TABLE 2

U.S. residing doctoral scientists and engineers, by field of doctorate, sex, and employment status: 2021

(Number and SE)

Field of study and sex	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	1,023,650	1,925	872,100	2,425	779,600	2,425	92,500	1,375	16,650	775	114,750	1,525	20,150	800
Male	640,350	1,950	543,550	2,350	496,950	2,175	46,650	1,025	10,300	600	79,200	1,350	7,300	525
Female	383,250	1,050	328,500	1,250	282,650	1,275	45,850	950	6,350	425	35,550	825	12,850	600
Science	767,500	1,675	647,300	2,000	571,050	2,075	76,250	1,225	11,850	675	91,750	1,400	16,600	725
Male	452,800	1,825	378,200	2,000	341,700	1,900	36,500	925	6,850	500	62,150	1,200	5,650	450
Female	314,650	1,250	269,100	1,300	229,350	1,325	39,750	900	5,000	400	29,550	750	11,000	600
Biological, agricultural, and environmental life sciences	265,700	1,050	226,850	1,275	208,550	1,325	18,300	675	3,800	325	29,050	750	6,000	425
Male	148,000	1,275	125,000	1,225	116,050	1,250	8,950	500	2,050	225	19,150	725	1,800	250
Female	117,700	825	101,850	900	92,500	850	9,300	450	1,750	225	9,900	425	4,200	350
Agricultural and food sciences	21,050	350	16,600	350	15,150	375	1,450	200	450	100	3,650	325	350	75
Male	14,600	350	11,250	350	10,400	325	850	150	300	100	3,000	325	100	50
Female	6,450	225	5,350	225	4,750	200	600	125	150	50	650	125	250	75
Biochemistry and biophysics	35,250	450	29,550	600	27,050	600	2,500	250	350	150	4,300	400	1,100	225
Male	21,350	550	18,050	550	16,500	525	1,550	250	150	75	2,750	325	400	150
Female	13,950	425	11,450	425	10,550	425	900	150	S	S	1,550	225	700	175
Cell, cellular biology, and molecular biology	36,000	350	32,300	450	30,050	525	2,250	325	500	150	2,500	300	700	150
Male	18,050	475	16,300	475	15,200	550	1,150	225	250	125	1,350	225	100	75
Female	17,900	450	16,000	450	14,900	450	1,100	200	200	75	1,150	175	600	125
Microbiological sciences and immunology	28,750	300	24,750	425	23,150	450	1,650	225	400	125	2,900	275	650	150
Male	14,650	400	12,350	425	11,650	450	700	175	300	100	1,900	250	150	75
Female	14,100	375	12,450	375	11,500	375	950	175	150	50	1,000	125	500	125
Natural resources and conservation	11,150	225	9,000	225	7,950	250	1,050	150	200	50	1,750	175	200	75
Male	7,500	225	5,800	200	5,150	225	650	125	150	50	1,500	200	S	S
Female	3,650	150	3,200	150	2,800	150	400	75	50	25	300	75	100	50
Zoology	9,100	200	6,850	250	6,150	225	750	125	200	75	1,900	175	150	75
Male	6,350	200	4,650	250	4,150	200	500	125	200	75	1,500	175	D	D
Female	2,800	150	2,250	125	2,000	125	250	75	D	D	450	75	100	50
Other biological sciences	124,400	675	107,800	850	99,100	850	8,700	350	1,750	200	12,000	525	2,800	275
Male	65,500	825	56,600	825	53,050	850	3,600	275	750	125	7,200	425	900	175
Female	58,900	625	51,150	675	46,050	700	5,100	300	1,000	175	4,800	325	1,900	225
Computer and information sciences	36,650	400	33,600	425	31,650	475	1,950	250	400	100	2,100	200	550	150
Male	29,450	425	27,350	425	25,850	475	1,500	225	350	100	1,500	175	250	125
Female	7,200	275	6,250	275	5,800	275	500	100	50	50	600	75	300	75
Mathematics and statistics	42,950	525	36,600	575	33,850	575	2,750	250	450	100	4,750	325	1,150	225
Male	32,850	525	28,100	575	26,050	575	2,050	225	350	100	3,800	300	550	175
Female	10,100	350	8,500	350	7,800	325	700	125	100	50	900	125	550	150

