

TABLE 40

U.S. residing employed doctoral scientists and engineers, by occupation and age: 2019

(Number and SE)

Occupation	All employed		Under 35		35-39		40-44		45-49		50-54		55-59		60-64		65-75	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All occupations	857,200	1,975	99,050	1,050	128,800	1,375	117,500	1,325	108,400	1,450	100,900	1,375	101,950	1,400	88,300	1,400	112,350	1,625
Science occupations	492,750	2,500	63,200	950	79,050	1,125	71,750	1,150	62,100	1,200	52,050	1,100	53,850	1,175	48,150	1,125	62,600	1,275
Biological, agricultural, and other life scientist	156,650	1,525	22,600	550	26,900	625	25,650	800	19,400	650	15,800	575	16,150	625	15,000	725	15,200	700
Agricultural, food scientist	11,600	450	1,350	150	1,600	175	1,750	200	1,050	125	1,400	175	1,400	175	1,600	175	1,450	200
Biochemists, biophysicist	16,350	675	3,950	275	3,250	350	2,300	275	2,100	250	1,200	200	1,400	225	950	175	1,200	200
Biological scientist	26,750	675	4,400	300	4,850	300	4,650	400	3,350	325	2,200	250	2,550	275	2,700	275	2,000	200
Forestry, conservation scientist	2,250	175	100	50	300	50	450	100	300	75	200	50	250	75	350	100	300	100
Medical scientist	42,350	1,025	6,100	350	7,700	375	7,300	525	4,900	350	4,300	350	4,450	350	3,350	325	4,250	350
Postsecondary teachers, agricultural, other natural sciences	5,550	350	400	100	750	125	700	150	750	125	600	100	750	150	850	125	750	150
Postsecondary teachers, biological sciences	32,400	775	1,750	175	4,500	275	5,600	350	5,050	350	4,050	300	3,600	275	3,700	325	4,100	350
Other biological, agricultural, life scientist	19,350	700	4,450	325	3,950	300	2,900	300	1,900	225	1,800	200	1,750	200	1,500	225	1,100	175
Computer and information scientist	63,000	1,100	10,100	425	12,950	575	9,000	500	7,650	425	6,700	450	7,050	425	5,250	375	4,300	325
Computer and information scientist	53,450	1,075	9,350	400	11,150	525	7,850	450	6,250	375	5,850	425	5,800	425	4,100	350	3,100	275
Postsecondary teachers, computer science	9,550	525	750	125	1,800	250	1,150	175	1,450	225	900	150	1,250	200	1,150	200	1,200	175
Mathematical scientist	41,400	750	7,150	325	7,450	375	6,450	375	5,050	325	3,550	250	4,450	375	3,400	300	4,000	300
Mathematical scientist	21,800	650	4,700	325	4,600	350	3,700	300	2,400	225	1,650	175	2,050	275	1,350	200	1,450	175
Postsecondary teachers, mathematics, statistics	19,600	575	2,450	225	2,850	250	2,750	250	2,650	250	1,900	200	2,400	250	2,050	225	2,550	250
Physical scientist	84,550	1,275	11,350	450	12,650	500	11,400	500	9,850	450	8,900	500	10,250	550	9,550	475	10,500	475
Chemists, except biochemist	21,850	725	4,500	300	3,400	325	2,650	300	2,550	275	1,700	225	2,550	250	2,350	250	2,050	225
Earth, atmospheric, ocean scientist	11,750	400	1,600	150	1,400	150	1,600	175	1,300	150	1,250	150	1,250	150	1,550	150	1,800	200
Physicists, astronomers	12,450	625	2,300	250	2,150	250	1,350	200	1,550	200	950	175	1,550	250	1,100	200	1,450	200
Postsecondary teachers, chemistry	16,900	625	1,400	175	2,750	250	3,000	300	2,150	225	2,050	225	1,900	225	1,700	225	1,950	300
Postsecondary teachers, physics	10,650	575	650	150	1,500	200	1,350	200	1,300	225	1,650	250	1,350	250	1,300	225	1,550	250
Postsecondary teachers, other physical science	7,300	300	600	100	850	125	1,000	125	700	125	850	100	1,050	125	1,100	150	1,050	175
Other physical scientist	3,650	250	250	50	600	125	400	100	300	100	500	125	550	125	400	75	650	125
Psychologist	77,600	950	6,150	375	9,550	500	9,250	450	9,900	625	8,500	450	8,300	475	8,300	425	17,650	700
Psychologist	57,500	1,000	4,550	325	6,050	400	6,300	375	6,650	550	6,000	425	6,200	450	6,450	400	15,250	675
Postsecondary teachers, psychology	20,100	625	1,550	200	3,450	300	2,950	225	3,250	325	2,500	275	2,100	250	1,850	200	2,350	225
Social scientist	69,500	1,025	5,850	350	9,550	425	10,000	475	10,250	500	8,550	500	7,650	450	6,650	425	11,000	550
Economist	9,600	500	1,350	175	1,800	225	1,250	200	800	150	1,050	200	1,000	175	850	150	1,500	275
Political scientist	1,850	275	150	75	300	100	300	100	200	75	200	75	D	D	S	S	300	125
Postsecondary teachers, economics	10,900	500	1,150	175	1,150	150	1,650	200	1,600	225	1,050	150	1,150	200	1,450	225	1,700	225
Postsecondary teachers, political science	11,450	450	800	175	1,450	200	1,300	225	1,700	200	1,950	250	1,450	225	1,100	200	1,700	225
Postsecondary teachers, sociology	7,500	350	450	100	900	125	1,150	175	1,150	175	1,050	150	750	125	700	150	1,350	175

