

TABLE 17

## U.S. residing employed doctoral scientists and engineers in 4-year educational institutions, by field of doctorate, sex, and faculty rank: 2023

(Number and SE)

Field of study and sex	All employed		Full professor		Associate professor		Assistant professor		Instructor or lecturer		All other faculty		Rank not applicable	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	341,350	2,475	113,000	1,775	76,550	1,250	65,450	1,175	17,700	725	1,200	175	67,450	1,300
Male	199,700	2,000	77,350	1,525	44,050	1,125	33,900	875	8,150	525	700	150	35,500	975
Female	141,650	1,600	35,650	900	32,500	750	31,550	725	9,550	500	500	125	31,950	775
Science	272,100	2,250	90,150	1,500	60,750	1,250	50,250	1,000	15,100	675	1,050	175	54,800	1,075
Male	156,000	1,775	60,650	1,300	34,700	1,075	25,600	775	6,850	475	650	150	27,550	775
Female	116,100	1,475	29,500	850	26,050	725	24,650	675	8,250	475	400	100	27,250	725
Biological, agricultural, and environmental life sciences	94,000	1,250	26,600	800	18,150	650	18,200	625	4,550	450	450	150	26,050	700
Male	51,000	1,050	17,900	725	9,750	525	9,300	525	1,750	300	300	125	11,950	525
Female	43,000	900	8,700	425	8,400	425	8,900	400	2,800	300	150	50	14,100	575
Agricultural and food sciences	7,200	325	2,850	275	1,200	150	1,250	150	300	125	S	S	1,500	150
Male	4,750	300	2,200	250	750	125	700	100	250	125	D	D	800	125
Female	2,400	175	650	125	450	75	550	100	100	25	D	D	700	100
Biochemistry and biophysics	10,550	550	3,450	350	2,050	250	1,450	225	550	175	D	D	3,050	300
Male	6,350	425	2,500	325	1,100	200	850	175	300	125	D	D	1,600	225
Female	4,200	350	950	150	950	175	600	125	250	125	D	D	1,500	225
Cell, cellular biology, and molecular biology	12,200	575	2,850	275	2,600	300	2,150	275	600	175	D	D	4,000	325
Male	6,400	450	1,700	225	1,300	225	1,300	225	S	S	D	D	1,950	275
Female	5,850	400	1,100	175	1,300	200	850	175	500	150	D	D	2,050	250
Microbiological sciences and immunology	8,900	450	2,100	225	1,950	250	1,900	225	550	150	D	D	2,400	225
Male	4,400	400	1,300	200	1,100	225	850	175	S	S	D	D	1,000	150
Female	4,450	250	800	125	850	125	1,050	150	350	100	D	D	1,400	150
Natural resources and conservation	3,350	175	1,000	125	750	100	600	75	250	100	D	D	800	100
Male	2,050	150	700	100	400	75	300	75	150	75	D	D	400	100
Female	1,300	100	300	50	300	75	250	50	100	25	D	D	350	75
Zoology	3,150	225	1,450	175	700	125	350	75	100	50	D	D	550	100
Male	2,000	175	1,100	175	500	100	150	50	D	D	D	D	150	75
Female	1,150	125	300	75	200	75	200	75	50	50	D	D	350	75
Other biological sciences	48,650	850	13,000	600	8,950	475	10,550	500	2,200	250	200	75	13,750	425
Male	25,050	725	8,400	525	4,600	350	5,150	375	750	150	100	50	6,050	350
Female	23,650	550	4,600	325	4,350	300	5,400	325	1,450	200	100	50	7,700	350
Computer and information sciences	12,400	550	4,200	400	3,400	275	3,050	275	500	150	D	D	1,200	175
Male	9,100	500	3,350	350	2,550	250	2,050	225	350	100	D	D	800	125
Female	3,300	250	850	175	800	125	1,000	150	150	50	D	D	450	125
Mathematics and statistics	19,900	725	7,950	450	5,150	400	3,800	275	1,250	150	D	D	1,700	200
Male	14,450	550	6,450	400	3,650	325	2,450	250	850	125	D	D	1,050	150

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**U.S. residing employed doctoral scientists and engineers in 4-year educational institutions, by field of doctorate, sex, and faculty rank: 2023**

(Number and SE)

