TABLE 8

U.S. residing employed doctoral scientists and engineers, by field of doctorate, ethnicity, race, and sex: 2021

(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					
	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	Number	SE
All fields	872,100	2,425	543,550	2,350	328,500	1,250	40,100	475	22,600	425	17,500	325	1,400	125	650	100	700	100	219,800	1,600	148,600	1,550	71,200	1,125	31,800	475	15,700	375	16,100	400	562,950	2,075	347,250	1,925	215,700	1,325
Science	647,300	2,000	378,200	2,000	269,100	1,300	31,500	475	16,650	400	14,850	300	1,050	100	450	100	600	100	133,500	1,475	80,200	1,200	53,250	1,050	23,950	450	11,400	325	12,550	400	444,750	2,100	263,000	1,750	181,750	1,275
Biological, agricultural, and environmental life sciences	226,850	1,275	125,000	1,225	101,850	900	11,300	325	5,850	275	5,400	200	250	50	150	50	100	50	53,200	1,025	28,000	800	25,150	775	7,300	300	3,400	200	3,900	250	150,150	1,350	85,250	1,150	64,900	800
Agricultural and food sciences	16,600	350	11,250	350	5,350	225	1,050	100	600	100	450	50	50	25	D	D	D	D	4,000	225	2,250	175	1,750	175	800	100	600	75	200	50	10,500	350	7,600	325	2,900	125
Biochemistry and biophysics	29,550	600	18,050	550	11,450	425	1,200	150	650	75	550	125	D	D	D	D	D	D	8,300	400	4,550	375	3,750	300	650	75	350	75	300	50	18,750	550	12,100	475	6,650	350
Cell, cellular biology, and molecular biology	32,300	450	16,300	475	16,000	450	1,350	150	600	125	750	100	D	D	D	D	D	D	8,350	450	3,950	300	4,400	325	850	150	300	75	550	150	20,950	525	11,050	450	9,900	400
Microbiological sciences and immunology	24,750	425	12,350	425	12,450	375	1,600	150	750	100	850	100	D	D	D	D	D	D	5,250	350	2,900	325	2,400	225	850	100	400	100	500	75	16,500	450	8,000	375	8,450	375
Natural resources and conservation	9,000	225	5,800	200	3,200	150	450	50	250	50	200	25	50	25	*	*	*	*	1,400	125	750	75	650	100	350	50	250	50	100	25	6,650	200	4,450	200	2,200	125
Zoology	6,850	250	4,650	250	2,250	125	350	50	250	50	100	25	D	D	D	D	D	D	900	125	550	125	350	75	100	25	100	25	D	D	5,400	250	3,700	225	1,700	125
Other biological sciences	107,800	850	56,600	825	51,150	675	5,350	250	2,800	175	2,550	150	100	50	D	D	100	50	25,050	650	13,100	550	11,950	475	3,700	250	1,450	125	2,250	225	71,400	975	38,350	850	33,050	575
Computer and information sciences	33,600	425	27,350	425	6,250	275	1,050	100	850	100	200	50	D	D	D	D	D	D	14,200	400	11,250	400	2,950	200	750	100	500	100	250	50	17,050	500	14,200	475	2,800	200
Mathematics and statistics	36,600	575	28,100	575	8,500	350	1,500	125	1,150	100	350	75	*	*	D	D	D	D	11,150	500	7,900	450	3,250	275	900	100	700	100	200	50	22,450	575	17,850	525	4,600	200
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	137,050	1,025	101,250	975	35,750	725	4,850	225	3,400	200	1,450	125	100	25	50	25	50	25	34,750	900	24,500	675	10,250	525	2,850	175	1,900	150	950	100	91,950	1,025	69,850	950	22,100	525
Astronomy and astrophysics	6,350	175	4,700	175	1,600	100	250	75	200	75	50	25	D	D	D	D	D	D	950	125	600	125	350	75	50	25	*	*	D	D	5,000	200	3,850	175	1,200	100
Chemistry, except biochemistry	66,350	800	46,050	775	20,300	575	2,400	150	1,550	125	900	100	50	25	S	S	D	D	17,550	625	11,150	500	6,350	400	1,950	150	1,200	125	750	75	43,150	775	31,400	725	11,750	400
Geosciences, atmospheric sciences, and ocean sciences	22,050	325	14,700	325	7,350	225	850	75	500	50	350	50	*	*	*	*	D	D	3,850	275	2,650	225	1,200	150	300	50	200	50	50	50	16,650	375	11,100	325	5,550	200
Physics	42,300	675	35,750	700	6,500	375	1,350	150	1,150	125	200	75	D	D	D	D	D	D	12,450	575	10,050	500	2,350	300	550	100	450	75	100	50	27,150	625	23,500	650	3,600	250
Psychology	113,500	825	41,050	900	72,450	825	6,550	300	1,950	175	4,600	250	350	75	50	25	250	75	6,600	375	1,700	225	4,950	350	6,000	325	1,550	150	4,450	275	91,600	825	35,100	800	56,500	875

