TABLE 20

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

(Number and SE)

Field of study and sex	All employed		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	340,950	2,450	157,000	1,775	50,550	1,025	53,550	1,225	79,850	1,425
Male	204,700	2,175	104,600	1,650	28,350	825	29,400	875	42,400	1,175
Female	136,250	1,375	52,400	1,000	22,200	625	24,200	800	37,450	900
Science	272,450	2,175	125,900	1,600	38,000	950	43,150	1,025	65,400	1,350
Male	160,900	1,875	82,550	1,350	20,700	725	23,700	825	33,950	1,050
Female	111,550	1,300	43,350	925	17,300	525	19,450	700	31,450	875
Biological, agricultural, and environmental life sciences	95,500	1,375	35,900	1,000	12,550	550	18,150	650	28,900	850
Male	53,800	1,150	23,850	875	6,550	400	9,850	475	13,600	575
Female	41,700	875	12,050	550	6,000	325	8,300	475	15,350	625
Agricultural and food sciences	7,350	350	3,700	250	950	125	1,150	175	1,550	200
Male	5,000	300	2,950	250	500	100	650	125	900	175
Female	2,350	175	750	100	450	75	450	100	650	100
Biochemistry and biophysics	11,150	550	4,500	375	900	175	2,350	275	3,400	325
Male	7,150	450	3,300	325	600	150	1,600	250	1,650	225
Female	4,050	325	1,250	200	350	100	750	125	1,700	275
Cell, cellular biology, and molecular biology	12,900	525	4,250	375	1,400	225	2,200	275	5,050	425
Male	6,850	450	2,450	325	700	150	1,300	200	2,400	325
Female	6,100	350	1,800	200	700	175	900	175	2,650	250
Microbiological sciences and immunology	9,050	425	2,950	275	1,250	175	1,700	250	3,200	300
Male	4,500	400	1,750	250	650	150	850	200	1,250	200
Female	4,550	300	1,200	175	600	100	800	175	1,950	200
Natural resources and conservation	3,600	200	1,500	150	450	75	700	100	1,000	125
Male	2,300	175	1,050	150	200	50	350	75	650	125
Female	1,300	100	450	75	200	50	300	75	350	50
Zoology	3,550	250	2,150	225	250	75	500	100	600	125
Male	2,350	225	1,650	200	100	50	300	75	250	75
Female	1,200	125	500	100	150	50	200	75	350	100
Other biological sciences	47,900	975	16,800	700	7,350	425	9,600	475	14,200	550
Male	25,700	750	10,650	525	3,750	300	4,750	350	6,500	375
Female	22,200	625	6,100	375	3,600	275	4,800	325	7,700	400
Computer and information sciences	11,850	450	6,100	400	2,800	275	1,150	200	1,800	250
Male	8,950	425	4,850	350	2,000	250	750	150	1,400	225
Female	2,900	250	1,250	175	800	125	400	125	450	100
Mathematics and statistics	20,250	625	11,650	475	3,000	300	2,850	300	2,800	275
Male	15,200	550	9,100	425	2,100	275	2,250	275	1,750	250
Female	5,050	300	2,550	225	900	150	650	125	1,000	150
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	45,900	1,025	21,100	725	5,300	325	7,400	500	12,100	625
Male	33,250	825	16,050	625	3,650	300	5,200	425	8,350	500
Female	12,600	525	5,050	325	1,600	175	2,200	250	3,750	325
Astronomy and astrophysics	3,050	225	1,350	175	400	75	550	100	750	125
Male	2,200	200	1,100	175	200	75	400	100	450	125
Female	850	100	250	50	150	50	150	50	300	75
Chemistry, except biochemistry	19,750	725	9,400	500	2,250	250	2,950	300	5,150	450
Male	13,850	600	6,750	400	1,650	225	2,000	275	3,450	375
Female	5,900	350	2,650	250	600	100	950	150	1,700	225

TABLE 20

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

(Number and SE)

