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)

	Science and engineering													Non-science and engineering						
Ethnicity, race, and debt level	All fields Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health scien	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social science	es Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering		
U.S. citizens and permanent residents reporting graduate debt			-								, ,									
Total (number) ^a	33,593 25,633	717	6,739	764	4,303	75	0	1,811 893	7	69 2,98	38 2,925	2	2,974 7,960	608	3,065	2,356	547	1,38		
Debt > \$30,000 (%)	19.8 16.1	17.2	10.9	9.3	6.8	7.	7	38.7 4.4	1.	4.4 5	.3 37.7		24.7 31.6	5 23.8	37.3	25.0	24.9	35		
Debt > \$70,000 (%)	11.7 9.3	8.2	5.4	4.8	2.7	3.	6	23.5		7.8 2	.3 26.2		14.9 19.5	16.8	23.1	14.5	15.7	22		
Hispanic or Latino																				
Total (number) ^a	3,246 2,460	61	695	44	389	5	7	153 61		71 28	327		322 786	36	331	239	47	13		
Debt > \$30,000 (%)	24.3 20.8	D	13.7	15.9	9.3	19.	3	43.1 D	1	5.5 10	.7 45.3		29.8 35.4	1 44.4	40.8	27.6	19.1	39		
Debt > \$70,000 (%)	15.5 13.4	D	7.5	D	4.4	10.	5	29.4 D		3.5 5	.7 33.9		20.8 22.1	I D	26.3	D	D	22		
Not Hispanic or Latino																				
American Indian or Alaska Native																				
Total (number) ^a	94 58	D	11	D	D		D	9		D	D 8		15 36	5 D	21	8	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		
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		
Asian																				
Total (number) ^a	3,688 3,130	44	885	180	705	5	6	186 131	1	06 33	217		285 558	116	174	124	38	10		
Debt > \$30,000 (%)	8.9 7.7	15.9	6.3	4.4	3.3		D	D D		5.6	.7 D		11.6 15.6	11.2	17.2	12.9	15.8	20		
Debt > \$70,000 (%)	4.7 4.0	D	3.2	D	1.1	0.	0	9.7		D	D D		6.7 8.6	5.2	D	5.6	D	13		
Black or African American																				
Total (number) ^a	2,580 1,570	D	319	D	204		D	230 21		D 9	277		285 1,010	D	561	141	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		
Debt > \$70,000 (%)	34.8 29.7	26.7	16.6	D	7.4		D	48.3	2	3.6	.4 52.7		34.7 42.6	47.5	43.9	D	D	47		
White																				
Total (number) ^a	22,206 16,999	546	4,427	459 7.8	2,775	58	3	1,143 626		96 2,12	1,911	•	1,909 5,207	367	1,864	1,727	408	84		
Debt > \$30,000 (%)	17.2 14.4	16.5	10.3	7.8	6.3	6.	9	34.7 4.2	1:	2.5 4	.7 33.9		21.6 26.7		30.1	23.7	25.7	28		
Debt > \$70,000 (%)	9.6 7.7	7.9	4.9	3.9	2.3		D	18.9		5.5	.0 21.9		D 15.7	7 13.1	17.1	14.1	16.4	16		
More than one race																				
Total (number) ^a	1,283 1,051	27	324	21	174	2	9	59 41		24 11	1 139		102 232	2 15	76	71	16	5		
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		
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	7 D	35.5	11.3	D	38		
Other race or race not reported																				
Total (number) ^a	330 244	3	57	10	D		4	16 11		6	D 31		38 86	8	19	33	8			
Debt > \$30,000 (%)	19.1 17.6	66.7	12.3	0.0	8.6	0.	0	56.3 9.1	1	5.7	.0 38.7		18.4 23.3	12.5	47.4	15.2	12.5	22		
Debt > \$70,000 (%)	11.2 D	0.0	7.0	0.0	0.0	0.	0	D 9.1		0.0	.0 29.0		5.3 D	12.5	31.6	D	0.0	11		
Ethnicity not reported																				

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

		Science and engineering													Non-science and engineering						
Ethnicity, race, and debt level	All fields 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 Educatio	n Humanities	Visual and performing arts	Other non-science and engineering				
Total (number) ^a	166 121		4 21	8	17		15	2		8 11	15	18	45	4	19 13	6	3				
Debt > \$30,000 (%)	19.3 19.8	(.0 4.8	12.5	23.5	0.0	60.0	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	12.5	23.5	0.0	53.3	0.0	0.	0.0	26.7	16.7	8.9	0.0	0.5 7.7	16.7	0.0				

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

^a 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.