

TABLE 4-6

## U.S. citizen and permanent resident research doctorate recipients with graduate education-related debt, by ethnicity, race, and broad field of doctorate: 2023

(Number and percent)

Ethnicity, race, and debt level	All fields	Science and engineering											Non-science and engineering						
		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering
U.S. citizens and permanent residents reporting graduate debt																			
Total (number) <sup>a</sup>	33,593	25,633	717	6,739	764	4,303	750	1,811	893	769	2,988	2,925	2,974	7,960	608	3,065	2,356	547	1,384
Debt > \$30,000 (%)	19.8	16.1	17.2	10.9	9.3	6.8	7.7	38.7	4.4	14.4	5.3	37.7	24.7	31.6	23.8	37.3	25.0	24.9	35.9
Debt > \$70,000 (%)	11.7	9.3	8.2	5.4	4.8	2.7	3.6	23.5	1.8	7.8	2.3	26.2	14.9	19.5	16.8	23.1	14.5	15.7	22.7
Hispanic or Latino																			
Total (number) <sup>a</sup>	3,246	2,460	61	695	44	389	57	153	61	71	280	327	322	786	36	331	239	47	133
Debt > \$30,000 (%)	24.3	20.8	D	13.7	15.9	9.3	19.3	43.1	D	15.5	10.7	45.3	29.8	35.4	44.4	40.8	27.6	19.1	39.1
Debt > \$70,000 (%)	15.5	13.4	D	7.5	D	4.4	10.5	29.4	D	8.5	5.7	33.9	20.8	22.1	D	26.3	D	D	22.6
Not Hispanic or Latino																			
American Indian or Alaska Native																			
Total (number) <sup>a</sup>	94	58	D	11	D	D	D	9	0	D	D	8	15	36	D	21	8	D	D
Debt > \$30,000 (%)	33.0	31.0	D	D	0.0	0.0	0.0	D	-	0.0	D	D	46.7	36.1	0.0	D	D	0.0	0.0
Debt > \$70,000 (%)	16.0	D	0.0	0.0	0.0	0.0	0.0	D	-	0.0	D	D	D	D	0.0	D	D	0.0	0.0
Asian																			
Total (number) <sup>a</sup>	3,688	3,130	44	885	180	705	56	186	131	106	335	217	285	558	116	174	124	38	106
Debt > \$30,000 (%)	8.9	7.7	15.9	6.3	4.4	3.3	D	D	D	6.6	2.7	D	11.6	15.6	11.2	17.2	12.9	15.8	20.8
Debt > \$70,000 (%)	4.7	4.0	D	3.2	D	1.1	0.0	9.7	0.0	D	D	D	6.7	8.6	5.2	D	5.6	D	13.2
Black or African American																			
Total (number) <sup>a</sup>	2,580	1,570	D	319	D	204	D	230	21	D	92	277	285	1,010	D	561	141	D	D
Debt > \$30,000 (%)	50.9	44.1	43.3	D	D	17.6	D	65.2	28.6	D	14.1	68.2	54.0	61.5	62.3	63.8	D	D	65.8
Debt > \$70,000 (%)	34.8	29.7	26.7	16.6	D	7.4	D	48.3	D	28.6	5.4	52.7	34.7	42.6	47.5	43.9	D	D	47.6
White																			
Total (number) <sup>a</sup>	22,206	16,999	546	4,427	459	2,775	583	1,143	626	496	2,124	1,911	1,909	5,207	367	1,864	1,727	408	841
Debt > \$30,000 (%)	17.2	14.4	16.5	10.3	7.8	6.3	6.9	34.7	4.2	12.5	4.7	33.9	21.6	26.7	19.3	30.1	23.7	25.7	28.8
Debt > \$70,000 (%)	9.6	7.7	7.9	4.9	3.9	2.3	D	18.9	1.1	6.5	2.0	21.9	D	15.7	13.1	17.1	14.1	16.4	16.6
More than one race																			
Total (number) <sup>a</sup>	1,283	1,051	27	324	21	174	29	59	41	24	111	139	102	232	15	76	71	16	54
Debt > \$30,000 (%)	19.3	14.5	D	8.6	D	9.8	D	42.4	D	D	D	32.4	21.6	41.4	40.0	D	31.0	D	53.7
Debt > \$70,000 (%)	12.1	8.8	D	2.8	D	3.4	0.0	28.8	D	D	D	27.3	13.7	26.7	D	35.5	11.3	D	38.9
Other race or race not reported																			
Total (number) <sup>a</sup>	330	244	3	57	10	D	4	16	11	6	D	31	38	86	8	19	33	8	18
Debt > \$30,000 (%)	19.1	17.6	66.7	12.3	0.0	8.6	0.0	56.3	9.1	16.7	3.0	38.7	18.4	23.3	12.5	47.4	15.2	12.5	22.2
Debt > \$70,000 (%)	11.2	D	0.0	7.0	0.0	0.0	0.0	D	9.1	0.0	0.0	29.0	5.3	D	12.5	31.6	D	0.0	11.1
Ethnicity not reported																			

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**U.S. citizen and permanent resident research doctorate recipients with graduate education-related debt, by ethnicity, race, and broad field of doctorate: 2023**

(Number and percent)

Ethnicity, race, and debt level	All fields	Science and engineering										Non-science and engineering							
		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering
Total (number) <sup>a</sup>	166	121	4	21	8	17	2	15	2	8	11	15	18	45	4	19	13	6	3
Debt > \$30,000 (%)	19.3	19.8	0.0	4.8	12.5	23.5	0.0	60.0	0.0	0.0	0.0	40.0	16.7	17.8	0.0	31.6	7.7	16.7	0.0
Debt > \$70,000 (%)	14.5	16.5	0.0	0.0	12.5	23.5	0.0	53.3	0.0	0.0	0.0	26.7	16.7	8.9	0.0	10.5	7.7	16.7	0.0

- = not calculable; D = suppressed to avoid disclosure of confidential information.

<sup>a</sup>Total includes all doctorate recipients who responded to the graduate school debt question, even if they reported they had no debt.

**Note(s):**

Percentages were calculated based on the number of cases in each category. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.