

TABLE 49

## U.S. residing employed doctoral scientists and engineers working in science occupations, by field of doctorate and broad occupation: 2019

(Number and SE)

Field of study	All employed		Biological, agricultural, and other life scientist						Computer and information scientist						Mathematical scientist						Physical scientist						Psychologist						Social scientist						
			Total		Post-secondary teachers		Other		Total		Post-secondary teachers		Other		Total		Post-secondary		Other		Total		Post-secondary		Other		Total		Post-secondary		Other								
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE					
All fields	492,750	2,500	156,650	1,525	37,950	850	118,700	1,325	63,000	1,100	9,550	525	53,450	1,075	41,400	750	19,600	575	21,800	650	84,550	1,275	34,850	850	49,650	1,050	77,600	950	20,100	625	57,500	1,000	69,500	1,025	46,350	900	23,150	850	
Science	442,500	2,125	142,900	1,475	36,700	825	106,200	1,350	42,500	800	7,850	450	34,650	775	36,750	675	18,950	575	17,800	575	76,200	1,150	33,450	825	42,750	900	77,250	925	19,950	625	57,300	1,000	66,850	1,000	45,600	900	21,250	800	
Biological, agricultural, and environmental life sciences	142,900	1,225	126,550	1,300	34,200	825	92,350	1,225	4,000	300	150	50	3,800	300	4,500	250	950	125	3,550	250	5,650	300	3,550	250	2,100	200	650	125	450	100	200	75	1,550	175	600	125	950	150	
Agricultural and food sciences	12,600	325	11,200	325	2,650	225	8,550	300	250	75	D	D	250	75	250	75	50	50	200	50	750	100	300	75	450	75	D	D	D	D	D	D	150	50	100	50	50	25	
Biochemistry and biophysics	19,300	550	16,500	575	3,700	300	12,800	550	600	125	D	D	550	125	50	50	D	D	50	50	2,000	225	1,550	200	450	125	D	D	D	D	D	D	D	D	D	D	D	D	D
Cell, cellular biology, and molecular biology	18,250	550	17,500	550	4,750	325	12,800	500	300	100	D	D	300	100	S	S	D	D	S	S	200	75	150	75	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Microbiological sciences and immunology	15,250	450	14,850	425	3,550	250	11,250	425	200	100	D	D	200	100	D	D	D	D	D	D	S	S	S	S	D	D	D	D	D	D	D	D	S	S	D	D	S	S	
Natural resources and conservation	5,900	200	3,800	175	950	100	2,900	150	150	50	D	D	150	50	200	50	D	D	200	50	1,200	125	600	100	600	100	D	D	D	D	D	D	D	550	75	250	75	250	50
Zoology	5,650	250	5,350	250	2,350	175	3,000	225	100	50	D	D	100	50	D	D	D	D	D	D	150	50	100	50	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Other biological sciences	65,950	800	57,300	825	16,250	575	41,050	725	2,400	225	100	50	2,300	225	3,700	200	900	125	2,800	175	1,250	175	750	150	500	125	600	125	400	100	200	75	700	125	150	75	550	125	
Computer and information sciences	24,400	500	100	75	D	D	100	75	23,300	500	6,400	400	16,900	525	700	175	100	50	600	150	D	D	D	D	D	D	D	D	D	D	D	D	200	50	100	50	S	S	
Mathematics and statistics	29,950	525	400	100	D	D	400	100	4,250	325	750	175	3,500	275	24,900	500	16,650	525	8,300	450	150	75	D	D	100	50	D	D	D	D	D	D	200	75	D	D	150	75	
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	92,150	1,100	11,800	500	1,600	175	10,200	450	8,000	500	200	100	7,800	500	2,750	300	500	125	2,250	250	69,000	1,075	28,900	825	40,100	875	D	D	D	D	D	D	550	125	200	75	350	100	
Astronomy and astrophysics	4,400	200	300	75	250	75	D	D	600	100	D	D	550	100	250	75	D	D	200	75	3,250	200	1,750	175	1,500	150	D	D	D	D	D	D	S	S	D	D	D	D	
Chemistry, except biochemistry	44,600	775	8,200	450	550	125	7,650	425	2,300	275	D	D	2,200	275	450	150	D	D	450	150	33,450	750	14,250	600	19,250	675	D	D	D	D	D	D	150	75	D	D	150	75	

TABLE 49

## U.S. residing employed doctoral scientists and engineers working in science occupations, by field of doctorate and broad occupation: 2019

(Number and SE)

