

TABLE 27-2

U.S. residing employed doctoral scientists and engineers, by primary work activity, ethnicity, race, and sex: 2019

(Number and SE)

Primary work activity	All employed						Hispanic or Latino ^a						Not Hispanic or Latino ^b																													
	Total		Male		Female		Total		Male		Female		American Indian or Alaska Native			Asian			Black or African American			White			Other race ^c																	
	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								
Doctorate recipients	857,200	1,975	546,050	1,750	311,200	1,200	37,250	550	21,200	450	16,050	400	1,300	125	750	100	550	75	213,350	1,325	146,800	1,250	66,550	950	31,100	400	15,750	375	15,350	375	562,350	1,750	355,000	1,800	207,300	1,175	11,950	400	6,550	325	5,350	225
Any R&D	351,000	1,975	242,850	1,725	108,100	1,125	14,200	400	8,900	350	5,300	225	400	75	250	75	150	50	112,800	1,225	79,400	1,075	33,450	775	8,850	300	5,000	250	3,850	225	210,100	1,650	146,750	1,375	63,350	975	4,600	275	2,600	225	2,000	150
Applied research	168,650	1,775	110,700	1,425	57,950	925	7,250	300	4,250	250	3,000	200	200	50	100	50	100	50	46,400	1,075	31,250	900	15,150	575	5,300	275	2,700	200	2,600	175	107,300	1,425	71,300	1,100	36,000	675	2,200	175	1,050	125	1,150	125
Basic research	92,700	1,700	63,300	1,450	29,400	675	3,800	225	2,350	200	1,400	125	150	50	S	S	50	25	28,550	950	19,050	825	9,500	450	1,800	175	1,100	175	650	100	57,100	1,100	39,950	975	17,100	550	1,400	150	750	125	650	100
Design	24,050	975	19,350	850	4,700	375	900	125	700	125	200	50	50	25	50	25	D	D	9,100	575	6,950	525	2,200	300	400	75	250	75	100	50	13,350	650	11,250	600	2,150	200	200	75	150	50	50	25
Development	65,600	1,400	49,500	1,275	16,050	575	2,250	150	1,600	125	650	100	50	25	*	*	D	D	28,750	950	22,150	850	6,600	400	1,400	125	900	100	500	75	32,350	975	24,250	925	8,100	400	800	150	600	150	200	50
Computer applications	44,450	950	37,650	875	6,800	400	1,100	125	950	125	150	50	D	D	D	D	D	D	21,600	750	17,600	700	4,000	325	500	75	400	75	100	25	20,850	625	18,300	600	2,550	225	400	100	350	100	50	25
Management, sales, or administration ^d	165,400	2,025	104,100	1,625	61,300	1,075	6,900	325	4,150	250	2,750	150	250	50	150	50	100	50	33,650	875	22,250	675	11,350	525	7,200	325	3,200	250	4,000	250	114,850	1,700	72,850	1,425	42,000	925	2,600	225	1,500	200	1,100	125
Professional services	97,050	1,625	47,200	1,300	49,850	925	4,900	250	1,900	175	3,000	225	250	75	100	50	150	50	14,650	725	7,850	525	6,850	475	3,950	300	1,600	175	2,400	250	72,000	1,275	35,200	1,075	36,750	800	1,300	175	600	125	700	100
Teaching	161,000	1,700	93,000	1,575	68,050	1,075	8,200	350	4,400	250	3,800	225	300	75	200	50	100	50	22,500	825	14,400	625	8,100	450	8,850	325	4,800	275	4,000	225	118,850	1,450	68,050	1,300	50,800	825	2,300	175	1,100	150	1,200	150
Other work activities ^e	38,300	975	21,250	800	17,050	550	1,900	150	900	125	1,000	100	50	50	D	D	D	D	8,150	425	5,300	375	2,850	275	1,700	150	700	125	1,000	125	25,800	825	13,900	700	11,900	475	750	125	450	100	300	75

* = 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.

^d Administration includes accounting, finance, contracts, and human resources.

^e Includes production, operations, maintenance, and other activities not broken out separately.

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. Primary and secondary work activities were self-defined by respondent in response to the question: "On which two activities...did you work the most hours during a typical week on this job?" 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.