

TABLE 5-3

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health, by broad field and Carnegie classification: 2022

(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	798,534	100.0	501,311	100.0	297,223	100.0	62,750	100.0	32,279	100.0
Doctoral: highest research	526,529	65.9	286,072	57.1	240,457	80.9	52,094	83.0	27,068	83.9
Doctoral: higher research	125,490	15.7	87,827	17.5	37,663	12.7	3,174	5.1	3,407	10.6
Doctoral: moderate research	42,007	5.3	35,991	7.2	6,016	2.0	147	0.2	40	0.1
Master's: larger programs	75,401	9.4	73,481	14.7	1,920	0.6	87	0.1	49	0.2
Master's: medium programs	4,594	0.6	4,225	0.8	369	0.1	55	0.1	84	0.3
Master's: small programs and baccalaureate	4,006	0.5	3,447	0.7	559	0.2	51	0.1	30	0.1
Medical schools and centers	18,313	2.3	9,378	1.9	8,935	3.0	6,015	9.6	1,314	4.1
Other 4-year special focus	773	0.1	510	0.1	263	0.1	8	*	16	*
Not classified	1,421	0.2	380	0.1	1,041	0.4	1,119	1.8	271	0.8
Science	538,166	100.0	331,983	100.0	206,183	100.0	36,673	100.0	19,423	100.0
Doctoral: highest research	344,428	64.0	178,194	53.7	166,234	80.6	30,131	82.2	15,958	82.2
Doctoral: higher research	86,195	16.0	60,355	18.2	25,840	12.5	2,264	6.2	2,357	12.1
Doctoral: moderate research	32,819	6.1	28,616	8.6	4,203	2.0	102	0.3	28	0.1
Master's: larger programs	56,198	10.4	54,981	16.6	1,217	0.6	42	0.1	33	0.2
Master's: medium programs	3,297	0.6	3,136	0.9	161	0.1	17	*	8	*
Master's: small programs and baccalaureate	3,084	0.6	2,610	0.8	474	0.2	38	0.1	24	0.1
Medical schools and centers	10,751	2.0	3,880	1.2	6,871	3.3	3,051	8.3	770	4.0
Other 4-year special focus	281	0.1	98	*	183	0.1	4	*	0	0.0
Not classified	1,113	0.2	113	*	1,000	0.5	1,024	2.8	245	1.3
Engineering	176,000	100.0	103,020	100.0	72,980	100.0	8,335	100.0	4,355	100.0
Doctoral: highest research	137,870	78.3	75,041	72.8	62,829	86.1	7,562	90.7	3,397	78.0
Doctoral: higher research	25,028	14.2	16,136	15.7	8,892	12.2	570	6.8	795	18.3
Doctoral: moderate research	2,251	1.3	2,049	2.0	202	0.3	1	*	0	0.0
Master's: larger programs	8,909	5.1	8,585	8.3	324	0.4	25	0.3	15	0.3
Master's: medium programs	616	0.4	408	0.4	208	0.3	38	0.5	76	1.7
Master's: small programs and baccalaureate	406	0.2	342	0.3	64	0.1	2	*	3	0.1
Medical schools and centers	428	0.2	47	*	381	0.5	113	1.4	35	0.8
Other 4-year special focus	492	0.3	412	0.4	80	0.1	4	*	16	0.4
Not classified	0	0.0	0	0.0	0	0.0	20	0.2	18	0.4
Health	84,368	100.0	66,308	100.0	18,060	100.0	17,742	100.0	8,501	100.0
Doctoral: highest research	44,231	52.4	32,837	49.5	11,394	63.1	14,401	81.2	7,713	90.7
Doctoral: higher research	14,267	16.9	11,336	17.1	2,931	16.2	340	1.9	255	3.0
Doctoral: moderate research	6,937	8.2	5,326	8.0	1,611	8.9	44	0.2	12	0.1
Master's: larger programs	10,294	12.2	9,915	15.0	379	2.1	20	0.1	1	*
Master's: medium programs	681	0.8	681	1.0	0	0.0	0	0.0	0	0.0
Master's: small programs and baccalaureate	516	0.6	495	0.7	21	0.1	11	0.1	3	*
Medical schools and centers	7,134	8.5	5,451	8.2	1,683	9.3	2,851	16.1	509	6.0
Other 4-year special focus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not classified	308	0.4	267	0.4	41	0.2	75	0.4	8	0.1

* = value < 0.05%.

Note(s):

Institutions are designated by 2018 Carnegie classification code. Percentages may not add to total because of rounding. For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering fields and codes, see technical table A-17. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2022.