islander	200	D	S	100	D	50
More than one race <sup>b</sup>	2,200	300	450	700	150	550
Male	211,850	81,300	46,400	38,100	12,500	33,550
White	147,300	61,000	32,550	23,750	8,850	21,100
Asian	45,650	14,600	9,000	10,200	2,100	9,750
Black or African American	7,150	2,100	1,950	1,650	650	800
Hispanic or Latino <sup>a</sup>	9,150	3,000	2,150	2,000	650	1,400
American Indian or Alaska Native	350	100	150	50	D	50
Native Hawaiian or Other Pacific Islander	150	S	50	D	D	D
More than one race <sup>b</sup>	2,100	500	550	400	150	450
S&E occupations <sup>c</sup>	266,300	86,950	59,550	55,200	19,050	45,550
Female	94,050	21,800	21,550	22,650	8,500	19,500
White	65,050	16,900	15,600	15,450	6,250	10,850
Asian	17,850	2,900	3,550	3,900	1,300	6,200
Black or African American	3,800	600	1,050	1,050	250	800
Hispanic or Latino <sup>a</sup>	5,400	1,100	1,000	1,550	550	1,200
American Indian or Alaska Native	150	50	50	50	D	D
Native Hawaiian or Other Pacific Islander	150	D	D	50	D	D
More than one race <sup>b</sup>	1,650	250	300	600	150	400
Male	172,250	65,150	38,000	32,550	10,550	26,050
White	118,500	48,450	26,550	20,250	7,400	15,850
Asian	38,650	12,250	7,400	8,850	1,900	8,300
Black or African American	5,550	1,650	1,550	1,350	500	500
Hispanic or Latino <sup>a</sup>	7,600	2,350	1,900	1,700	600	1,100
American Indian or Alaska Native	200	50	S	*	D	D
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race <sup>b</sup>	1,700	350	500	400	150	300
Science occupations	230,400	73,200	51,550	47,350	16,950	41,300
Female	88,050	20,200	20,200	21,000	7,900	18,700
White	61,550	16,100	14,650	14,400	5,850	10,500
Asian	16,050	2,300	3,200	3,400	1,150	5,900
Black or African American	3,550	550	1,000	1,000	250	750
Hispanic or Latino <sup>a</sup>	5,100	950	950	1,500	500	1,150
American Indian or Alaska Native	150	50	50	50	D	D
Native Hawaiian or Other Pacific Islander	150	D	D	50	D	D
More than one race <sup>b</sup>	1,600	200	300	550	150	400
Male	142,300	53,000	31,350	26,350	9,000	22,600
White	101,900	41,500	22,700	17,250	6,500	13,950
Asian	27,800	7,900	5,250	6,200	1,450	7,000

Table 9-28

**Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2019**

(Number)

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Black or African American	4,650	1,350	1,350	1,150	450	400
Hispanic or Latino <sup>a</sup>	6,300	1,850	1,550	1,450	500	950
American Indian or Alaska Native	150	S	S	*	D	D
Native Hawaiian or Other Pacific Islander	50	D	D	D	D	D
More than one race <sup>b</sup>	1,400	350	400	300	100	250
Biological/ agricultural/ other life scientist	76,650	19,850	13,900	14,800	4,900	23,300
Female	31,550	5,300	5,450	6,900	2,300	11,550
White	20,650	4,200	3,800	4,850	1,800	6,050
Asian	7,450	700	1,150	1,150	250	4,200
Black or African American	900	50	150	250	100	350
Hispanic or Latino <sup>a</sup>	1,850	250	200	500	150	700
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	50	D	D	D	D	D
More than one race <sup>b</sup>	550	50	100	150	50	200
Male	45,100	14,500	8,450	7,850	2,600	11,700
White	31,750	12,000	5,950	5,000	1,800	7,000
Asian	9,750	1,750	1,650	2,000	550	3,850
Black or African American	1,000	300	200	250	50	200
Hispanic or Latino <sup>a</sup>	2,100	400	450	550	150	550
American Indian or Alaska Native	*	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	50	D	D	D	D	D
More than one race <sup>b</sup>	450	50	150	100	D	100
Computer/ information scientist	14,050	4,200	2,900	3,500	750	2,750
Female	2,700	800	450	700	200	550
White	1,450	450	250	400	100	300
Asian	1,000	300	150	250	50	250
Black or African American	100	D	50	S	D	D
Hispanic or Latino <sup>a</sup>	100	D	D	D	D	D
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	*	D	D	D	D	D
Male	11,350	3,400	2,400	2,800	550	2,200
White	6,550	2,050	1,400	1,600	250	1,300
Asian	4,100	1,200	850	1,050	S	750
Black or African American	250	50	50	100	D	D
Hispanic or Latino <sup>a</sup>	300	50	50	50	50	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	S	D	D	D	D	D
Mathematical scientist	21,600	7,950	5,550	4,400	2,000	1,700
Female	6,100	1,400	1,800	1,450	850	650
White	4,000	1,150	1,100	900	550	300

Table 9-28

**Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2019**

(Number)

