NATIONAL SCIENCE BOARD SCIENCE \& ENGINEERING INDICATORS 2024

# Academic Research and Development 

## Supplemental Tables

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This publication is part of the 2024 edition of the Science and Engineering Indicators (Indicators) suite of reports. Indicators is prepared under the guidance of the National Science Board by the National Science Foundation's National Center for Science and Engineering Statistics. The Indicators suite consists of a summary report called The State of U.S. Science and Engineering, more-detailed thematic reports with supporting data, and a data tool that provides state-level indicators.

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Table SURD-1
S\&E doctorate holders employed in academia, by type of position and degree field: 2003-21

| Type of position and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All positions |  |  |  |  |  |  |  |  |  |
| All fields | 259.5 | 272.8 | 276.5 | 294.8 | 309.0 | 329.3 | 326.6 | 350.4 | 347.2 |
| Physical sciences | 39.9 | 39.6 | 39.9 | 43.7 | 44.9 | 48.4 | 46.3 | 49.8 | 48.1 |
| Mathematics and statistics | 16.7 | 17.4 | 18.0 | 18.7 | 19.0 | 20.9 | 19.6 | 20.6 | 20.8 |
| Computer and information sciences | 5.2 | 5.8 | 6.9 | 7.3 | 8.4 | 9.1 | 8.8 | 10.7 | 11.8 |
| Life sciences | 90.0 | 95.5 | 94.2 | 102.0 | 109.8 | 112.7 | 113.1 | 119.8 | 119.6 |
| Psychology | 31.8 | 35.0 | 34.5 | 35.4 | 36.3 | 38.7 | 37.9 | 39.7 | 38.8 |
| Social sciences | 48.1 | 50.0 | 52.5 | 54.9 | 55.9 | 59.7 | 60.4 | 64.8 | 61.3 |
| Engineering | 27.8 | 29.6 | 30.4 | 32.8 | 34.7 | 39.7 | 40.5 | 45.0 | 46.8 |
| All full-time faculty |  |  |  |  |  |  |  |  |  |
| All fields | 190.6 | 193.1 | 199.1 | 206.8 | 214.4 | 227.7 | 223.4 | 246.8 | 243.4 |
| Physical sciences | 27.6 | 26.9 | 27.6 | 29.3 | 29.5 | 31.2 | 29.3 | 33.0 | 31.3 |
| Mathematics and statistics | 14.0 | 14.0 | 14.8 | 15.1 | 15.5 | 16.7 | 15.4 | 16.3 | 16.4 |
| Computer and information sciences | 4.2 | 4.9 | 5.7 | 5.8 | 6.4 | 7.1 | 7.0 | 8.6 | 9.6 |
| Life sciences | 61.7 | 62.8 | 63.5 | 66.7 | 70.6 | 70.8 | 70.3 | 77.1 | 76.7 |
| Psychology | 21.4 | 23.2 | 23.1 | 23.3 | 24.1 | 25.9 | 26.3 | 27.9 | 27.7 |
| Social sciences | 39.6 | 39.2 | 42.1 | 43.1 | 43.5 | 46.6 | 46.4 | 50.4 | 46.4 |
| Engineering | 21.9 | 22.1 | 22.7 | 23.4 | 25.0 | 29.2 | 28.7 | 33.4 | 35.3 |
| Full-time professors |  |  |  |  |  |  |  |  |  |
| All fields | 87.7 | 85.3 | 90.5 | 93.6 | 95.3 | 98.9 | 94.7 | 109.1 | 107.8 |
| Physical sciences | 14.3 | 13.3 | 14.0 | 15.0 | 14.6 | 15.0 | 13.7 | 16.4 | 15.7 |
| Mathematics and statistics | 7.2 | 6.9 | 7.3 | 7.3 | 7.3 | 7.9 | 6.9 | 7.5 | 8.0 |
| Computer and information sciences | 1.2 | 1.6 | 1.9 | 2.2 | 2.6 | 2.6 | 2.7 | 3.3 | 3.7 |
| Life sciences | 25.7 | 25.6 | 26.6 | 28.1 | 29.5 | 28.3 | 27.7 | 31.3 | 31.0 |
| Psychology | 9.8 | 9.8 | 10.0 | 9.9 | 10.4 | 10.9 | 10.7 | 12.2 | 12.6 |
| Social sciences | 18.6 | 17.5 | 19.2 | 19.6 | 19.2 | 20.6 | 19.9 | 22.8 | 20.6 |
| Engineering | 10.9 | 10.6 | 11.7 | 11.5 | 11.7 | 13.5 | 13.0 | 15.8 | 16.4 |
| Full-time associate professors |  |  |  |  |  |  |  |  |  |
| All fields | 54.3 | 54.1 | 57.0 | 59.1 | 62.7 | 69.3 | 67.7 | 72.9 | 72.0 |
| Physical sciences | 6.9 | 6.9 | 7.0 | 7.4 | 7.6 | 8.3 | 8.4 | 8.7 | 8.8 |
| Mathematics and statistics | 4.0 | 3.8 | 4.3 | 4.2 | 4.4 | 5.1 | 4.9 | 5.1 | 4.3 |
| Computer and information sciences | 1.7 | 1.6 | 1.9 | 2.1 | 2.3 | 2.6 | 2.2 | 2.6 | 2.9 |
| Life sciences | 17.7 | 18.1 | 18.2 | 19.1 | 20.3 | 21.4 | 20.7 | 22.9 | 23.3 |
| Psychology | 5.9 | 6.3 | 7.0 | 7.0 | 7.6 | 8.2 | 8.8 | 8.5 | 8.2 |
| Social sciences | 12.1 | 11.8 | 12.8 | 13.1 | 13.8 | 15.3 | 14.7 | 16.3 | 14.9 |
| Engineering | 5.9 | 5.6 | 5.9 | 6.2 | 6.8 | 8.3 | 8.0 | 8.8 | 9.6 |

