TABLE 5-2 Research doctorate recipients who earned a bachelor's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2023

			Science and engineering															Non-science and engineering							
Demographic characteristic	All fields	Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	En	ngineering	Geosciences, atmospheric, and ocean sciences	Не	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physi	cal sciences	Psychology	Social sciences	Total	Business	Educati	on Hui	manities	Visual and performing arts	Other non-science and engineering		
Doctorate recipients reporting bachelor's degree	98.3	98.3	97.1	98.2	9	98.5	98.7	98.3	3	96.3	98.8	98.		98.7	98.2	98	.8 98.2	98.	3	98.2	98.2	98.3	98.3		
Bachelor's degree in the same field as doctorate	60.6	64.3	48.4	64.2	3	38.8	78.4	49.8	8	46.4	80.6	14.		77.2	70.9	55	.2 46.0	42.	3	25.7	71.3	69.7	38.0		
Sex																									
Male	63.4	66.0	50.8	62.3	3	39.7	80.1	50.6	6	37.2	80.5	14.		77.6	66.0	58	.9 49.2	41.	7	22.8	71.1	71.6	36.7		
Female	57.6	62.3	46.4	65.7	3	35.7	73.5	49.0	0	50.1	80.7	13.:		76.5	72.4	51	.7 43.8	42.	9	26.7	71.6	68.2	38.8		
Citizenship status																									
U.S. citizen or permanent resident	61.3	66.2	46.0	68.7	4	16.1	80.0	51.	1	43.5	84.6	12.		80.6	73.1	55	.3 45.8	40.	9	25.0	73.6	73.1	35.8		
Temporary visa holder	61.5	63.2	53.8	52.6	3	35.1	78.9	48.9	9	57.7	78.8	15.:		73.3	62.7	56	.6 50.2	44.	5	34.7	67.5	64.9	46.1		
Ethnicity and race (U.S. citizens and permanent residents)																									
Hispanic or Latino	61.7	68.6	39.3	72.6	4	14.4	83.5	50.9	9	31.4	86.9	16.		81.1	78.3	59	.0 40.1	52.	3	17.4	66.0	70.8	35.3		
Not Hispanic or Latino																									
American Indian or Alaska Native	49.5	59.3	0.0	81.8		0.0	D		D	D	-	0.		D	77.8	46	.7 33.3	0.	כ	D	62.5	D	0.0		
Asian	60.0	64.0	48.9	64.1	4	10.7	78.6	46.4	4	D	79.5	15.		D	70.3	50	.5 37.7	35.)	D	D	68.4	27.5		
Black or African American	48.1	59.1	35.5	D	4	12.9	D		D	49.8	81.0			79.3	66.0	44	.6 31.1	27.	9	D	D	D	33.0		
White	63.1	67.0	47.7	68.8	4	18.1	80.0	51.6	6	45.1	86.0	13.		80.7	73.6	57	.4 50.4	43.	9	27.9	76.3	74.6	37.9		
More than one race	64.6	68.0	37.0	D	5	57.1	82.2	41.4	4	35.6	82.9			79.3	75.5	52	.9 49.4	46.	7	25.0	76.4	81.3	38.9		
Other race or race not reported	61.2	65.6	66.7	70.5	5	50.0	80.6	50.0	0	43.8	72.7	0.		74.3	74.2	52	.6 48.9	33.	3	30.0	63.6	87.5	35.0		
Ethnicity not reported	45.9	51.0	40.0	60.7	5	50.0	59.1	100.0	0	37.5	60.0	10.		68.8	57.1	35	.0 33.3	33.	3	13.6	55.0	55.6	0.0		

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

Percentages are based on the total number of doctorate recipients. A bachelor's and doctorate recipients. A bachelor's and doctorate recipients to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list in tables reporting data from 2021 to the present; see the field list 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.