

PhD Survey Results

[NSF 2019 Survey of Earned Doctorates](https://nces.nsf.gov/pubs/nsf21308)

<https://nces.nsf.gov/pubs/nsf21308>

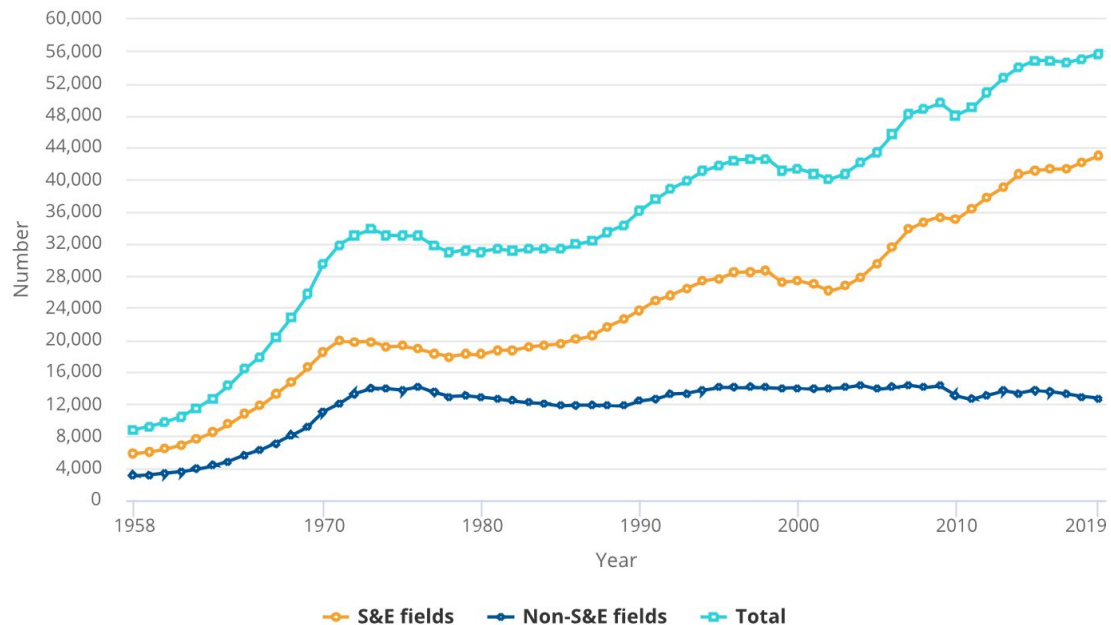
[AMS 2017 Annual Survey Report on New Doctorate Recipients](http://www.ams.org/profession/data/annual-survey/2017Survey-NewDoctorates-Report.pdf)

<http://www.ams.org/profession/data/annual-survey/2017Survey-NewDoctorates-Report.pdf>

Overall PhD Awarding Trends (NSF)

Figure 1

Doctorates awarded by U.S. colleges and universities: 1958–2019



S&E = science and engineering.

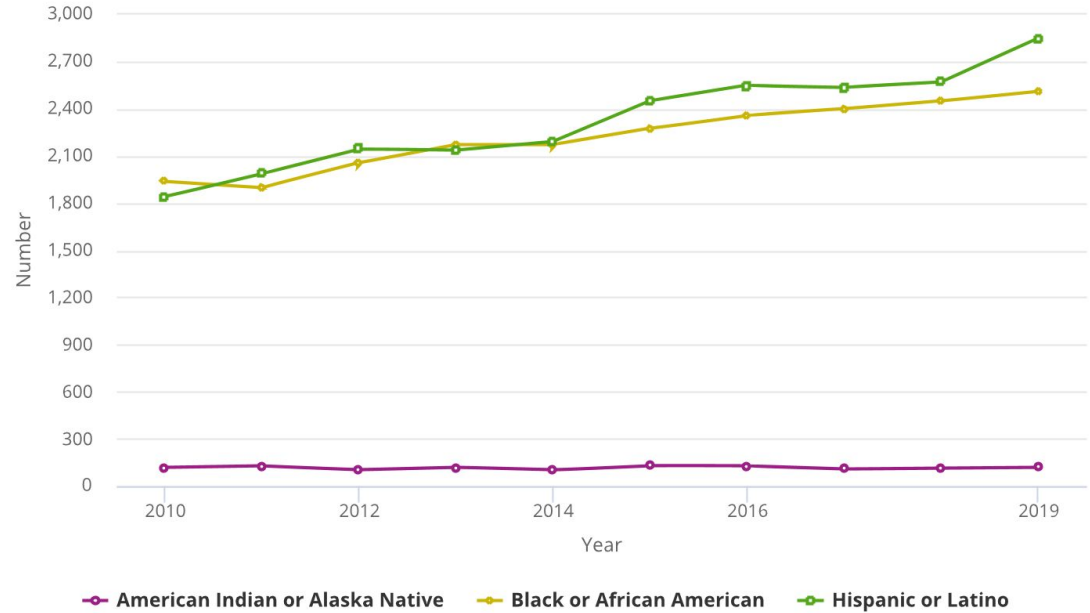
Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2019. Related detailed table 1.

