

TABLE 8

U.S. residing employed doctoral scientists and engineers, by field of doctorate, ethnicity, race, and sex: 2023

(Number and SE)

Field of study	All employed						Hispanic or Latino ^a						Not Hispanic or Latino ^b																													
													American Indian or Alaska Native						Asian						Black or African American						White						Other race ^c					
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female							
	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	908,700	2,300	558,900	1,850	349,800	1,475	47,400	700	25,850	500	21,500	525	1,750	175	850	125	900	125	240,850	1,900	162,600	1,750	78,250	1,050	36,050	500	17,750	475	18,300	500	566,700	2,050	343,600	1,825	223,050	1,500	15,950	525	8,200	425	7,750	350
Science	667,950	2,050	383,950	1,775	284,000	1,400	37,200	575	19,150	425	18,100	425	1,400	150	700	125	700	125	145,950	1,600	88,400	1,400	57,550	1,025	26,950	450	12,750	400	14,200	450	443,550	1,975	256,650	1,750	186,900	1,425	12,850	500	6,300	400	6,550	300
Biological, agricultural, and environmental life sciences	235,050	1,175	126,550	1,275	108,500	1,075	13,400	425	6,550	350	6,850	275	450	125	200	100	200	75	57,550	1,025	30,550	900	27,000	725	8,150	300	3,800	250	4,350	250	150,750	1,300	83,200	1,025	67,550	825	4,750	300	2,250	225	2,500	200
Agricultural and food sciences	17,050	400	11,300	350	5,750	250	1,250	150	600	75	650	100	50	50	D	D	D	D	4,150	300	2,600	250	1,550	175	850	100	600	100	250	50	10,550	300	7,350	300	3,200	175	250	75	150	50	100	25
Biochemistry and biophysics	29,700	475	17,650	475	12,050	475	1,300	175	700	125	650	125	D	D	D	D	D	D	9,000	525	4,550	400	4,450	425	750	100	450	100	350	75	18,150	550	11,650	500	6,500	300	500	100	300	100	150	50
Cell, cellular biology, and molecular biology	32,400	525	16,700	525	15,750	475	1,500	200	650	150	800	125	D	D	D	D	D	D	8,750	475	4,400	400	4,350	350	750	125	250	75	500	100	20,400	575	10,900	500	9,550	375	950	175	450	125	500	100
Microbiological sciences and immunology	25,400	425	12,700	475	12,700	375	1,750	150	800	125	950	75	D	D	D	D	D	D	5,750	350	3,350	325	2,400	225	950	125	400	125	550	75	16,300	400	7,850	350	8,450	325	650	100	300	100	350	75
Natural resources and conservation	9,150	275	5,500	200	3,600	175	550	50	250	50	250	50	50	25	*	*	*	*	1,450	150	900	125	550	75	450	75	300	50	150	50	6,500	225	3,950	175	2,500	150	150	50	50	25	100	50
Zoology	6,400	225	4,100	225	2,300	150	400	75	250	50	150	50	D	D	D	D	D	D	650	125	350	100	300	100	150	50	100	50	50	25	5,150	225	3,400	225	1,750	125	100	50	50	25	50	25
Other biological sciences	114,900	750	58,600	825	56,300	750	6,650	300	3,250	225	3,400	175	250	100	D	D	150	75	27,850	775	14,400	675	13,400	525	4,250	250	1,750	175	2,500	225	73,700	875	38,150	750	35,550	575	2,200	175	950	150	1,250	125
Computer and information sciences	36,350	550	29,250	550	7,150	375	1,200	125	1,050	100	200	50	S	S	D	D	D	D	16,200	550	12,900	500	3,350	325	1,000	125	650	100	350	75	17,350	525	14,200	475	3,150	225	550	125	450	125	100	50
Mathematics and statistics	38,500	600	28,750	575	9,700	400	1,750	150	1,350	150	400	75	D	D	D	D	D	D	12,350	525	8,750	500	3,550	325	1,000	100	750	100	250	75	22,850	600	17,500	525	5,350	275	500	75	350	75	150	50
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	141,800	1,125	103,750	1,100	38,050	750	5,650	275	3,600	250	2,050	175	100	50	50	25	50	25	37,150	875	26,400	775	10,750	525	3,650	250	2,550	225	1,100	150	92,950	1,050	69,750	1,000	23,200	550	2,300	175	1,400	150	900	100
Astronomy and astrophysics	6,450	175	4,800	175	1,650	100	300	50	200	50	50	25	D	D	D	D	D	D	1,000	125	650	125	350	75	50	25	*	*	D	D	5,000	200	3,850	175	1,200	100	100	25	100	25	50	25