TABLE 2

U.S. residing doctoral scientists and engineers, by field of doctorate, sex, and employment status: 2021

(Number and SE)

Field of study and sex	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	163,600	875	137,050	1,025	125,600	1,075	11,450	525	3,150	350	20,750	725	2,750	300
Male	122,600	875	101,250	975	93,050	1,000	8,200	500	2,250	300	17,950	675	1,200	175
Female	41,000	675	35,750	725	32,550	675	3,250	300	900	150	2,800	200	1,550	225
Astronomy and astrophysics	7,250	125	6,350	175	5,850	175	500	75	100	50	750	125	100	50
Male	5,550	150	4,700	175	4,400	175	350	75	50	50	700	125	D	D
Female	1,700	100	1,600	100	1,450	100	150	50	D	D	50	25	D	D
Chemistry, except biochemistry	80,500	650	66,350	800	61,100	775	5,250	375	1,800	300	10,750	525	1,600	225
Male	56,800	725	46,050	775	42,500	750	3,550	325	1,250	250	8,900	500	600	125
Female	23,700	550	20,300	575	18,550	550	1,700	250	550	150	1,850	175	1,000	200
Geosciences, atmospheric sciences, and ocean sciences	26,950	275	22,050	325	19,750	325	2,350	200	600	125	3,800	225	450	75
Male	18,550	300	14,700	325	13,250	325	1,500	175	400	100	3,250	225	200	75
Female	8,350	225	7,350	225	6,500	225	850	100	200	50	550	75	250	50
Physics	48,900	650	42,300	675	38,900	700	3,350	325	600	125	5,400	425	600	150
Male	41,650	650	35,750	700	32,900	750	2,850	300	500	125	5,050	400	350	100
Female	7,250	400	6,500	375	6,000	400	500	125	100	50	350	100	250	125
Psychology	137,550	550	113,500	825	84,500	1,000	29,000	825	1,550	200	18,450	675	4,050	450
Male	52,100	825	41,050	900	31,800	800	9,250	525	550	125	9,350	525	1,100	275
Female	85,500	775	72,450	825	52,700	825	19,750	725	1,000	175	9,100	475	2,950	375
Social sciences	121,000	950	99,700	1,000	86,900	875	12,750	625	2,500	300	16,650	575	2,200	275
Male	67,800	850	55,400	850	48,850	825	6,500	450	1,300	225	10,400	550	750	175
Female	53,200	650	44,300	650	38,050	675	6,250	375	1,200	200	6,250	325	1,450	225
Economics	32,250	550	27,300	550	24,200	550	3,100	300	400	100	4,050	350	550	175
Male	22,850	575	19,000	575	16,900	575	2,100	250	250	75	3,350	325	250	125
Female	9,400	375	8,300	375	7,300	350	1,000	150	150	75	700	100	250	125
Political science and government	24,050	550	20,500	550	18,550	525	1,900	225	550	150	2,500	300	500	150
Male	14,850	475	12,800	475	11,650	450	1,100	200	350	125	1,600	225	150	75
Female	9,200	375	7,700	350	6,900	350	800	150	200	75	900	150	350	125
Sociology, demography, and population studies	19,400	325	15,650	375	13,450	375	2,150	250	400	125	3,200	250	200	75
Male	8,750	325	6,900	275	6,050	300	800	150	150	75	1,700	225	D	D
Female	10,650	325	8,750	275	7,400	275	1,350	175	250	100	1,500	200	150	75
Other social sciences	45,300	525	36,300	575	30,700	525	5,600	300	1,150	200	6,900	350	950	150
Male	21,350	475	16,750	500	14,300	400	2,450	250	600	150	3,750	275	300	100
Female	23,950	450	19,550	400	16,400	400	3,100	225	600	150	3,200	250	650	125
Engineering	206,100	1,150	183,100	1,325	172,500	1,275	10,600	600	3,800	375	16,550	700	2,650	275
Male	169,600	1,200	149,800	1,425	141,400	1,375	8,400	575	3,100	350	15,200	675	1,550	250
Female	36,500	700	33,300	675	31,100	675	2,200	200	700	125	1,350	175	1,100	150

