TABLE 17

U.S. residing employed doctoral scientists and engineers in 4-year educational institutions, by field of doctorate, sex, and faculty rank: 2021

(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	340,950	2,450	112,150	1,850	76,550	1,375	68,500	1,250	20,200	725	1,500	225	62,050	1,275
Male	204,700	2,175	78,450	1,625	45,000	1,225	37,050	950	10,200	575	850	175	33,100	950
Female	136,250	1,375	33,650	825	31,550	675	31,450	675	10,000	425	650	125	28,950	825
Science	272,450	2,175	89,100	1,500	60,300	1,225	52,550	1,125	17,650	700	1,350	200	51,450	1,125
Male	160,900	1,875	61,650	1,225	35,300	1,075	27,950	825	8,750	550	800	175	26,500	825
Female	111,550	1,300	27,450	750	25,050	650	24,600	600	8,900	400	550	125	24,950	825
Biological, agricultural, and environmental life sciences	95,500	1,375	26,400	825	18,850	700	18,000	625	5,800	450	550	150	25,950	825
Male	53,800	1,150	18,150	750	11,050	625	9,150	475	2,850	400	250	125	12,350	575
Female	41,700	875	8,250	425	7,800	400	8,850	350	2,950	275	250	100	13,600	600
Agricultural and food sciences	7,350	350	2,650	225	1,650	250	1,200	125	300	100	D	D	1,500	175
Male	5,000	300	2,150	200	1,250	225	650	125	200	100	D	D	750	150
Female	2,350	175	500	75	400	100	550	75	100	50	D	D	750	100
Biochemistry and biophysics	11,150	550	3,300	325	2,000	225	1,650	250	450	100	D	D	3,700	350
Male	7,150	450	2,500	300	1,200	200	1,000	175	250	75	D	D	2,100	250
Female	4,050	325	800	175	800	150	650	150	200	75	D	D	1,600	225
Cell, cellular biology, and molecular biology	12,900	525	2,750	300	2,850	325	2,200	275	800	175	D	D	4,300	400
Male	6,850	450	1,600	275	1,600	250	1,250	225	300	100	D	D	2,100	325
Female	6,100	350	1,100	175	1,250	175	1,000	175	500	150	D	D	2,200	250
Microbiological sciences and immunology	9,050	425	2,100	275	2,100	275	1,800	200	400	125	D	D	2,600	250
Male	4,500	400	1,150	225	1,350	250	850	150	S	S	D	D	1,050	175
Female	4,550	300	900	175	750	125	950	150	300	100	D	D	1,600	200
Natural resources and conservation	3,600	200	950	125	750	100	650	75	400	125	D	D	750	100
Male	2,300	175	750	125	400	75	350	50	250	100	D	D	500	75
Female	1,300	100	200	50	350	75	300	50	150	50	D	D	300	50
Zoology	3,550	250	1,750	225	600	125	300	75	150	50	D	D	700	125
Male	2,350	225	1,350	200	450	100	100	50	100	50	D	D	300	75
Female	1,200	125	400	100	150	50	150	50	50	50	D	D	400	100
Other biological sciences	47,900	975	12,900	600	8,850	450	10,150	450	3,300	350	300	100	12,400	575
Male	25,700	750	8,550	525	4,800	400	4,900	350	1,650	325	150	75	5,650	425
Female	22,200	625	4,300	275	4,050	300	5,250	300	1,650	175	150	75	6,750	375
Computer and information sciences	11,850	450	4,100	350	2,950	275	3,200	275	600	150	D	D	1,050	150
Male	8,950	425	3,350	350	2,150	250	2,300	250	350	125	D	D	750	125
Female	2,900	250	750	150	750	150	850	125	200	75	D	D	300	100
Mathematics and statistics	20,250	625	8,150	375	4,600	375	4,600	350	1,500	200	S	S	1,250	175
Male	15,200	550	6,550	350	3,300	350	3,350	300	1,100	175	D	D	750	150
Female	5,050	300	1,550	175	1,300	150	1,300	200	400	100	D	D	500	125
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	45,900	1,025	15,500	600	8,950	450	7,150	375	2,950	275	200	100	11,100	475

