TABLE 13

U.S. residing employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2019

(Number and SE)

Employment sector and field of study	All employed		Male		Female	
	Number	SE	Number	SE	Number	SE
All sectors	857,200	1,975	546,050	1,750	311,200	1,200
Science	640,300	1,900	383,900	1,700	256,400	1,200
Biological, agricultural, and environmental life sciences	220,700	1,100	124,550	1,025	96,200	900
Computer and information sciences	31,100	400	25,500	425	5,600	300
Mathematics and statistics	36,650	450	27,350	450	9,300	325
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	133,750	950	101,300	925	32,500	525
Psychology	115,350	825	45,600	800	69,700	775
Social sciences	102,700	900	59,600	825	43,100	575
Engineering	176,700	1,175	147,250	1,200	29,450	575
Health	40,200	475	14,900	325	25,300	400
4-year educational institution[a]	344,350	2,325	211,850	2,075	132,500	1,450
Science	277,850	1,975	168,250	1,725	109,600	1,225
Biological, agricultural, and environmental life sciences	96,250	1,175	55,650	1,025	40,600	775
Computer and information sciences	10,750	475	8,350	450	2,400	225
Mathematics and statistics	20,200	525	15,050	475	5,150	275
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	47,350	850	35,650	775	11,700	375
Psychology	39,150	775	15,800	575	23,300	650
Social sciences	64,150	975	37,750	800	26,400	625
Engineering	45,250	925	36,750	950	8,550	400
Health	21,250	550	6,850	325	14,350	475
Other educational institution[b]	30,900	900	14,300	675	16,600	575
Science	27,850	850	12,800	625	15,100	550
Biological, agricultural, and environmental life sciences	8,000	500	3,200	350	4,800	325
Computer and information sciences	400	100	250	100	200	50
Mathematics and statistics	1,550	175	1,000	150	550	100
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	6,050	350	3,700	325	2,400	200
Psychology	7,150	400	2,400	250	4,750	300
Social sciences	4,700	375	2,250	275	2,400	225
Engineering	1,900	225	1,250	200	650	100
Health	1,150	150	250	75	900	125
Private, for profit[c]	306,300	2,500	218,700	2,050	87,600	1,225
Science	194,000	2,050	126,450	1,775	67,550	1,075
Biological, agricultural, and environmental life sciences	68,550	1,175	39,500	1,025	29,000	725
Computer and information sciences	16,750	575	14,500	575	2,200	225
Mathematics and statistics	11,350	475	8,650	450	2,700	225
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	56,600	1,025	43,850	925	12,750	475
Psychology	27,450	725	11,800	550	15,650	525
Social sciences	13,350	575	8,100	475	5,250	350
Engineering	102,700	1,175	87,350	1,100	15,350	525
Health	9,600	400	4,900	300	4,700	300
Private, nonprofit	55,900	1,125	31,100	925	24,800	625
Science	44,600	950	23,950	750	20,650	600
Biological, agricultural, and environmental life sciences	17,200	550	9,300	475	7,950	375
Computer and information sciences	1,250	200	950	175	300	75
Mathematics and statistics	1,400	175	1,050	175	350	75
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	7,250	375	5,500	350	1,750	175
Psychology	11,250	500	4,200	375	7,100	375
Social sciences	6,200	300	3,000	250	3,200	200
Engineering	7,850	525	6,250	475	1,650	200

TABLE 13

U.S. residing employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2019

(Number and SE)

Employment sector and field of study	All employed		Male		Female	
	Number	SE	Number	SE	Number	SE
Health	3,450	300	950	125	2,500	275
Federal government	50,150	1,025	31,150	825	19,000	650
Science	39,050	925	22,850	775	16,200	600
Biological, agricultural, and environmental life sciences	16,250	575	9,100	500	7,200	375
Computer and information sciences	800	150	550	125	250	75
Mathematics and statistics	1,250	175	950	150	300	100
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	8,500	450	6,450	400	2,050	150
Psychology	6,650	450	2,650	250	4,000	325
Social sciences	5,550	350	3,150	275	2,400	225
Engineering	9,000	450	7,400	425	1,600	150
Health	2,100	200	900	150	1,150	150
State or local government	18,850	750	10,950	550	7,900	425
Science	14,900	625	8,250	500	6,650	375
Biological, agricultural, and environmental life sciences	4,800	375	2,700	300	2,100	200
Computer and information sciences	250	100	200	100	50	25
Mathematics and statistics	S	S	S	S	D	D
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	2,500	275	1,900	250	600	100
Psychology	4,550	375	1,700	250	2,850	300
Social sciences	2,700	225	1,700	225	1,000	125
Engineering	3,000	275	2,300	275	700	150
Health	950	150	400	100	550	100
Self-employed[d]	40,750	1,100	21,750	950	19,000	575
Science	35,100	1,025	17,500	800	17,650	575
Biological, agricultural, and environmental life sciences	7,550	475	4,250	400	3,300	300
Computer and information sciences	650	125	500	125	150	75
Mathematics and statistics	650	150	500	125	150	75
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	4,100	350	3,250	350	850	150
Psychology	18,200	675	6,650	475	11,550	475
Social sciences	3,950	300	2,300	250	1,650	150
Engineering	4,200	425	3,700	400	500	100
Health	1,450	200	550	125	900	150
Other sector[e]	10,050	550	6,250	450	3,800	350
Science	6,950	450	3,900	325	3,050	325
Biological, agricultural, and environmental life sciences	2,100	250	850	150	1,250	200
Computer and information sciences	250	75	200	75	50	25
Mathematics and statistics	200	75	150	75	50	50
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	1,350	200	950	175	400	75
Psychology	950	175	400	125	550	125
Social sciences	2,100	275	1,350	225	750	175
Engineering	2,800	325	2,300	300	500	125
Health	300	75	100	50	250	75

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

SE = standard error.

[a] Includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

[b] Includes 2-year colleges, community colleges, or technical institutes, and other precollege institutions.

[c] Includes those self-employed in an incorporated business.

[d] Self-employed or business owner in a nonincorporated business.

[e] Includes employers not broken out separately.

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. Residence location is based on reported living location on 1 February 2019.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.