Overall By URP Race/ Ethnicity (NSF)

Figure 6

Doctorates earned by underrepresented minority U.S. citizens and permanent residents: 2010–19



Note(s):

Excludes U.S. citizen and permanent resident respondents who did not report race or ethnicity.

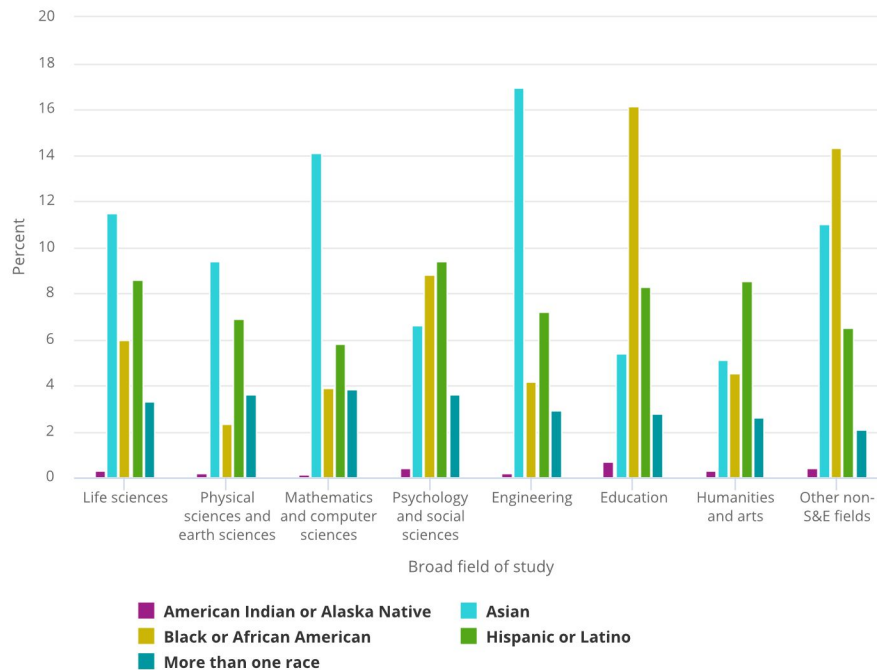
Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2019. Related detailed table 19 and table 22 through table 24.

Overall 2019 By Race/Ethnicity (NSF)

Figure 10

Doctorates awarded to minority U.S. citizens or permanent residents, by race, ethnicity, and broad field of study: 2019



S&E = science and engineering.

Note(s):

Excludes U.S. citizen and permanent resident respondents who did not report race or ethnicity or were Native Hawaiian or Other Pacific Islander.

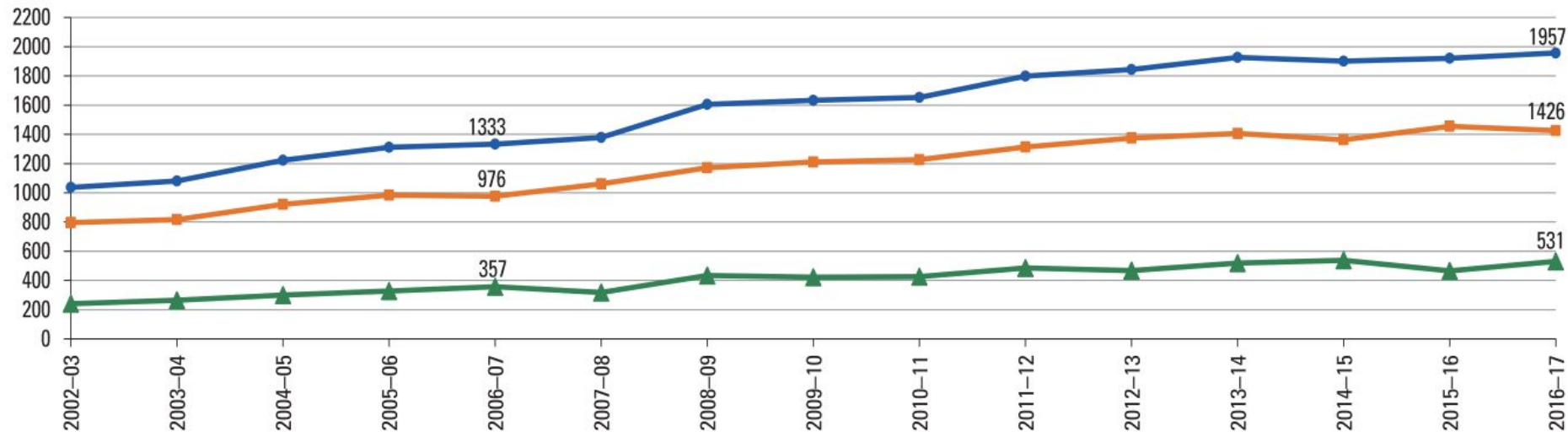
Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2019. Related detailed table 23 and table 24.