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(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
Male	33,250	825	12,350	525	6,450	425	4,750	325	1,750	200	200	100	7,750	425
Female	12,600	525	3,100	275	2,500	225	2,400	200	1,200	175	D	D	3,350	275
Astronomy and astrophysics	3,050	225	900	150	650	125	550	75	S	S	D	D	850	125
Male	2,200	200	700	150	550	125	300	75	D	D	D	D	600	125
Female	850	100	200	50	100	50	250	75	50	25	D	D	250	75
Chemistry, except biochemistry	19,750	725	6,550	400	4,150	350	3,100	300	1,500	200	D	D	4,400	325
Male	13,850	600	5,050	350	2,900	300	2,100	250	750	150	D	D	3,050	325
Female	5,900	350	1,500	200	1,250	175	1,000	150	800	150	D	D	1,350	175
Geosciences, atmospheric sciences, and ocean sciences	9,850	325	3,250	225	1,750	175	1,600	150	700	100	50	50	2,500	175
Male	6,300	300	2,450	200	1,100	150	850	125	400	75	S	S	1,500	125
Female	3,550	200	800	100	650	100	750	100	300	75	D	D	1,000	125
Physics	13,250	575	4,800	425	2,450	250	1,850	225	650	150	D	D	3,400	325
Male	10,900	525	4,200	400	1,950	250	1,450	200	600	150	D	D	2,650	275
Female	2,350	250	600	150	500	100	400	100	100	50	D	D	750	175
Psychology	38,700	800	13,400	600	9,100	475	7,750	450	2,250	250	200	75	6,050	400
Male	15,250	600	6,850	450	3,650	300	2,150	250	600	125	D	D	1,900	225
Female	23,450	650	6,550	450	5,400	350	5,600	400	1,650	225	150	75	4,150	325
Social sciences	60,250	950	21,650	650	15,900	525	11,900	475	4,550	325	300	100	6,000	425
Male	34,450	825	14,400	550	8,600	450	6,250	400	2,050	250	150	75	2,950	325
Female	25,800	650	7,250	375	7,300	400	5,600	300	2,500	250	100	50	3,050	250
Economics	14,300	575	6,050	425	3,700	350	2,700	250	700	175	D	D	1,050	225
Male	10,200	525	4,850	375	2,500	300	1,800	225	350	125	D	D	700	175
Female	4,100	325	1,200	175	1,200	175	900	125	350	150	D	D	400	100
Political science and government	12,900	500	4,950	350	3,200	250	2,800	325	600	125	D	D	1,250	200
Male	8,350	425	3,650	325	2,050	225	1,500	250	350	100	D	D	750	125
Female	4,500	300	1,300	175	1,150	175	1,300	200	200	75	D	D	500	125
Sociology, demography, and population studies	10,600	450	3,700	300	2,950	300	2,000	200	750	150	D	D	1,100	175
Male	4,950	325	1,900	250	1,350	225	1,000	175	250	100	D	D	450	125
Female	5,650	300	1,800	175	1,600	200	1,000	125	500	125	D	D	650	150
Other social sciences	22,450	500	6,900	350	6,000	325	4,350	250	2,500	225	150	50	2,550	225
Male	10,950	400	4,000	275	2,700	250	1,950	200	1,100	150	50	50	1,100	175
Female	11,500	375	2,900	250	3,300	250	2,350	175	1,400	175	S	S	1,450	150
Engineering	46,850	1,150	17,250	750	10,250	500	9,650	550	1,800	225	50	50	7,900	450
Male	36,500	1,025	14,450	700	7,900	475	7,250	500	1,150	200	S	S	5,700	425
Female	10,400	475	2,750	275	2,350	225	2,400	250	650	100	D	D	2,200	200
Aerospace, aeronautical, and astronautical engineering	1,700	200	750	175	250	75	350	75	D	D	D	D	300	75
Male	1,500	200	700	175	200	75	300	75	D	D	D	D	250	75
Female	200	50	50	25	50	25	*	*	D	D	D	D	50	25
Chemical engineering	3,750	375	1,450	225	700	200	750	175	150	75	D	D	700	150
Male	2,900	350	1,250	200	600	200	500	150	D	D	D	D	500	150
Female	850	150	200	75	100	50	250	75	D	D	D	D	150	75

TABLE 17

U.S. residing employed doctoral scientists and engineers in 4-year educational institutions, by field of doctorate, sex, and faculty rank: 2021

(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
Civil engineering	6,600	400	2,200	250	1,850	250	1,350	175	350	125	D	D	850	125
Male	5,000	375	1,750	225	1,500	225	950	175	S	S	D	D	600	125
Female	1,600	175	450	100	350	75	400	75	150	50	D	D	200	75
Electrical and computer engineering	10,600	500	4,750	400	2,200	250	2,150	300	250	75	D	D	1,300	200
Male	8,900	500	3,950	375	1,800	225	1,950	300	150	50	D	D	1,100	200
Female	1,750	225	800	150	400	125	250	75	100	50	D	D	200	75
Mechanical engineering	7,650	475	2,550	325	1,750	275	1,800	250	400	100	D	D	1,100	150
Male	6,100	475	2,250	325	1,350	225	1,300	200	350	100	D	D	850	150
Female	1,550	250	300	100	450	150	500	125	100	50	D	D	300	75
Metallurgical and materials engineering	3,300	350	1,250	225	450	125	500	100	S	S	D	D	950	175
Male	2,500	300	1,100	225	250	100	350	100	D	D	D	D	700	175
Female	800	150	200	75	200	100	150	50	50	50	D	D	250	75
Other engineering	13,250	475	4,200	300	3,000	250	2,800	275	450	75	S	S	2,700	225
Male	9,600	450	3,450	300	2,200	225	1,950	225	250	75	D	D	1,650	175
Female	3,700	250	750	125	800	150	900	175	200	50	D	D	1,050	125
Health	21,600	600	5,800	350	6,050	375	6,300	325	750	125	D	D	2,700	200
Male	7,300	375	2,350	225	1,850	250	1,850	200	350	125	D	D	900	125
Female	14,300	475	3,450	275	4,200	300	4,450	300	450	75	D	D	1,750	175

* = suppressed when population estimate < 25. 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 2021.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2021.