Field of study and sex	All employed		Full professor		Associate professor		Assistant professor		Instructor or lecturer		All other faculty		Rank not applicable	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Female	5,450	350	1,500	175	1,500	175	1,350	175	400	75	D	D	650	150
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	46,050	950	16,200	675	8,700	500	6,400	350	2,600	250	150	50	12,000	500
Male	32,650	950	12,700	650	6,150	425	3,850	325	1,500	225	100	50	8,400	450
Female	13,400	450	3,500	325	2,550	225	2,550	200	1,150	150	50	25	3,600	250
Astronomy and astrophysics	2,900	200	900	125	500	100	500	75	100	50	D	D	900	125
Male	2,100	175	700	125	400	75	300	75	50	50	D	D	650	125
Female	800	100	200	50	100	50	200	50	50	25	D	D	250	50
Chemistry, except biochemistry	19,800	725	6,950	450	4,100	375	2,650	250	1,350	175	D	D	4,750	375
Male	13,250	625	5,200	425	2,800	325	1,500	225	650	125	D	D	3,100	300
Female	6,550	375	1,700	250	1,300	175	1,150	150	700	125	D	D	1,700	225
Geosciences, atmospheric sciences, and ocean sciences	10,100	275	3,300	200	1,800	150	1,800	150	500	100	100	50	2,600	175
Male	6,400	250	2,450	200	1,150	125	850	125	250	75	50	50	1,600	150
Female	3,750	175	850	100	600	75	950	100	250	50	50	25	1,050	100
Physics	13,250	625	5,100	450	2,300	300	1,450	200	650	175	D	D	3,750	300
Male	10,900	600	4,300	400	1,800	275	1,250	200	500	150	D	D	3,050	300
Female	2,300	250	750	175	550	150	200	75	150	75	D	D	650	100
Psychology	38,600	850	13,100	575	8,750	475	7,350	400	2,050	225	S	S	7,250	450
Male	14,550	475	6,200	400	3,350	300	2,200	225	600	125	D	D	2,100	250
Female	24,050	700	6,850	425	5,400	350	5,150	350	1,450	175	S	S	5,150	400
Social sciences	61,150	1,025	22,100	750	16,600	525	11,450	425	4,200	350	300	75	6,550	400
Male	34,200	800	14,000	575	9,200	475	5,750	350	1,800	225	200	75	3,250	325
Female	26,900	725	8,050	475	7,400	375	5,700	300	2,350	250	100	50	3,300	225
Economics	13,950	600	5,800	425	3,750	325	2,650	250	800	200	D	D	900	175
Male	10,050	525	4,550	400	2,850	300	1,650	225	300	125	D	D	700	150
Female	3,900	275	1,250	175	900	150	1,000	150	500	175	D	D	250	75
Political science and government	13,200	525	5,250	350	3,650	325	2,550	250	600	150	D	D	1,150	175
Male	8,450	450	3,500	325	2,400	275	1,450	175	350	125	D	D	700	150
Female	4,750	275	1,700	225	1,250	175	1,100	150	200	75	D	D	450	100
Sociology, demography, and population studies	10,600	400	3,750	300	2,850	250	2,000	200	550	150	100	50	1,300	200
Male	4,750	300	1,900	225	1,100	200	900	175	250	125	D	D	500	125
Female	5,850	325	1,900	200	1,750	200	1,100	125	300	100	D	D	800	150
Other social sciences	23,400	550	7,300	400	6,350	300	4,250	250	2,250	175	100	50	3,150	250
Male	10,950	375	4,050	275	2,800	225	1,750	175	900	125	50	50	1,350	200
Female	12,400	400	3,250	275	3,550	250	2,500	175	1,350	125	S	S	1,800	175
Engineering	47,200	1,100	17,100	725	9,600	575	9,250	500	1,750	200	100	50	9,450	525

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	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Male	36,750	925	14,500	675	7,700	500	6,500	425	1,050	175	D	D	7,000	450
Female	10,400	525	2,600	225	1,900	200	2,700	275	700	125	D	D	2,450	200
Aerospace, aeronautical, and astronautical engineering	2,350	225	950	175	400	75	500	125	D	D	D	D	500	100
Male	2,050	200	900	175	300	75	450	125	D	D	D	D	400	75
Female	300	75	50	25	100	50	50	25	D	D	D	D	100	50
Chemical engineering	3,400	300	1,500	225	550	150	650	150	150	75	D	D	600	125
Male	2,450	300	1,250	250	450	150	350	100	D	D	D	D	400	100
Female	950	175	250	75	100	50	300	100	D	D	D	D	250	75
Civil engineering	6,900	425	2,500	325	1,550	225	1,500	225	200	75	D	D	1,150	200
Male	5,250	375	2,050	300	1,250	200	1,000	225	150	75	D	D	800	175
Female	1,650	175	500	125	300	75	450	100	100	50	D	D	300	75
Electrical and computer engineering	10,750	575	4,600	425	2,300	300	1,850	200	350	100	D	D	1,650	225
Male	9,050	550	3,950	400	2,100	300	1,400	175	150	75	D	D	1,450	225
Female	1,700	200	650	125	250	75	400	100	200	75	D	D	200	75
Mechanical engineering	7,900	550	2,550	350	1,950	275	1,600	275	350	100	D	D	1,500	225
Male	6,650	500	2,250	350	1,650	250	1,250	250	250	100	D	D	1,250	225
Female	1,300	175	300	100	250	75	350	125	100	50	D	D	250	75
Metallurgical and materials engineering	2,800	300	750	200	300	100	400	100	150	75	D	D	1,200	200
Male	2,150	300	600	175	200	100	250	75	S	S	D	D	950	175
Female	650	100	100	75	100	50	150	75	D	D	D	D	250	75
Other engineering	13,100	550	4,250	325	2,550	275	2,800	250	550	125	D	D	2,850	225
Male	9,200	475	3,500	300	1,750	225	1,850	200	350	100	D	D	1,750	200
Female	3,850	275	750	100	800	150	950	150	200	75	D	D	1,100	125
Health	22,100	575	5,750	350	6,200	350	5,950	300	900	175	S	S	3,250	250
Male	6,950	400	2,200	250	1,700	175	1,750	175	300	100	D	D	950	125
Female	15,150	475	3,550	275	4,500	300	4,200	275	600	125	D	D	2,250	225

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

SE = standard error.

**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. Four-year educational institutions include 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes. 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.