

TABLE 1-B

Doctoral scientists and engineers, by demographic and degree characteristics and employment sector changes: 2015–19

(Number and percent)

Demographic and degree characteristics	All scientists and engineers employed in all three surveys		Employment sector changes (number)						Employment sector changes (%)					
			0		1		2		0		1		2	
			Number	SE	Total	SE	Total	SE	Total	SE	Percent	SE	Percent	SE
Total	745,400	1,950	601,500	2,350	102,900	1,575	41,050	1,300	80.69	0.25	13.80	0.25	5.51	0.20
Gender														
Male	494,200	1,650	406,750	2,000	62,000	1,200	25,500	975	82.30	0.30	12.54	0.25	5.16	0.20
Female	251,200	1,350	194,750	1,300	40,900	950	15,550	725	77.53	0.45	16.28	0.40	6.19	0.30
Ethnicity and race														
Hispanic or Latino ^a	38,350	525	30,100	525	5,850	300	2,400	225	78.57	0.90	15.20	0.75	6.24	0.60
Not Hispanic or Latino ^b														
American Indian or Alaska Native	2,150	200	1,850	200	200	75	100	50	86.67	3.10	8.92	2.60	4.42	1.80
Asian	211,250	1,400	172,750	1,700	26,300	925	12,200	650	81.78	0.55	12.46	0.45	5.77	0.30
Black or African American	25,450	425	19,100	400	4,300	250	2,050	200	75.07	1.00	16.82	0.85	8.12	0.70
White	459,300	2,025	370,900	2,150	64,850	1,225	23,500	925	80.76	0.30	14.12	0.30	5.12	0.20
More than one race ^c	9,000	425	6,750	400	1,450	175	800	150	75.31	2.10	15.87	1.75	8.82	1.55
Field of degree														
Science	553,950	1,500	442,450	2,025	80,250	1,350	31,250	1,125	79.87	0.30	14.49	0.25	5.64	0.25
Biological, agricultural, and environmental life sciences	189,050	950	146,550	1,150	32,000	850	10,500	500	77.52	0.50	16.93	0.45	5.55	0.30
Computer and information sciences	26,100	375	22,500	450	2,500	275	1,100	200	86.19	1.15	9.65	1.05	4.16	0.75
Mathematics and statistics	33,650	475	30,000	525	2,800	275	850	175	89.07	0.95	8.36	0.85	2.58	0.50
Physical sciences, geosciences, atmospheric, and ocean sciences	120,550	625	98,200	1,050	15,300	700	7,050	500	81.45	0.70	12.69	0.60	5.86	0.45
Psychology	89,300	750	65,550	875	16,350	650	7,400	500	73.43	0.85	18.30	0.70	8.27	0.55
Social sciences	95,300	825	79,650	925	11,300	525	4,350	375	83.59	0.65	11.85	0.55	4.55	0.40
Engineering	159,650	975	133,300	1,250	18,200	775	8,150	600	83.51	0.60	11.40	0.50	5.09	0.40
Health	31,800	525	25,750	575	4,400	350	1,650	225	80.85	1.25	13.88	1.05	5.26	0.70
Years since degree														
≤ 10 years	150,000	875	109,800	1,150	29,250	750	10,950	550	73.20	0.60	19.49	0.50	7.30	0.40
11–20 years	270,400	1,150	221,650	1,475	34,950	1,125	13,800	725	81.97	0.50	12.92	0.45	5.11	0.30
21–30 years	214,150	1,450	179,000	1,700	24,800	925	10,350	725	83.58	0.55	11.58	0.45	4.84	0.35
> 30 years	110,850	1,150	91,050	1,150	13,900	750	5,900	450	82.14	0.70	12.52	0.65	5.33	0.40
Residence location in 2015														
U.S. residing	643,500	1,950	519,250	2,275	89,400	1,475	34,850	1,150	80.69	0.30	13.89	0.25	5.42	0.20
Non-U.S. residing	101,900	1,225	82,250	1,300	13,500	625	6,200	500	80.70	0.80	13.23	0.60	6.08	0.50
Disability status in 2015														
With disability	58,050	1,200	47,150	1,175	7,450	575	3,450	350	81.22	1.15	12.85	0.95	5.93	0.60
Without disability	687,350	2,250	554,350	2,450	95,400	1,550	37,600	1,250	80.65	0.30	13.88	0.25	5.47	0.20
Citizenship at graduation														
U.S. citizen and permanent resident	513,900	2,075	410,300	2,225	75,150	1,375	28,450	1,000	79.84	0.30	14.62	0.30	5.54	0.20
Temporary visa holder	231,500	1,600	191,150	1,750	27,750	925	12,600	700	82.58	0.50	11.98	0.40	5.44	0.30

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 2015. Number of changes in detailed employment sectors for principal job held since baseline of 2015, as reported during the survey reference week of 1 February 2015, 2017, and 2019. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients longitudinal panel 2015–25 (LSDR 2015–19 data file).