Field of study and sex	All employed		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Geosciences, atmospheric sciences, and ocean sciences	9,850	325	4,450	275	1,200	125	1,600	150	2,600	175
Male	6,300	300	3,150	250	650	100	900	125	1,600	150
Female	3,550	200	1,300	125	550	75	700	100	1,000	125
Physics	13,250	575	5,950	425	1,450	200	2,250	275	3,550	325
Male	10,900	525	5,050	400	1,150	175	1,850	250	2,850	300
Female	2,350	250	900	150	300	75	400	150	700	150
Psychology	38,700	800	17,750	650	4,750	325	5,950	375	10,250	475
Male	15,250	600	8,200	450	1,450	175	1,950	250	3,650	325
Female	23,450	650	9,550	475	3,300	300	4,000	300	6,600	375
Social sciences	60,250	950	33,500	725	9,650	475	7,600	400	9,500	500
Male	34,450	825	20,550	600	4,950	375	3,750	300	5,200	375
Female	25,800	650	12,950	525	4,700	300	3,900	300	4,300	300
Economics	14,300	575	8,450	475	2,550	250	1,600	250	1,700	250
Male	10,200	525	6,450	425	1,650	225	800	150	1,300	250
Female	4,100	325	2,000	225	900	150	800	175	400	100
Political science and government	12,900	500	7,450	400	2,150	275	1,250	175	2,000	275
Male	8,350	425	5,150	350	1,150	200	850	150	1,200	200
Female	4,500	300	2,300	225	1,000	175	400	100	750	150
Sociology, demography, and population studies	10,600	450	6,000	350	1,600	175	1,150	175	1,800	250
Male	4,950	325	2,900	275	750	150	400	125	850	175
Female	5,650	300	3,100	225	850	100	750	125	950	175
Other social sciences	22,450	500	11,550	375	3,350	225	3,550	225	4,000	275
Male	10,950	400	6,050	325	1,400	175	1,700	175	1,850	200
Female	11,500	375	5,500	300	1,950	150	1,900	175	2,150	175
Engineering	46,850	1,150	23,050	775	8,400	475	5,850	425	9,550	450
Male	36,500	1,025	19,050	750	6,300	450	4,300	350	6,850	400
Female	10,400	475	3,950	325	2,100	225	1,550	200	2,750	250
Aerospace, aeronautical, and astronautical engineering	1,700	200	900	175	200	75	250	75	350	75
Male	1,500	200	800	175	200	75	250	75	300	75
Female	200	50	100	25	*	*	*	*	50	25
Chemical engineering	3,750	375	1,850	225	600	150	400	125	900	200
Male	2,900	350	1,550	225	450	150	250	100	650	200
Female	850	150	300	100	150	75	150	75	250	75
Civil engineering	6,600	400	3,500	300	1,150	150	850	175	1,100	175
Male	5,000	375	2,850	300	800	150	550	150	800	150
Female	1,600	175	650	125	350	75	300	75	300	75
Electrical and computer engineering	10,600	500	5,850	400	2,000	300	1,050	200	1,750	225
Male	8,900	500	4,900	375	1,650	275	900	175	1,400	200
Female	1,750	225	950	175	300	125	150	75	350	75
Mechanical engineering	7,650	475	3,900	400	1,600	225	900	175	1,250	200
Male	6,100	475	3,300	375	1,100	200	750	150	900	175
Female	1,550	250	600	175	500	125	150	75	300	75
Metallurgical and materials engineering	3,300	350	1,450	225	400	100	550	175	900	175
Male	2,500	300	1,150	225	300	75	450	175	650	175
Female	800	150	300	100	100	50	100	50	250	75
Other engineering	13,250	475	5,600	325	2,400	275	1,850	200	3,350	250

TABLE 20

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

(Number and SE)

Field of study and sex	All employed		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Male	9,600	450	4,500	325	1,750	225	1,200	150	2,100	200
Female	3,700	250	1,100	125	650	125	700	150	1,250	175
Health	21,600	600	8,050	450	4,100	250	4,550	375	4,900	325
Male	7,300	375	3,000	225	1,350	150	1,400	225	1,600	200
Female	14,300	475	5,050	350	2,800	225	3,200	300	3,300	275

* = suppressed when population estimate < 25.

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.