| Field of study | All U.S. citizen and permanent resident doctorate recipients (number) | Total | U.S. citizen or permanent resident | | | | | | | |
|---|---|-------|------------------------------------|----------------------------------|-------|---------------------------|-------|--------------------|---------------------------------|------------------------|
| | | | Hispanic or Latino | Not Hispanic or Latino | | | | | | Ethnicity not reported |
| | | | | American Indian or Alaska Native | Asian | Black or African American | White | More than one race | Other race or race not reported | |
| All fields | 35,274 | 100.0 | 8.1 | 0.3 | 9.7 | 7.1 | 68.7 | 3.2 | 1.1 | 1.8 |
| Life sciences | 9,052 | 100.0 | 8.6 | 0.3 | 11.5 | 6.0 | 68.0 | 3.3 | 1.0 | 1.3 |
| Agricultural sciences and natural resources | 822 | 100.0 | 6.6 | 0.6 | 5.6 | 4.9 | 77.4 | 2.3 | 1.1 | 1.6 |
| Biological and biomedical sciences | 6,380 | 100.0 | 9.4 | 0.2 | 12.7 | 4.3 | 67.8 | 3.6 | 1.0 | 1.0 |
| Health sciences | 1,850 | 100.0 | 6.5 | 0.5 | 10.1 | 12.1 | 64.8 | 2.6 | 0.9 | 2.3 |
| Physical sciences and earth sciences | 3,903 | 100.0 | 6.9 | 0.2 | 9.4 | 2.3 | 75.4 | 3.6 | 0.9 | 1.4 |
| Chemistry | 1,781 | 100.0 | 8.4 | 0.2 | 10.5 | 3.5 | 71.6 | 3.7 | 0.7 | 1.5 |
| Geosciences, atmospheric sciences, and ocean sciences | 809 | 100.0 | 6.4 | 0.5 | 3.8 | 1.9 | 81.1 | 3.8 | 1.1 | 1.4 |
| Physics and astronomy | 1,313 | 100.0 | 5.2 | 0.1 | 11.3 | 0.8 | 77.1 | 3.3 | 0.9 | 1.4 |
| Mathematics and computer sciences | 1,787 | 100.0 | 5.8 | 0.1 | 14.1 | 3.9 | 69.1 | 3.8 | 1.5 | 1.8 |
| Computer and information sciences | 800 | 100.0 | 4.8 | 0.1 | 16.8 | 4.6 | 67.4 | 3.4 | 1.5 | 1.5 |
| Mathematics and statistics | 987 | 100.0 | 6.6 | 0.0 | 12.0 | 3.2 | 70.5 | 4.2 | 1.5 | 2.0 |

