

TABLE 4-7a

**Biological and biomedical sciences master's and doctoral student demographics, enrollment status, and funding: 2023**

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	507	73.8	487	70.9	290	42.2
Schools	560	72.7	534	69.4	333	43.2
Units	2,743	12.0	1,682	7.4	1,863	8.2
All graduate students	105,566	100.0	44,703	100.0	60,863	100.0
Male	39,431	37.4	14,555	32.6	24,876	40.9
Female	66,135	62.6	30,148	67.4	35,987	59.1
U.S. citizens and permanent residents <sup>a</sup>	79,320	75.1	35,639	79.7	43,681	71.8
Hispanic or Latino	11,037	10.5	5,086	11.4	5,951	9.8
Not Hispanic or Latino						
American Indian or Alaska Native	284	0.3	125	0.3	159	0.3
Asian	10,603	10.0	4,966	11.1	5,637	9.3
Black or African American	6,510	6.2	3,905	8.7	2,605	4.3
Native Hawaiian or Other Pacific Islander	112	0.1	61	0.1	51	0.1
White	44,088	41.8	18,362	41.1	25,726	42.3
More than one race	3,444	3.3	1,525	3.4	1,919	3.2
Unknown ethnicity and race	3,242	3.1	1,609	3.6	1,633	2.7
Temporary visa holders	26,246	24.9	9,064	20.3	17,182	28.2
Part time	19,413	18.4	15,523	34.7	3,890	6.4
Full time	86,153	81.6	29,180	65.3	56,973	93.6
First time	25,552	24.2	15,106	33.8	10,446	17.2
Primary source of support for full-time students <sup>b</sup>						
Federal	21,445	20.3	1,928	4.3	19,517	32.1
DOD	462	0.4	93	0.2	369	0.6
DOE	211	0.2	26	0.1	185	0.3
HHS	15,459	14.6	543	1.2	14,916	24.5
NIH	14,648	13.9	453	1.0	14,195	23.3
Other HHS	811	0.8	90	0.2	721	1.2
NASA	76	0.1	8	*	68	0.1
NSF	2,377	2.3	236	0.5	2,141	3.5
USDA	878	0.8	243	0.5	635	1.0
Other	1,982	1.9	779	1.7	1,203	2.0
Nonfederal	43,941	41.6	8,571	19.2	35,370	58.1
Institutional	39,510	37.4	7,549	16.9	31,961	52.5
Domestic	4,076	3.9	932	2.1	3,144	5.2
Foreign	355	0.3	90	0.2	265	0.4

TABLE 4-7a

**Biological and biomedical sciences master's and doctoral student demographics, enrollment status, and funding: 2023**

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	20,767	19.7	18,681	41.8	2,086	3.4
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	11,079	10.5	567	1.3	10,512	17.3
Research assistantships	29,416	27.9	2,885	6.5	26,531	43.6
Teaching assistantships	10,499	9.9	2,967	6.6	7,532	12.4
Traineeships	5,981	5.7	163	0.4	5,818	9.6
Other types of support	29,178	27.6	22,598	50.6	6,580	10.8
Self-support	20,767	19.7	18,681	41.8	2,086	3.4
Other	8,411	8.0	3,917	8.8	4,494	7.4

\* = value &lt; 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.

<sup>a</sup> Ethnicity and race data are available only for U.S. citizens and permanent residents.

<sup>b</sup> Funding data are available only for full-time students.

**Note(s):**

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.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2023.