

TABLE 4-7a

**Biological and biomedical sciences master's and doctoral student demographics, enrollment status, and funding: 2022**

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	510	73.9	490	71.0	290	42.0
Schools	566	73.0	539	69.5	337	43.5
Units	2,776	12.3	1,696	7.5	1,890	8.4
All graduate students	102,700	100.0	43,062	100.0	59,638	100.0
Male	39,150	38.1	14,272	33.1	24,878	41.7
Female	63,550	61.9	28,790	66.9	34,760	58.3
U.S. citizens and permanent residents <sup>a</sup>	79,204	77.1	35,447	82.3	43,757	73.4
Hispanic or Latino	10,691	10.4	4,953	11.5	5,738	9.6
Not Hispanic or Latino						
American Indian or Alaska Native	239	0.2	93	0.2	146	0.2
Asian	10,386	10.1	4,963	11.5	5,423	9.1
Black or African American	6,413	6.2	3,807	8.8	2,606	4.4
Native Hawaiian or Other Pacific Islander	115	0.1	61	0.1	54	0.1
White	44,818	43.6	18,595	43.2	26,223	44.0
More than one race	3,271	3.2	1,425	3.3	1,846	3.1
Unknown ethnicity and race	3,271	3.2	1,550	3.6	1,721	2.9
Temporary visa holders	23,496	22.9	7,615	17.7	15,881	26.6
Part time	19,083	18.6	15,075	35.0	4,008	6.7
Full time	83,617	81.4	27,987	65.0	55,630	93.3
First time	24,054	23.4	13,871	32.2	10,183	17.1
Primary source of support for full-time students <sup>b</sup>						
Federal	21,244	20.7	1,896	4.4	19,348	32.4
DOD	442	0.4	81	0.2	361	0.6
DOE	196	0.2	24	0.1	172	0.3
HHS	15,561	15.2	538	1.2	15,023	25.2
NIH	14,556	14.2	481	1.1	14,075	23.6
Other HHS	1,005	1.0	57	0.1	948	1.6
NASA	69	0.1	10	*	59	0.1
NSF	2,408	2.3	228	0.5	2,180	3.7
USDA	800	0.8	231	0.5	569	1.0
Other	1,768	1.7	784	1.8	984	1.6
Nonfederal	41,997	40.9	7,820	18.2	34,177	57.3
Institutional	37,901	36.9	7,268	16.9	30,633	51.4
Domestic	3,736	3.6	485	1.1	3,251	5.5
Foreign	360	0.4	67	0.2	293	0.5
Self-support	20,376	19.8	18,271	42.4	2,105	3.5
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	10,990	10.7	501	1.2	10,489	17.6
Research assistantships	27,861	27.1	2,822	6.6	25,039	42.0
Teaching assistantships	10,276	10.0	2,880	6.7	7,396	12.4
Traineeships	6,065	5.9	121	0.3	5,944	10.0
Other types of support	28,425	27.7	21,663	50.3	6,762	11.3
Self-support	20,376	19.8	18,271	42.4	2,105	3.5
Other	8,049	7.8	3,392	7.9	4,657	7.8

\* = 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, 2022.