TABLE 2

U.S. residing doctoral scientists and engineers, by field of doctorate, sex, and employment status: 2021

(Number and SE)

Field of study and sex	Total		Employed						Unemployed[a]		Retired		Not employed or not seeking work[b]	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Aerospace, aeronautical, and astronautical engineering	7,850	250	7,150	250	6,900	250	250	75	100	75	550	100	50	25
Male	7,100	275	6,400	275	6,200	275	200	75	100	75	550	100	D	D
Female	800	75	750	75	750	75	50	25	D	D	D	D	*	*
Chemical engineering	24,850	425	21,650	500	20,400	475	1,250	250	550	125	2,350	300	300	100
Male	19,350	400	16,850	475	16,000	475	900	250	300	100	2,100	300	100	75
Female	5,500	325	4,800	325	4,400	325	350	125	250	75	250	100	200	75
Civil engineering	21,800	550	19,750	575	18,250	550	1,500	250	300	100	1,450	225	300	125
Male	17,250	450	15,400	500	14,250	475	1,200	250	250	100	1,350	225	200	125
Female	4,600	275	4,300	250	4,000	250	300	75	50	50	S	S	100	50
Electrical and computer engineering	55,900	575	50,400	650	47,900	675	2,550	300	900	200	4,100	375	500	125
Male	48,900	600	43,750	675	41,650	700	2,150	300	800	200	3,950	350	350	125
Female	7,000	375	6,650	375	6,250	375	400	75	100	50	150	50	100	50
Mechanical engineering	30,550	425	27,500	450	26,400	500	1,100	175	500	150	2,050	250	500	175
Male	26,400	500	23,600	550	22,600	575	950	175	450	150	1,900	250	450	175
Female	4,150	300	3,950	300	3,800	300	150	50	D	D	100	75	50	50
Metallurgical and materials engineering	19,750	375	17,450	400	16,500	400	950	150	400	125	1,600	200	350	100
Male	16,050	400	14,200	400	13,450	425	750	150	300	100	1,400	200	100	75
Female	3,700	250	3,200	225	3,050	225	200	50	100	50	200	75	200	100
Other engineering	45,350	450	39,250	525	36,200	550	3,050	250	1,000	175	4,450	275	650	100
Male	34,600	525	29,550	575	27,300	600	2,250	225	850	175	3,950	275	250	75
Female	10,750	375	9,700	350	8,900	350	750	150	150	50	500	100	400	100
Health	50,050	450	41,650	525	36,000	550	5,650	350	1,000	175	6,500	350	900	150
Male	17,950	450	15,600	450	13,850	425	1,750	200	350	125	1,850	175	150	50
Female	32,100	525	26,100	500	22,150	475	3,900	325	650	150	4,650	325	750	150

* = 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.

[a] Unemployed includes individuals who were not working during the survey reference week but had been seeking work in the prior 4 weeks or who were on layoff from their job.

[b] Not employed or not seeking work includes individuals who were not working during the survey reference week and had not been seeking work in the prior 4 weeks because of family responsibilities, chronic illness, or other reasons.

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. Designation of full-time and part-time employment status is based on principal job only, not on all jobs held in labor force. For example, an individual could work part time in his or her principal job but full time in the labor force. Full time is based on working 35 or more hours per week. 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.