

TABLE 5-3

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health, by broad field and Carnegie classification: 2019

(Number and percent)

2018 Carnegie classification by area of study	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All broad fields	690,117	100.0	408,228	100.0	281,889	100.0	66,247	100.0	30,349	100.0
Doctoral: highest research	454,835	65.9	225,200	55.2	229,635	81.5	55,095	83.2	25,710	84.7
Doctoral: higher research	106,846	15.5	70,992	17.4	35,854	12.7	2,972	4.5	2,424	8.0
Doctoral: moderate research	38,743	5.6	34,335	8.4	4,408	1.6	157	0.2	2	*
Master's: larger programs	63,044	9.1	61,445	15.1	1,599	0.6	83	0.1	48	0.2
Master's: medium programs	4,739	0.7	4,253	1.0	486	0.2	31	*	87	0.3
Master's: small programs and baccalaureate	4,050	0.6	3,176	0.8	874	0.3	60	0.1	27	0.1
Medical schools and centers	15,877	2.3	7,988	2.0	7,889	2.8	6,679	10.1	1,722	5.7
Other 4-year special focus	880	0.1	591	0.1	289	0.1	6	*	17	0.1
Not classified	1,103	0.2	248	0.1	855	0.3	1,164	1.8	312	1.0
Science	453,691	100.0	259,795	100.0	193,896	100.0	38,503	100.0	18,819	100.0
Doctoral: highest research	290,886	64.1	134,065	51.6	156,821	80.9	31,562	82.0	15,754	83.7
Doctoral: higher research	69,361	15.3	44,904	17.3	24,457	12.6	2,134	5.5	1,666	8.9
Doctoral: moderate research	30,453	6.7	27,144	10.4	3,309	1.7	93	0.2	2	*
Master's: larger programs	44,890	9.9	43,829	16.9	1,061	0.5	71	0.2	40	0.2
Master's: medium programs	3,335	0.7	3,159	1.2	176	0.1	25	0.1	17	0.1
Master's: small programs and baccalaureate	2,897	0.6	2,362	0.9	535	0.3	58	0.2	25	0.1
Medical schools and centers	10,567	2.3	4,062	1.6	6,505	3.4	3,478	9.0	1,031	5.5
Other 4-year special focus	323	0.1	125	*	198	0.1	5	*	1	*
Not classified	979	0.2	145	0.1	834	0.4	1,077	2.8	283	1.5
Engineering	164,004	100.0	91,939	100.0	72,065	100.0	8,266	100.0	3,909	100.0
Doctoral: highest research	126,113	76.9	64,154	69.8	61,959	86.0	7,560	91.5	3,169	81.1
Doctoral: higher research	24,764	15.1	15,743	17.1	9,021	12.5	542	6.6	590	15.1
Doctoral: moderate research	2,074	1.3	1,897	2.1	177	0.2	18	0.2	0	0.0
Master's: larger programs	8,976	5.5	8,713	9.5	263	0.4	11	0.1	8	0.2
Master's: medium programs	656	0.4	485	0.5	171	0.2	5	0.1	70	1.8
Master's: small programs and baccalaureate	448	0.3	419	0.5	29	*	2	*	2	0.1
Medical schools and centers	414	0.3	60	0.1	354	0.5	118	1.4	37	0.9
Other 4-year special focus	557	0.3	466	0.5	91	0.1	1	*	16	0.4
Not classified	2	*	2	*	0	0.0	9	0.1	17	0.4
Health	72,422	100.0	56,494	100.0	15,928	100.0	19,478	100.0	7,621	100.0
Doctoral: highest research	37,836	52.2	26,981	47.8	10,855	68.2	15,973	82.0	6,787	89.1
Doctoral: higher research	12,721	17.6	10,345	18.3	2,376	14.9	296	1.5	168	2.2
Doctoral: moderate research	6,216	8.6	5,294	9.4	922	5.8	46	0.2	0	0.0
Master's: larger programs	9,178	12.7	8,903	15.8	275	1.7	1	*	0	0.0
Master's: medium programs	748	1.0	609	1.1	139	0.9	1	*	0	0.0
Master's: small programs and baccalaureate	705	1.0	395	0.7	310	1.9	0	0.0	0	0.0
Medical schools and centers	4,896	6.8	3,866	6.8	1,030	6.5	3,083	15.8	654	8.6
Other 4-year special focus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not classified	122	0.2	101	0.2	21	0.1	78	0.4	12	0.2

* = value < 0.05%.

Note(s):

Institutions are designated by 2018 Carnegie classification code. Percentages may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2019.