

TABLE 29

U.S. residing doctoral scientists and engineers, by occupation and employment status: 2023

(Number and SE)

Occupation	Total		Employed						Unemployed ^a		Retired		Not employed and 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	1,058,700	1,900	908,700	2,300	803,700	2,550	104,950	1,600	11,050	525	122,450	1,250	16,450	700
Science occupations	566,250	2,850	489,300	2,625	443,700	2,625	45,600	950	6,000	375	61,800	1,300	9,150	525
Biological, agricultural, and other life scientists	196,350	1,675	168,150	1,575	154,650	1,450	13,500	575	2,350	250	21,500	750	4,300	425
Agricultural, food scientists	13,700	525	11,250	475	9,900	450	1,350	175	150	50	2,150	225	150	50
Biochemists, biophysicists	19,900	650	17,100	575	15,850	600	1,250	200	400	150	1,750	250	650	150
Biological scientists	34,100	700	30,000	700	27,600	675	2,350	250	250	75	2,850	275	1,050	200
Forestry, conservation scientists	3,450	250	2,900	225	2,600	225	250	75	D	D	450	125	50	50
Medical scientists	52,800	1,025	46,600	975	42,700	900	3,900	350	750	150	4,450	400	950	200
Postsecondary teachers, agricultural, other natural sciences	7,000	375	5,100	325	4,900	300	250	75	50	25	1,800	200	50	25
Postsecondary teachers, biological sciences	39,800	950	33,000	875	30,850	850	2,150	250	200	75	5,950	425	650	125
Other biological, agricultural, life scientists	25,650	775	22,250	750	20,250	700	2,000	250	550	125	2,100	275	800	200
Computer and information scientists	86,500	1,350	76,900	1,250	71,550	1,200	5,350	425	1,150	200	7,450	475	950	200
Computer and information scientists	74,150	1,375	66,200	1,300	61,950	1,250	4,250	375	1,150	200	6,050	450	700	150
Postsecondary teachers, computer science	12,350	550	10,700	525	9,600	475	1,100	200	D	D	1,350	200	300	125
Mathematical scientists	54,250	1,050	48,650	1,000	44,650	1,000	4,000	325	700	175	4,200	300	700	150
Mathematical scientists	33,000	850	30,100	800	28,100	775	1,950	225	450	150	2,000	225	450	125
Postsecondary teachers, mathematics, statistics	21,250	700	18,550	675	16,550	675	2,000	250	250	75	2,200	225	250	75
Physical scientists	104,900	1,375	88,350	1,325	80,500	1,150	7,850	500	900	175	14,150	650	1,450	175
Chemists, except biochemists	25,900	800	21,850	775	20,350	725	1,500	200	200	75	3,500	300	350	100
Earth, atmospheric, ocean scientists	16,700	600	13,550	550	12,000	525	1,550	150	150	75	2,750	250	250	75
Physicists, astronomers	16,750	725	14,650	650	13,500	650	1,150	200	150	75	1,700	225	250	75
Postsecondary teachers, chemistry	18,900	775	16,250	700	14,600	650	1,600	250	150	75	2,250	250	300	75
Postsecondary teachers, physics	11,450	600	9,350	525	8,200	500	1,150	225	100	50	1,850	300	100	50
Postsecondary teachers, other physical science	8,200	325	6,750	275	6,300	275	450	75	S	S	1,250	150	100	50
Other physical scientists	7,050	425	5,950	400	5,500	375	450	100	100	75	900	200	100	50
Psychologists	42,400	925	36,450	850	30,200	825	6,250	450	250	75	5,100	350	600	150
Psychologists	19,750	750	17,550	725	13,550	625	4,000	400	50	50	1,750	250	400	125
Postsecondary teachers, psychology	22,650	750	18,900	675	16,650	625	2,250	250	200	75	3,350	275	250	75
Social scientists	81,800	1,200	70,750	1,175	62,100	1,200	8,650	500	600	100	9,350	500	1,050	200
Economists	10,750	500	9,700	475	8,300	425	1,350	225	D	D	950	200	S	S
Political scientists	2,700	250	2,100	225	1,800	200	300	100	D	D	500	150	100	50
Postsecondary teachers, economics	12,050	500	10,200	475	9,050	475	1,150	200	D	D	1,650	200	D	D
Postsecondary teachers, political science	10,800	525	9,700	500	8,850	500	850	175	100	50	950	175	D	D
Postsecondary teachers, sociology	8,850	400	7,450	375	6,450	400	1,000	175	D	D	1,300	200	100	50