Field of study	All employed		Biological, agricultural, and other life scientist						Computer and information scientist						Mathematical scientist						Physical scientist						Psychologist						Social scientist					
			Total		Post-secondary teachers		Other		Total		Post-secondary teachers		Other		Total		Post-secondary		Other		Total		Post-secondary		Other		Total		Post-secondary		Other		Total		Post-secondary		Other	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE		
Geosciences, atmospheric sciences, and ocean sciences	17,700	325	1,750	100	600	75	1,150	100	900	125	D	D	900	125	350	75	50	25	300	75	14,500	325	4,550	225	9,950	300	D	D	D	D	D	D	200	75	150	75	50	25
Physics	25,500	675	1,550	175	150	75	1,450	175	4,250	375	S	S	4,150	375	1,700	225	400	125	1,300	200	17,800	600	8,350	525	9,450	500	D	D	D	D	D	D	150	75	D	D	D	D
Psychology	85,200	925	2,200	225	250	75	1,950	200	1,250	175	100	50	1,150	175	1,200	150	250	75	950	125	S	S	D	D	D	D	75,950	900	19,200	625	56,750	1,000	4,550	300	2,200	225	2,350	200
Social sciences	67,850	900	1,800	200	650	125	1,150	150	1,700	225	200	75	1,500	225	2,700	250	500	125	2,200	225	1,300	175	900	150	400	100	550	100	250	75	300	75	59,850	900	42,450	850	17,400	725
Economics	20,350	575	250	75	100	50	150	75	350	150	D	D	300	150	1,100	175	D	D	1,050	175	S	S	S	S	D	D	D	D	D	D	D	D	18,600	575	10,500	475	8,150	475
Political science and government	15,000	500	100	50	D	D	50	50	300	100	D	D	250	75	200	75	D	D	150	75	D	D	D	D	D	D	D	D	D	D	D	D	14,400	475	11,300	425	3,050	275
Sociology, demography, and population studies	11,200	375	200	100	D	D	150	75	100	75	D	D	100	50	350	150	D	D	150	50	D	D	D	D	D	D	D	D	D	D	D	10,450	375	8,150	325	2,300	225	
Other social sciences	21,300	450	1,250	150	450	100	800	125	950	150	100	75	800	125	1,100	125	300	75	800	125	1,250	150	850	125	400	100	450	100	200	75	250	75	16,350	450	12,450	400	3,900	225
Engineering	38,300	1,100	6,100	425	650	150	5,450	400	20,200	750	1,700	250	18,500	700	4,350	325	600	125	3,750	300	7,000	375	950	175	6,050	400	S	S	D	D	S	S	550	150	200	100	400	100
Aerospace, aeronautical, and astronautical engineering	850	125	D	D	D	D	D	D	400	100	D	D	400	100	150	75	D	D	150	75	250	75	D	D	200	75	D	D	D	D	D	D	D	D	D	D	D	D
Chemical engineering	4,000	350	1,550	225	D	D	1,500	225	950	200	D	D	950	200	150	75	D	D	150	75	1,200	175	S	S	1,100	150	D	D	D	D	D	D	D	D	D	D	D	D
Civil engineering	2,250	275	150	75	D	D	100	50	700	150	D	D	650	150	450	125	D	D	400	125	750	125	250	75	550	100	D	D	D	D	D	D	200	100	S	S	S	S
Electrical and computer engineering	13,500	575	350	125	D	D	300	100	11,750	550	1,300	200	10,450	525	600	125	50	50	500	125	750	150	100	50	600	150	D	D	D	D	D	D	S	S	D	D	D	D
Mechanical engineering	4,050	400	350	150	S	S	S	S	2,500	325	S	S	2,350	300	650	175	D	D	600	150	550	175	D	D	450	150	D	D	D	D	D	D	D	D	D	D	D	D
Industrial engineers	2,950	275	150	75	D	D	150	75	500	125	D	D	500	125	S	S	D	D	S	S	2,150	250	200	100	2,000	250	D	D	D	D	D	D	D	D	D	D	D	D
Other engineering	10,700	400	3,500	250	300	75	3,200	250	3,400	250	250	75	3,200	250	2,150	175	450	100	1,750	150	1,300	125	200	50	1,100	125	D	D	D	D	D	D	250	75	D	D	200	75
Health	11,950	350	7,650	325	600	100	7,050	325	300	100	D	D	300	100	300	75	50	50	250	75	1,350	150	500	100	850	100	250	75	100	50	150	75	2,050	200	550	100	1,500	175

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. 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.