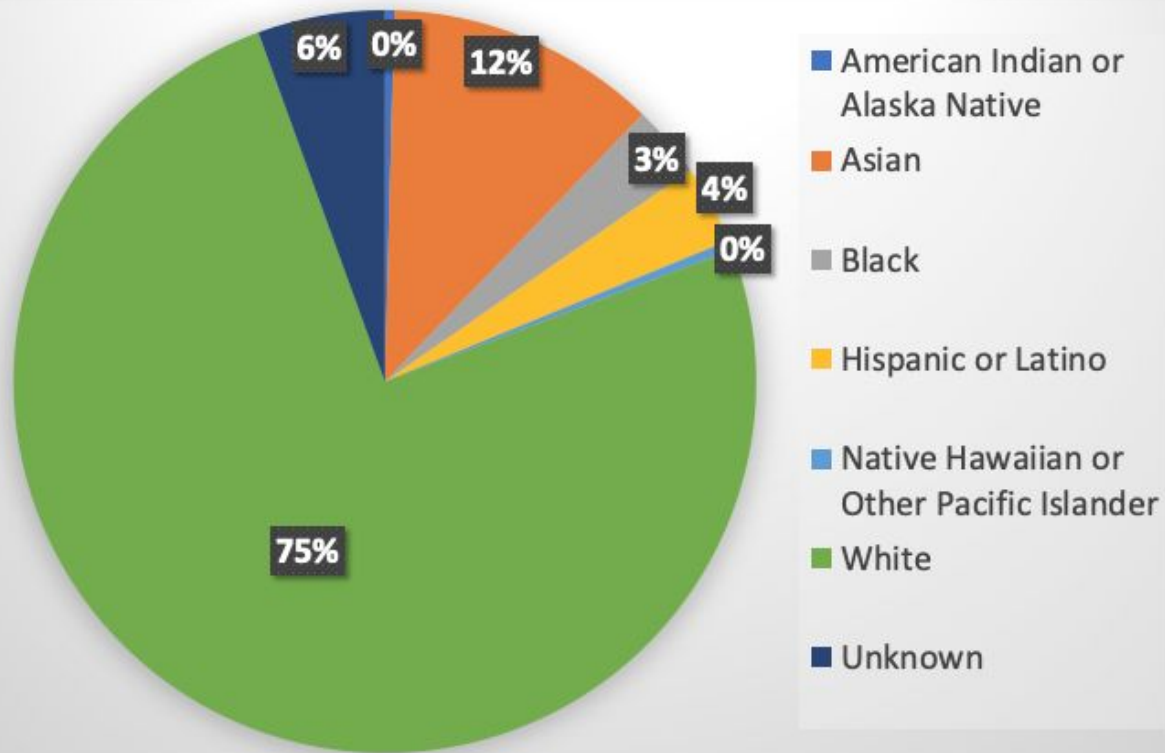
New PhDs Awarded (AMS)

● Total Doctoral Degrees Awarded ■ Doctoral Mathematics Combined ▲ Statistics & Biostatistics Combined



New Domestic Math PhDs by Race/Ethnicity (AMS)

Among the US citizens earning PhDs, 4 were American Indian or Alaska Native, 113 were Asian, 30 were Black or African American, 33 were Hispanic or Latino, 4 were Native Hawaiian or Other Pacific Islander, 720 were White, and 53 were of unknown race/ethnicity.



Overall New Math PhDs Race/Ethnicity (AMS)

All Groups Combined

315 of 321 departments responding (16 with no degrees)

| | MEN | | | | | WOMEN | | | | | Neither | | | | | TOTAL |
|-------------|-------------|--------|------|-----|-------|-------------|--------|-----|------|-------|-------------|--------|---|---|-------|-------|
| | Citizenship | | | | Total | Citizenship | | | | Total | Citizenship | | | | Total | |
| | US | Non-US | | | | US | Non-US | | | | US | Non-US | | | | |
| | | Perm | Temp | Unk | Perm | | Temp | Unk | Perm | Temp | | Unk | | | | |
| Am Ind/Alas | 3 | 0 | 5 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| Asian | 68 | 23 | 410 | 42 | 543 | 45 | 16 | 205 | 22 | 288 | 0 | 0 | 0 | 0 | 0 | 831 |
| Bl/Afr Am | 19 | 5 | 15 | 1 | 40 | 11 | 1 | 2 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 54 |
| Hisp/Lat | 27 | 4 | 28 | 1 | 60 | 6 | 0 | 7 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 73 |
| Haw/Pac Is | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| White | 527 | 13 | 127 | 4 | 671 | 189 | 8 | 39 | 3 | 239 | 4 | 0 | 0 | 0 | 4 | 914 |
| Unknown | 39 | 0 | 3 | 9 | 51 | 14 | 2 | 3 | 2 | 21 | 0 | 0 | 0 | 0 | 0 | 72 |
| TOTAL | 686 | 45 | 588 | 57 | 1376 | 267 | 27 | 256 | 27 | 577 | 4 | 0 | 0 | 0 | 4 | 1957 |

Amy Harmon NYTimes In

What I Learned While Reporting on the Dearth of Black Mathematicians

2/20/19

One is the sheer magnitude of the underrepresentation of black academics in research math. According to the American Mathematical Society, there are 1,769 tenured mathematicians at the math departments of the 50 United States universities that produce the most math Ph.D.s. No one tallies the number of black mathematicians in those departments, but as best I can tell, there are 13. That comes to seven-tenths of 1 percent of the total — perhaps as far as any job classification gets from accurately reflecting the share of black Americans in the general adult population, which stands at 13 percent.