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Asian	1,700	200	550	400	300	300
Black or African American	200	D	100	S	D	D
Hispanic or Latino <sup>a</sup>	150	50	*	50	50	D
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	50	D	D	50	D	D
Male	15,450	6,550	3,750	2,950	1,150	1,000
White	10,050	4,400	2,600	1,650	850	550
Asian	4,150	1,650	950	1,000	250	350
Black or African American	400	100	100	150	D	50
Hispanic or Latino <sup>a</sup>	800	400	100	150	50	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	50	D	D	D	D	D
Physical scientist	42,000	14,350	8,500	8,200	3,700	7,250
Female	10,900	2,600	2,450	2,600	1,400	1,800
White	7,850	2,200	1,900	1,800	1,000	1,050
Asian	2,000	300	400	500	300	550
Black or African American	200	D	50	100	D	D
Hispanic or Latino <sup>a</sup>	550	100	100	150	100	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	200	S	50	100	D	S
Male	31,100	11,750	6,050	5,600	2,300	5,450
White	22,900	9,250	4,750	3,900	1,700	3,250
Asian	6,100	1,850	750	1,200	400	1,900
Black or African American	800	200	250	200	100	100
Hispanic or Latino <sup>a</sup>	1,000	350	250	250	50	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	300	S	50	50	50	100
Psychologist	25,900	8,550	6,150	5,900	1,950	3,350
Female	15,300	4,100	3,700	3,850	1,350	2,250
White	11,500	3,350	2,850	2,900	1,000	1,450
Asian	1,450	300	300	350	100	400
Black or African American	950	200	300	300	50	150
Hispanic or Latino <sup>a</sup>	950	200	200	250	100	150
American Indian or Alaska Native	50	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	350	S	50	100	D	100
Male	10,600	4,450	2,450	2,050	600	1,050
White	8,850	3,900	2,000	1,600	500	900
Asian	800	250	200	200	D	100

Table 9-28

**Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2019**

(Number)

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Black or African American	350	150	50	50	D	D
Hispanic or Latino <sup>a</sup>	500	100	200	150	D	S
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	100	S	D	S	D	D
Social scientist	50,200	18,350	14,600	10,550	3,700	3,000
Female	21,500	6,000	6,350	5,450	1,800	1,900
White	16,050	4,800	4,800	3,600	1,400	1,400
Asian	2,400	550	650	800	200	200
Black or African American	1,150	200	350	350	50	150
Hispanic or Latino <sup>a</sup>	1,500	350	450	500	100	100
American Indian or Alaska Native	100	D	D	50	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	400	50	100	150	D	50
Male	28,650	12,350	8,250	5,100	1,900	1,100
White	21,800	9,950	6,000	3,500	1,400	950
Asian	2,900	1,150	900	750	S	D
Black or African American	1,900	600	700	400	200	S
Hispanic or Latino <sup>a</sup>	1,600	500	500	350	200	100
American Indian or Alaska Native	150	D	S	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	350	150	100	100	D	D
Engineering occupations	35,900	13,700	7,950	7,850	2,100	4,250
Female	5,950	1,600	1,350	1,650	600	800
White	3,500	800	900	1,050	400	350
Asian	1,850	600	350	500	150	300
Black or African American	250	100	50	50	D	100
Hispanic or Latino <sup>a</sup>	300	100	50	50	50	50
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	100	50	D	D	D	D
Male	29,950	12,100	6,650	6,200	1,550	3,500
White	16,600	6,950	3,850	3,000	900	1,850
Asian	10,850	4,350	2,150	2,650	450	1,300
Black or African American	850	250	250	200	50	100
Hispanic or Latino <sup>a</sup>	1,300	500	350	250	S	150
American Indian or Alaska Native	50	S	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	250	D	50	50	D	100
S&E-related occupations <sup>d</sup>	35,800	9,650	9,100	9,000	1,450	6,600
Female	18,700	4,150	4,900	5,500	850	3,300
White	13,250	3,400	3,550	3,700	700	1,950
Asian	3,050	400	700	950	50	950

**Table 9-28****Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2019**

(Number)

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Black or African American	1,200	100	400	500	D	200
Hispanic or Latino <sup>a</sup>	850	150	150	300	100	150
American Indian or Alaska Native	50	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	S	D	D	D	D	D
More than one race <sup>b</sup>	250	D	50	50	D	50
Male	17,100	5,550	4,200	3,450	600	3,300
White	11,700	4,200	3,000	2,100	350	2,000
Asian	4,100	1,000	950	950	150	1,050
Black or African American	500	100	150	150	D	50
Hispanic or Latino <sup>a</sup>	550	200	50	150	D	150
American Indian or Alaska Native	50	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	150	D	*	S	D	50
Non-S&E occupations <sup>e</sup>	42,300	16,600	7,550	4,750	2,950	10,450
Female	19,750	6,000	3,350	2,650	1,600	6,250
White	14,500	4,750	2,450	1,600	1,100	4,550
Asian	2,350	650	300	500	200	700
Black or African American	1,550	350	300	250	150	550
Hispanic or Latino <sup>a</sup>	950	150	200	250	150	250
American Indian or Alaska Native	50	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race <sup>b</sup>	300	50	50	S	D	100
Male	22,500	10,650	4,200	2,100	1,350	4,200
White	17,100	8,350	3,000	1,400	1,100	3,250
Asian	2,900	1,350	650	450	S	400
Black or African American	1,150	350	250	150	S	250
Hispanic or Latino <sup>a</sup>	1,000	450	200	100	50	150
American Indian or Alaska Native	100	D	50	D	D	D
Native Hawaiian or Other Pacific Islander	S	D	D	D	D	D
More than one race <sup>b</sup>	250	100	S	D	D	100

\* = value < 25. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

<sup>a</sup> Hispanic or Latino may be any race; race categories exclude Hispanic origin.

<sup>b</sup> Includes persons of more than one race who are not Hispanic or Latino.

<sup>c</sup> S&E occupations include S&E postsecondary teachers.

<sup>d</sup> 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.

<sup>e</sup> 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.