

TABLE 4-7a

Biological and biomedical sciences master's and doctoral student demographics, enrollment status, and funding: 2019

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	508	71.1	483	67.6	289	40.5
Schools	569	70.3	537	66.4	338	41.8
Units	2,638	13.0	1,581	7.8	1,848	9.1
All graduate students	91,993	100.0	38,078	100.0	53,915	100.0
Male	37,866	41.2	13,803	36.2	24,063	44.6
Female	54,127	58.8	24,275	63.8	29,852	55.4
U.S. citizens and permanent residents ^a	73,093	79.5	32,928	86.5	40,165	74.5
Hispanic or Latino	8,450	9.2	3,817	10.0	4,633	8.6
Not Hispanic or Latino						
American Indian or Alaska Native	276	0.3	120	0.3	156	0.3
Asian	8,819	9.6	4,197	11.0	4,622	8.6
Black or African American	5,270	5.7	3,210	8.4	2,060	3.8
Native Hawaiian or Other Pacific Islander	147	0.2	92	0.2	55	0.1
White	43,821	47.6	18,281	48.0	25,540	47.4
More than one race	2,630	2.9	1,193	3.1	1,437	2.7
Unknown ethnicity and race	3,680	4.0	2,018	5.3	1,662	3.1
Temporary visa holders	18,900	20.5	5,150	13.5	13,750	25.5
Part time	15,760	17.1	12,321	32.4	3,439	6.4
Full time	76,233	82.9	25,757	67.6	50,476	93.6
First time	23,071	25.1	13,522	35.5	9,549	17.7
Primary source of support for full-time students ^b						
Federal	18,553	20.2	1,263	3.3	17,290	32.1
DOD	359	0.4	64	0.2	295	0.5
DOE	136	0.1	8	*	128	0.2
HHS	13,736	14.9	469	1.2	13,267	24.6
NIH	12,999	14.1	399	1.0	12,600	23.4
Other HHS	737	0.8	70	0.2	667	1.2
NASA	59	0.1	6	*	53	0.1
NSF	2,441	2.7	210	0.6	2,231	4.1
USDA	633	0.7	197	0.5	436	0.8
Other	1,189	1.3	309	0.8	880	1.6
Nonfederal	38,114	41.4	7,023	18.4	31,091	57.7
Institutional	34,360	37.4	6,480	17.0	27,880	51.7
Domestic	3,258	3.5	423	1.1	2,835	5.3
Foreign	496	0.5	120	0.3	376	0.7
Self-support	19,566	21.3	17,471	45.9	2,095	3.9
Primary mechanism of support for full-time students ^b						
Fellowships	10,271	11.2	512	1.3	9,759	18.1
Research assistantships	23,675	25.7	2,349	6.2	21,326	39.6
Teaching assistantships	10,670	11.6	3,157	8.3	7,513	13.9
Traineeships	6,099	6.6	172	0.5	5,927	11.0
Other types of support	25,518	27.7	19,567	51.4	5,951	11.0
Self-support	19,566	21.3	17,471	45.9	2,095	3.9
Other	5,952	6.5	2,096	5.5	3,856	7.2

* = value < 0.05%.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Ethnicity and race data are available only for U.S. citizens and permanent residents.^b Funding data are available only for full-time students.

Note(s):

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.