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: 2022

Ethnicity, race, and debt level						Science and engineering										N	on-science and engineering	
	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	Education	Humanities	Visual and performing arts	Other non-science and engineering
U.S. citizens and permanent residents reporting graduate debt																		
Total (number) ^a	33,355 25,434	714	6,494	731	4,216	70	1,870	901		2,967	7 3,021	3,06	59 7,921	605	2,951	2,461	587	1
Debt > \$30,000 (%)	20.3 16.6	15.4	10.8	7.8	7.2	5.	36.6	8.3	13	5.8	8 38.1	26	.5 32.2	26.6	39.3	24.7	26.2	
Debt > \$70,000 (%)	12.2 9.8	8.7	5.3	4.2	3.0	2.	23.3	4.3	8	3.4	8 26.4	16	.6 19.9	19.0	24.2	14.4	15.2	
Hispanic or Latino																		
Total (number) ^a	3,192 2,415	68	703	41	349	5	152	55	7	78 245	5 341		24 777	45	312	256	57	
Debt > \$30,000 (%)	25.0 21.4	23.5	13.4	D	9.7	13.	36.8	D	21		6 44.0	35		33.3	45.8	25.0	22.8	
Debt > \$70,000 (%)	15.3 12.5	10.3	6.3	D	4.6		21.1	D	15	5.4 4.5	5 30.2	22	.5 23.8	D	30.1	14.8	D	
Not Hispanic or Latino																		
American Indian or Alaska Native																		
Total (number) ^a	83 52	D	7	D	D		D	D		D	D 8	1	17 31	D	18	D	D	
Debt > \$30,000 (%)	37.3 36.5	D	D	0.0	0.0		D	0.0		D 0.0	0 D	52		0.0	D	0.0	D	
Debt > \$70,000 (%)	24.1 25.0	D	D	0.0	0.0		0.0	0.0		D 0.0	0 D		D 22.6	0.0	D	0.0	D	
Asian																		
Total (number) ^a	3,410 2,874	40	808	145	645	4	180	113	Q	97 313	3 214	27	76 536	105	155	118	49	
Debt > \$30,000 (%)	9.4 8.1	12.5	5.4	4.8	5.4		21.7	4.4	6	5.2 2.6	6 D	10	.5 16.4	D	D	16.1	D	
Debt > \$70,000 (%)	4.9 4.1	D	2.6	D	1.7	0.	12.8	D		D	D D	5	.1 9.0	D	D	7.6	D	
Black or African American																		
Total (number) ^a	2,506 1,539	34	310	40	183	1	259	26	3	36 81	1 274	28	967	81	541	132	30	
Debt > \$30,000 (%)	52.0 45.2	44.1	D	35.0	18.6		63.7	26.9	47	7.2 21.0	0 69.0	53	.7 62.9	69.1	64.7	47.7	56.7	
Debt > \$70,000 (%)	38.4 33.7	D	D	22.5	9.8		49.4	D	30	0.6	D 58.0	43	.8 45.8	58.0	45.3	32.6	23.3	
White																		
Total (number) ^a	22,507 17,247	541	4,328	458	2,798	56	1,207	639	48	2,185	5 2,032	2,01	13 5,260	349	1,813	1,831	418	
Debt > \$30,000 (%)	17.7 14.6	12.2	10.1	6.8	6.4	5.	32.6	8.5	11	.7 5.6	6 34.1	23	.2 27.6	21.2	32.4	23.4	27.3	
Debt > \$70,000 (%)	10.0 8.3	7.0	5.0	3.7	2.6	2.	19.4	4.1	7	7.0 2.5	5 22.4	13	.2 15.7	D	18.4	13.2	D	
More than one race																		
Total (number) ^a	1,188 956	17	270	25	164	2	50	48		26 107	7 116	11	11 232	12	78	77	20	
Debt > \$30,000 (%)	19.3 16.3	D	12.2	D	D		46.0	D		D C	D 37.1	27	.9 31.5	D	30.8	27.3	D	
Debt > \$70,000 (%)	10.6 8.7	D	4.8	0.0) D	0.	26.0	D		D D	D 24.1		D 18.5	D	14.1	16.9	0.0	
Other race or race not reported																		
Total (number) ^a	294 220	D	43	D	D		D	D		D	D 23	3	34 74	D	21	D	D	
Debt > \$30,000 (%)	23.5 20.0	20.0	14.0	D	D	0.	D	7.7		D C	D 56.5	26	.5 33.8	33.3	38.1	38.5	14.3	
Debt > \$70,000 (%)	15.0 12.3	0.0	4.7	0.0) D	0.	36.4	0.0	5	5.9	D 43.5	23		22.2	28.6	23.1	14.3	
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: 2022

(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 sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total Busi	ess Educa	ion Humanities	Visual and performing arts	Other non-science and engineering				
Total (number) ^a	175	131	5	25	6	38	:	8	5	6	9	13	13	44	2	13 1	9 4	6				
Debt > \$30,000 (%)	20.0	16.0	40.0	0.0	16.7	18.4	0.0	25.0	0.0	0.0	0.0	38.5	30.8	31.8	50.0	46.2 15.	0.0	66.7				
Debt > \$70,000 (%)	14.9	10.7	40.0	0.0	16.7	5.3	0.0	25.0	0.0	0.0	0.0	38.5	15.4	27.3	50.0	38.5 15.	0.0	50.0				

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

^a 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, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at https://ncses.nsf.gov/pubs/ncses23200).

Source(s):
National Center for Science and Engineering Statistics, Survey of Earned Doctorates.