TABLE 40

U.S. residing employed doctoral scientists and engineers, by occupation and age: 2019

(Number and SE)

Occupation	All employed		Under 35		35-39		40-44		45-49		50-54		55-59		60-64		65-75	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Postsecondary teachers, other social sciences	16,550	575	1,000	125	2,300	200	2,600	200	2,850	300	1,650	175	2,050	200	1,450	175	2,650	250
Sociologist, anthropologist	3,500	275	150	50	450	75	500	100	500	100	500	150	250	75	300	100	800	175
Other social scientist	8,250	475	800	125	1,250	150	1,250	175	1,450	200	1,100	175	850	125	600	100	950	175
Engineering occupations	120,650	1,375	19,100	650	22,150	800	16,900	725	13,850	650	13,700	625	14,200	575	10,450	475	10,200	600
Aerospace, aeronautical, astronautical engineer	7,150	425	900	150	1,250	200	800	125	750	150	950	150	1,050	200	650	150	800	175
Chemical engineer	9,250	525	1,800	250	1,750	250	1,700	250	1,050	225	950	175	900	175	600	150	500	150
Civil, architectural, sanitary engineer	6,900	425	1,050	150	1,000	175	750	150	1,200	250	600	150	1,100	200	550	175	650	150
Electrical engineer	27,500	750	5,000	350	5,250	425	4,750	400	3,100	300	3,750	325	2,650	250	1,750	225	1,200	200
Industrial engineers	1,950	250	350	100	350	100	200	100	200	75	150	75	150	75	300	100	S	S
Mechanical engineer	13,450	550	2,300	250	2,500	275	1,650	225	1,700	250	1,350	225	1,750	250	1,100	200	1,100	200
Postsecondary teacher, engineering	23,950	750	2,350	250	3,600	300	3,150	325	2,850	250	2,550	300	3,300	325	2,850	300	3,250	350
Other engineer	30,500	675	5,350	325	6,450	450	3,850	300	3,050	325	3,400	325	3,300	275	2,600	250	2,450	250
S&E-related occupations	92,350	1,475	7,600	375	12,450	600	12,150	575	11,950	500	12,900	550	12,050	550	11,400	575	11,900	550
Health occupations, except postsecondary teachers and managers	30,800	825	2,700	250	4,700	400	3,950	350	3,200	300	4,050	325	3,200	275	4,050	325	4,900	400
Postsecondary teacher, health and related science	23,600	675	1,500	175	2,500	225	3,050	300	3,200	300	3,000	275	3,200	275	3,200	300	3,950	325
S&E managers, including health	24,650	850	1,750	175	3,450	300	3,350	225	3,750	325	3,650	325	3,800	325	2,800	350	2,100	250
S&E precollege teachers	5,200	400	400	100	600	125	450	100	850	150	1,000	175	950	175	550	150	350	100
S&E technicians/ technologists	7,200	475	1,200	175	1,050	150	1,100	200	900	200	1,000	175	800	175	700	150	400	125
Other S&E-related occupation	900	150	S	S	150	50	200	100	50	50	200	75	50	25	100	50	150	75
Non-S&E occupations	151,500	1,650	9,100	475	15,150	500	16,700	600	20,450	675	22,250	675	21,900	750	18,300	725	27,700	875
Arts, humanities-related occupation	8,900	425	950	150	1,350	175	1,050	150	950	150	950	150	700	125	950	175	2,000	250
Management-related occupation	33,050	1,175	2,900	250	3,950	325	4,400	300	4,350	325	4,750	400	3,950	400	3,150	325	5,700	450
Non-S&E managers	55,650	1,175	1,800	225	4,150	325	5,450	375	7,700	400	9,200	500	10,050	550	7,850	450	9,450	525
Non-S&E postsecondary teachers	19,700	650	950	125	2,050	200	2,050	175	3,100	325	3,100	275	2,200	250	2,500	225	3,750	350
Non-S&E precollege/ other teachers	4,750	375	250	75	350	100	350	100	550	125	550	125	650	150	700	150	1,350	250
Sales, marketing occupation	9,400	450	1,000	150	1,300	200	1,250	175	1,200	200	1,350	200	1,300	225	750	125	1,250	200
Social service-related occupation	6,300	400	250	75	500	100	450	100	650	125	850	200	1,000	175	1,000	175	1,700	250
Other non-S&E occupation	13,750	650	1,000	175	1,550	200	1,700	225	2,000	250	1,500	200	2,050	275	1,500	200	2,500	250

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.

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.