

TABLE 27-2

**U.S. residing employed doctoral scientists and engineers, by primary work activity, ethnicity, race, and sex: 2023**

(Number and SE)

Primary work activity	All employed						Hispanic or Latino <sup>a</sup>						Not Hispanic or Latino <sup>b</sup>																													
													American Indian or Alaska Native						Asian						Black or African American						White						Other race <sup>c</sup>					
	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								
Doctorate recipients	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
Any R&D	355,450	2,700	236,100	2,450	119,400	1,450	18,250	500	11,100	350	7,150	325	550	100	300	100	250	50	117,800	1,500	81,100	1,425	36,700	775	11,200	425	5,600	275	5,650	350	202,050	2,050	134,800	1,725	67,250	1,150	5,600	300	3,200	275	2,400	200
Basic research	91,150	1,400	61,250	1,450	29,900	850	5,050	225	3,300	225	1,750	150	150	75	S	S	100	50	30,050	925	19,750	850	10,350	600	2,050	200	850	125	1,200	175	52,450	1,075	36,500	1,075	15,950	550	1,350	175	800	150	550	100
Applied research	187,350	2,350	118,900	2,000	68,450	1,100	9,900	425	5,700	300	4,200	250	250	100	150	100	50	54,000	1,425	35,950	1,225	18,000	700	7,200	325	3,700	250	3,550	250	112,700	1,700	71,650	1,375	41,100	875	3,300	250	1,750	225	1,550	175	
Experimental development	76,950	1,400	55,950	1,275	21,000	750	3,350	225	2,100	175	1,250	150	100	50	50	25	50	25	33,750	1,025	25,400	925	8,350	525	1,950	175	1,050	125	900	150	36,900	1,100	26,700	950	10,200	475	950	175	650	150	300	75
Computer applications	53,200	1,225	43,950	1,150	9,300	475	1,550	150	1,300	150	200	50	D	D	D	D	D	D	25,450	950	20,350	950	5,100	400	850	125	700	100	150	50	24,650	800	20,950	775	3,700	300	750	150	650	125	150	50
Design	28,350	1,000	22,200	925	6,150	375	1,400	175	1,050	175	350	75	50	25	50	25	D	D	10,850	725	8,700	675	2,150	225	850	125	650	100	200	75	14,750	600	11,500	575	3,250	250	450	100	300	75	150	50
Management, sales, or administration <sup>d</sup>	185,550	1,975	109,250	1,675	76,250	1,275	9,300	375	4,750	250	4,550	300	400	100	200	50	250	100	42,000	1,200	27,050	1,075	14,950	650	8,650	375	4,050	275	4,600	250	121,700	1,600	71,700	1,375	50,000	1,000	3,450	325	1,550	200	1,900	200
Professional services	90,900	1,650	41,150	1,150	49,750	1,200	5,450	300	2,000	225	3,400	250	250	75	100	50	100	75	14,450	725	7,500	575	6,950	475	4,100	300	1,450	200	2,650	250	64,750	1,375	29,400	975	35,400	975	1,950	225	750	150	1,150	150
Teaching	153,800	1,875	84,850	1,550	69,000	1,125	9,300	375	4,750	275	4,550	275	400	75	150	75	250	75	21,550	850	12,650	750	8,950	525	7,950	350	4,200	225	3,750	250	111,700	1,600	61,750	1,275	49,950	950	2,900	250	1,350	200	1,550	175
Other work activities <sup>e</sup>	41,400	1,025	21,400	775	20,000	625	2,200	200	950	175	1,250	125	100	50	50	50	25	8,750	525	5,300	475	3,450	300	2,400	250	1,150	225	1,250	175	27,100	825	13,550	600	13,550	550	850	150	400	125	450	100	

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

<sup>a</sup> Hispanic or Latino may be of any race.

<sup>b</sup> American Indian or Alaska Native, Asian, Black or African American, and White are single race.

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

<sup>d</sup> Administration includes accounting, finance, contracts, and human resources.

<sup>e</sup> Other work activities include 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 2023.

**Source(s):**

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