Chemistry, except biochemistry	69,150	850	47,450	800	21,700	600	2,650	200	1,400	125	1,250	150	50	25	S	S	S	S	18,950	700	12,600	600	6,400	400	2,400	200	1,600	175	850	125	44,000	800	31,250	675	12,750	450	1,050	125	600	100	500	100
Geosciences, atmospheric sciences, and ocean sciences	23,150	350	15,200	375	8,000	225	1,050	100	600	75	450	50	50	25	50	25	D	D	3,850	200	2,550	175	1,300	125	400	75	300	75	100	25	17,400	350	11,450	350	5,900	200	450	75	250	50	200	50
Physics	43,050	775	36,350	750	6,700	375	1,700	175	1,400	175	300	75	D	D	D	D	D	D	13,350	575	10,600	550	2,700	300	800	175	650	125	S	S	26,550	675	23,200	675	3,350	200	650	100	500	100	150	50
Psychology	112,100	900	38,400	750	73,700	950	7,500	325	2,400	225	5,050	250	400	100	150	75	300	100	7,750	450	2,200	275	5,550	400	6,550	325	1,600	200	4,900	300	87,250	875	31,150	700	56,100	875	2,650	225	900	175	1,800	175
Social sciences	104,100	875	57,200	875	46,900	675	7,650	325	4,100	225	3,550	225	350	75	200	75	150	50	14,950	550	7,650	425	7,350	450	6,600	300	3,350	275	3,200	200	72,400	875	40,900	800	31,500	575	2,150	225	1,000	175	1,100	150
Economics	27,950	550	19,400	575	8,550	375	1,950	175	1,400	150	550	125	D	D	D	D	D	D	6,350	325	3,750	300	2,600	250	1,150	125	850	125	300	75	18,000	550	13,000	475	5,000	300	450	125	300	125	100	50
Political science and government	21,700	500	13,400	450	8,350	325	1,450	200	800	150	650	150	50	50	50	50	D	D	1,950	250	950	175	1,000	200	1,550	175	950	150	600	100	16,200	525	10,350	425	5,850	300	500	100	250	75	250	75
Sociology, demography, and population studies	15,950	375	6,800	325	9,150	325	1,300	150	600	100	750	125	D	D	D	D	D	D	1,900	250	800	175	1,100	200	1,550	175	650	150	950	125	10,750	350	4,700	300	6,100	275	350	100	S	S	200	75
Other social sciences	38,500	525	17,650	425	20,900	375	2,950	200	1,300	125	1,650	125	200	50	100	50	150	50	4,750	300	2,150	225	2,600	250	2,300	150	950	100	1,350	125	27,450	500	12,850	375	14,600	400	850	125	350	75	550	100
Engineering	196,750	1,300	159,650	1,375	37,100	725	8,000	325	6,000	250	2,000	200	150	50	150	50	D	D	85,750	1,175	70,050	1,200	15,700	525	5,050	250	3,700	225	1,350	150	95,550	1,200	78,100	1,125	17,450	475	2,250	250	1,700	225	600	100
Aerospace, aeronautical, and astronautical engineering	8,150	200	7,150	200	1,000	100	400	75	350	75	50	25	D	D	D	D	D	D	2,650	225	2,350	200	300	100	150	50	150	50	50	25	4,800	225	4,250	200	550	75	100	25	50	25	*	*
Chemical engineering	23,700	500	18,250	525	5,450	300	1,050	150	750	125	300	75	D	D	D	D	D	D	10,400	600	7,900	550	2,500	250	500	100	350	100	150	50	11,450	475	9,050	425	2,400	200	250	75	200	75	D	D
Civil engineering	21,500	475	16,550	525	4,950	275	1,050	125	650	100	350	75	D	D	D	D	D	D	8,350	400	6,500	400	1,850	200	750	125	600	125	150	50	11,200	475	8,650	475	2,500	175	150	50	100	50	S	S
Electrical and computer engineering	54,000	675	47,000	675	7,000	350	1,600	125	1,350	125	250	50	D	D	D	D	D	D	28,100	650	24,400	625	3,700	250	1,250	150	950	125	250	100	22,600	625	19,850	600	2,750	200	500	150	400	150	100	50
Mechanical engineering	28,800	625	24,950	625																																						

* = suppressed when population estimate < 25. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

^a Hispanic or Latino may be of any race.

^b American Indian or Alaska Native, Asian, Black or African American, and White are single race.

^c Other race includes individuals who reported being Native Hawaiian or Other Pacific Islander, single race, and those who reported being more than one race.

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 2023.

Source(s):

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