TABLE 29

U.S. residing doctoral scientists and engineers, by occupation and employment status: 2023

(Number and SE)

Occupation	Total		Employed						Unemployed ^a		Retired		Not employed and not seeking work ^b	
			Total		Full time		Part time							
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Postsecondary teachers, other social sciences	19,100	625	16,450	600	14,950	575	1,500	175	100	50	2,350	225	150	75
Sociologists, anthropologists	4,900	275	3,950	275	3,100	225	900	125	50	50	650	125	150	75
Other social scientists	12,750	525	11,200	500	9,650	475	1,550	150	200	75	1,050	150	250	75
Engineering occupations	142,000	1,700	127,550	1,600	118,950	1,500	8,600	575	1,350	250	11,700	550	1,400	225
Aerospace, aeronautical, astronautical engineers	8,550	450	7,500	425	6,900	425	550	150	D	D	1,000	175	50	25
Chemical engineers	9,200	550	8,050	500	7,600	475	400	150	D	D	1,000	225	D	D
Civil, architectural, sanitary engineers	8,300	500	7,800	500	7,200	500	600	150	D	D	350	125	100	50
Electrical engineers	32,700	1,075	29,900	1,000	27,650	925	2,250	350	300	150	2,300	275	200	100
Industrial engineers	1,450	225	1,300	225	1,200	225	S	S	D	D	150	50	D	D
Mechanical engineers	15,150	725	13,050	725	12,250	700	750	175	300	125	1,650	275	150	50
Postsecondary teachers, engineering	27,550	875	24,750	850	23,350	800	1,400	200	300	150	2,200	275	300	125
Other engineers	39,100	1,150	35,300	1,075	32,750	1,025	2,550	300	250	75	3,000	275	550	150
S&E-related occupations	161,700	1,950	135,450	1,825	110,600	1,800	24,850	775	1,450	225	22,600	775	2,200	275
Health occupations, except postsecondary teachers and managers	85,900	1,425	72,400	1,300	51,650	1,175	20,750	750	600	150	11,600	500	1,350	250
Postsecondary teachers, health and related science	24,400	750	19,900	725	17,850	625	2,050	250	250	125	3,950	300	350	125
S&E managers, including health	38,550	1,100	33,200	1,050	32,100	1,050	1,050	200	400	100	4,750	400	200	100
S&E precollege teachers	5,900	400	4,500	375	3,950	375	500	100	100	50	1,100	175	250	75
S&E technicians and technologists	5,650	425	4,550	400	4,150	375	350	125	150	75	900	200	100	50
Other S&E-related occupations	1,250	200	950	175	850	175	100	50	D	D	300	125	D	D
Non-S&E occupations	188,750	2,125	156,400	2,025	130,500	1,800	25,900	825	2,250	225	26,400	775	3,700	350
Arts, humanities-related occupations	12,150	525	9,950	475	6,500	375	3,500	325	200	75	1,350	200	600	125
Management-related occupations	40,650	1,150	35,000	1,025	29,800	950	5,200	375	500	125	4,450	375	750	175
Non-S&E managers	65,700	1,325	55,600	1,275	51,750	1,225	3,850	300	550	125	9,200	500	350	125
Non-S&E postsecondary teachers	24,800	800	19,500	725	16,750	625	2,750	300	250	75	4,650	375	350	75
Non-S&E precollege and other teachers	8,050	500	5,450	400	3,300	300	2,150	250	S	S	1,800	225	600	125
Sales, marketing occupations	8,300	450	6,950	450	5,400	425	1,550	225	250	75	850	150	250	100
Social service-related occupations	9,100	475	7,750	475	5,000	425	2,750	300	D	D	1,150	200	150	75
Other non-S&E occupations	20,000	725	16,200	675	12,000	575	4,200	325	200	75	2,950	300	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 and 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 250 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 2023.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.