

TABLE 29

U.S. residing doctoral scientists and engineers, by occupation and employment status: 2019

(Number and SE)

Occupation	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 occupations	1,008,750	1,475	857,200	1,975	763,350	2,000	93,900	1,525	14,100	650	120,000	1,400	17,450	625
Science occupations	578,050	2,425	492,750	2,500	438,250	2,325	54,500	1,225	7,250	425	67,750	1,125	10,300	450
Biological, agricultural, and other life scientist	183,050	1,625	156,650	1,525	145,900	1,575	10,750	525	2,950	300	19,650	725	3,750	275
Agricultural, food scientist	14,500	525	11,600	450	10,600	400	1,000	175	250	75	2,500	250	150	50
Biochemists, biophysicist	19,650	725	16,350	675	15,300	650	1,100	200	500	125	1,950	275	800	150
Biological scientist	30,700	700	26,750	675	25,200	650	1,550	225	500	100	2,750	275	750	150
Forestry, conservation scientist	2,750	225	2,250	175	2,000	175	250	75	S	S	400	125	S	S
Medical scientist	48,300	1,100	42,350	1,025	39,950	1,050	2,400	325	950	200	4,100	300	850	175
Postsecondary teachers, agricultural, other natural sciences	7,150	375	5,550	350	5,350	350	250	75	S	S	1,400	200	100	50
Postsecondary teachers, biological sciences	37,800	800	32,400	775	29,550	775	2,850	250	200	75	4,750	375	400	100
Other biological, agricultural, life scientist	22,250	725	19,350	700	18,000	675	1,350	200	450	125	1,850	225	600	125
Computer and information scientist	71,350	1,075	63,000	1,100	59,750	1,075	3,250	350	750	125	6,600	375	1,000	175
Computer and information scientist	60,650	1,075	53,450	1,075	51,000	1,075	2,450	300	700	125	5,550	375	950	175
Postsecondary teachers, computer science	10,700	525	9,550	525	8,800	500	750	150	50	25	1,050	150	100	50
Mathematical scientist	47,850	825	41,400	750	38,150	750	3,300	300	600	125	5,050	325	750	150
Mathematical scientist	24,750	700	21,800	650	20,650	650	1,150	150	350	100	2,200	200	400	125
Postsecondary teachers, mathematics, statistics	23,050	600	19,600	575	17,450	525	2,150	275	250	100	2,900	275	300	75
Physical scientist	101,350	1,325	84,550	1,275	76,850	1,250	7,700	425	1,450	175	13,950	550	1,450	150
Chemists, except biochemist	27,250	800	21,850	725	20,000	675	1,850	225	550	125	4,400	325	500	100
Earth, atmospheric, ocean scientist	14,550	400	11,750	400	10,600	350	1,150	150	300	100	2,300	200	200	75
Physicists, astronomers	14,700	700	12,450	625	11,450	600	950	175	200	100	1,950	225	150	75
Postsecondary teachers, chemistry	19,500	675	16,900	625	15,050	600	1,850	250	150	75	2,150	250	300	75
Postsecondary teachers, physics	12,350	600	10,650	575	9,900	550	750	150	50	25	1,450	225	150	75