Field of study	Not Hispanic or Latino[b]											
	Other race[c]											
	Total		Male		Female							
	Number	SE	Number	SE	Number	SE						
All fields	16,000	575	8,750	500	7,250	375						
Science	12,500	525	6,450	425	6,100	350						
Biological, agricultural, and environmental life sciences	4,700	325	2,300	250	2,350	200						
Agricultural and food sciences	250	100	200	100	50	25						
Biochemistry and biophysics	650	150	400	125	250	75						
Cell, cellular biology, and molecular biology	800	125	400	100	400	75						
Microbiological sciences and immunology	600	125	300	100	300	75						
Natural resources and conservation	150	50	50	25	50	25						
Zoology	100	50	50	25	50	25						
Other biological sciences	2,200	200	900	125	1,300	175						
Computer and information sciences	550	175	500	175	100	25						
Mathematics and statistics	600	150	450	150	150	50						
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	2,550	275	1,550	225	950	150						
Astronomy and astrophysics	100	25	50	25	50	25						
Chemistry, except biochemistry	1,200	225	700	175	550	150						
Geosciences, atmospheric sciences, and ocean sciences	400	75	250	50	150	50						
Physics	800	150	600	150	250	100						
Psychology	2,400	225	700	150	1,700	175						

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(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					
	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	Number	SE
Social sciences	99,700	1,000	55,400	850	44,300	650	6,300	275	3,450	225	2,850	175	350	75	150	75	200	50	13,600	525	6,850	400	6,750	400	6,150	250	3,300	225	2,850	150	71,550	875	40,750	750	30,800	550	1,750	175	900	150	850	100
Economics	27,300	550	19,000	575	8,300	375	1,700	150	1,200	125	450	100	D	D	D	D	D	D	6,500	350	3,750	325	2,700	250	1,100	125	900	125	200	50	17,700	500	12,900	475	4,800	250	300	100	200	100	100	25
Political science and government	20,500	550	12,800	475	7,700	350	1,150	150	600	100	500	125	D	D	D	D	D	D	1,500	200	800	150	750	150	1,700	175	1,050	150	650	100	15,700	475	10,050	400	5,600	325	350	100	200	75	150	50
Sociology, demography, and population studies	15,650	375	6,900	275	8,750	275	1,050	150	550	125	550	75	D	D	D	D	D	D	1,400	175	500	100	900	150	1,350	150	600	125	750	100	11,550	375	5,100	275	6,400	250	300	75	150	50	150	50
Other social sciences	36,300	575	16,750	500	19,550	400	2,400	150	1,050	125	1,350	100	200	50	50	50	150	50	4,200	275	1,800	175	2,400	250	2,000	150	800	75	1,200	125	26,650	550	12,650	475	14,000	350	800	100	350	75	450	75
Engineering	183,100	1,325	149,800	1,425	33,300	675	6,900	250	5,300	250	1,600	125	200	50	150	50	D	D	78,100	1,175	64,350	1,175	13,700	500	4,500	250	3,300	225	1,200	150	90,800	1,100	74,650	1,075	16,150	475	2,600	250	2,000	250	600	100
Aerospace, aeronautical, and astronautical engineering	7,150	250	6,400	275	750	75	350	75	300	75	50	25	D	D	D	D	D	D	2,300	275	2,150	275	150	50	100	50	100	25	50	25	4,250	225	3,750	250	500	75	100	50	100	50	D	D
Chemical engineering	21,650	500	16,850	475	4,800	325	850	100	500	75	350	50	D	D	D	D	D	D	9,350	450	7,400	425	1,900	250	650	125	500	125	150	50	10,550	375	8,200	350	2,300	200	250	75	250	75	D	D
Civil engineering	19,750	575	15,400	500	4,300	250	900	100	650	75	300	50	D	D	D	D	D	D	7,550	450	6,150	425	1,400	150	700	100	550	100	150	50	10,350	500	7,900	425	2,450	200	250	75	200	75	S	S
Electrical and computer engineering	50,400	650	43,750	675	6,650	375	1,300	100	1,200	100	100	25	50	25	50	25	D	D	25,650	600	21,750	600	3,900	325	1,050	125	850	100	200	75	21,700	575	19,350	550	2,350	200	650	150	600	150	S	S
Mechanical engineering	27,500	450	23,600	550	3,950	300	950	125	800	125	150	50	50	25	50	25	D	D	11,700	450	10,150	475	1,600	200	500	75	400	75	50	50	13,850	475	11,800	475	2,050	175	450	125	400	150	100	50
Metallurgical and materials engineering	17,450	400	14,200	400	3,200	225	650	100	450	100	200	50	D	D	D	D	D	D	7,250	350	6,050	350	1,200	150	400	75	250	50	100	50	8,800	375	7,250	350	1,600	150	300	100	200	75	100	50
Other engineering	39,250	525	29,550	575	9,700	350	1,850	150	1,350	125	500	50	50	25	50	25	D	D	14,250	475	10,750	425	3,500	275	1,150	100	650	75	500	75	21,400	400	16,400	400	5,000	250	550	75	350	50	200	50
Health	41,650	525	15,600	450	26,100	500	1,700	125	650	75	1,050	100	150	50	50	25	100	50	8,250	350	4,000	275	4,200	250	3,350	225	1,000	125	2,350	200	27,400	500	9,600	400	17,800	450	900	150	300	75	600	125

* = 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 Native Hawaiian or Other Pacific Islander and persons reporting more than one race who are not of Hispanic or Latino ethnicity.

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 2021.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2021.