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Postsecondary teachers, other physical science	8,400	300	7,300	300	6,650	325	650	125	S	S	950	125	50	25
Other physical scientist	4,550	325	3,650	250	3,200	250	450	125	S	S	750	150	D	D
Psychologist	91,600	975	77,600	950	56,250	1,000	21,350	775	500	125	11,650	575	1,850	200
Psychologist	67,850	1,025	57,500	1,000	38,550	975	18,950	775	400	125	8,400	525	1,550	200
Postsecondary teachers, psychology	23,750	675	20,100	625	17,700	625	2,400	250	100	50	3,250	300	250	75
Social scientist	82,850	1,050	69,500	1,025	61,300	875	8,200	475	1,050	150	10,800	475	1,500	175
Economist	11,300	575	9,600	500	8,300	475	1,250	225	100	50	1,550	200	S	S
Political scientist	2,450	300	1,850	275	1,500	225	350	150	D	D	400	100	150	75
Postsecondary teachers, economics	12,800	550	10,900	500	9,900	500	1,000	150	D	D	1,750	225	150	75
Postsecondary teachers, political science	12,600	475	11,450	450	10,500	425	900	200	D	D	950	175	150	75
Postsecondary teachers, sociology	9,450	375	7,500	350	6,750	325	750	150	150	75	1,650	225	150	75
Postsecondary teachers, other social sciences	19,200	600	16,550	575	14,700	525	1,800	200	200	75	2,250	200	250	75
Sociologist, anthropologist	4,500	325	3,500	275	2,850	250	600	125	S	S	800	150	100	50
Other social scientist	10,500	525	8,250	475	6,800	425	1,450	175	300	75	1,550	175	450	100
Engineering occupations	136,750	1,375	120,650	1,375	114,500	1,350	6,100	425	2,250	250	12,350	575	1,550	225
Aerospace, aeronautical, astronautical engineer	8,250	475	7,150	425	6,850	450	300	100	100	50	1,000	175	S	S
Chemical engineer	10,950	525	9,250	525	8,950	525	300	125	300	125	1,250	225	150	100
Civil, architectural, sanitary engineer	7,750	475	6,900	425	6,250	425	650	150	S	S	700	150	100	50
Electrical engineer	30,700	825	27,500	750	26,450	750	1,050	175	650	150	2,450	300	150	50
Industrial engineers	2,100	275	1,950	250	1,750	225	S	S	D	D	S	S	D	D
Mechanical engineer	15,000	575	13,450	550	12,950	525	500	125	150	75	1,200	175	150	75
Postsecondary teacher, engineering	25,750	800	23,950	750	22,500	725	1,450	250	150	100	1,300	200	300	125
Other engineer	36,200	725	30,500	675	28,850	700	1,650	175	750	150	4,350	325	600	150
S&E-related occupations	108,900	1,600	92,350	1,475	83,900	1,475	8,450	450	1,450	200	13,750	550	1,400	175
Health occupations, except postsecondary teachers and managers	36,200	875	30,800	825	26,050	825	4,750	300	450	100	4,100	275	850	150

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Postsecondary teacher, health and related science	27,600	700	23,600	675	21,650	675	1,950	200	150	75	3,700	325	150	50
S&E managers, including health	28,900	925	24,650	850	24,000	850	650	175	500	125	3,750	325	50	25
S&E precollege teachers	6,850	450	5,200	400	4,600	400	600	125	200	75	1,250	225	200	75
S&E technicians/technologists	8,300	475	7,200	475	6,650	425	550	150	150	75	750	150	150	75
Other S&E-related occupation	1,100	175	900	150	900	150	D	D	D	D	200	100	D	D
Non-S&E occupations	185,050	1,900	151,500	1,650	126,700	1,575	24,800	825	3,150	300	26,150	825	4,250	350
Arts, humanities-related occupation	11,100	450	8,900	425	5,600	325	3,300	300	350	100	1,150	175	650	150
Management-related occupation	42,000	1,275	33,050	1,175	27,800	1,075	5,250	425	850	150	7,350	500	750	150
Non-S&E managers	64,350	1,175	55,650	1,175	51,800	1,125	3,850	350	600	125	7,750	450	350	100
Non-S&E postsecondary teachers	23,750	725	19,700	650	17,100	625	2,600	275	200	75	3,450	275	450	100
Non-S&E precollege/other teachers	6,950	450	4,750	375	2,350	275	2,400	275	250	75	1,300	225	650	150
Sales, marketing occupation	11,350	550	9,400	450	7,450	400	1,950	225	250	100	1,300	225	400	125
Social service-related occupation	8,150	450	6,300	400	4,400	375	1,950	225	100	50	1,400	200	300	100
Other non-S&E occupation	17,400	700	13,750	650	10,250	575	3,500	300	550	175	2,450	275	650	125

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

S&E = science and engineering; 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. If respondent was not employed during survey reference period, occupation when last employed was reported. Excludes 350 individuals who reported never having worked so could not be classified by occupation. 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 2019.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.