Table SURD-1
S\&E doctorate holders employed in academia, by type of position and degree field: 2003-21

## (Thousands)

| Type of position and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Full-time junior faculty ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| All fields | 48.6 | 53.7 | 51.6 | 54.1 | 56.4 | 59.5 | 61.0 | 64.8 | 63.6 |
| Physical sciences | 6.4 | 6.7 | 6.6 | 6.9 | 7.3 | 7.9 | 7.2 | 7.9 | 6.8 |
| Mathematics and statistics | 2.8 | 3.3 | 3.2 | 3.6 | 3.8 | 3.7 | 3.6 | 3.8 | 4.2 |
| Computer and information sciences | 1.3 | 1.7 | 1.9 | 1.5 | 1.5 | 1.9 | 2.1 | 2.8 | 3.1 |
| Life sciences | 18.3 | 19.1 | 18.7 | 19.5 | 20.8 | 21.1 | 21.9 | 22.9 | 22.4 |
| Psychology | 5.7 | 7.1 | 6.1 | 6.4 | 6.1 | 6.8 | 6.8 | 7.2 | 6.9 |
| Social sciences | 8.9 | 9.9 | 10.1 | 10.4 | 10.5 | 10.7 | 11.8 | 11.4 | 10.9 |
| Engineering | 5.1 | 5.9 | 5.1 | 5.7 | 6.5 | 7.4 | 7.7 | 8.8 | 9.3 |
| Other full-time positions ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |
| All fields | 39.9 | 40.6 | 43.9 | 48.2 | 55.8 | 62.6 | 64.2 | 65.7 | 65.8 |
| Physical sciences | 8.4 | 7.2 | 7.4 | 7.9 | 8.8 | 11.1 | 11.1 | 11.0 | 10.5 |
| Mathematics and statistics | 1.4 | 1.3 | 1.7 | 1.8 | 2.1 | 2.5 | 2.2 | 2.2 | 2.5 |
| Computer and information sciences | 0.6 | 0.6 | 0.9 | 1.0 | 1.5 | 1.4 | 1.3 | 1.6 | 1.6 |
| Life sciences | 14.2 | 15.5 | 16.2 | 18.4 | 22.2 | 25.0 | 26.6 | 26.4 | 27.1 |
| Psychology | 6.3 | 6.5 | 6.8 | 7.1 | 6.9 | 7.9 | 7.4 | 7.8 | 7.0 |
| Social sciences | 5.0 | 6.1 | 6.2 | 6.9 | 7.7 | 8.3 | 8.0 | 9.2 | 9.7 |
| Engineering | 3.9 | 3.3 | 4.7 | 5.1 | 6.3 | 6.5 | 7.6 | 7.6 | 7.3 |
| Postdoctorates |  |  |  |  |  |  |  |  |  |
| All fields | 15.7 | 23.3 | 17.8 | 22.8 | 20.2 | 19.2 | 18.4 | 18.6 | 19.7 |
| Physical sciences | 2.6 | 3.9 | 3.3 | 4.6 | 4.0 | 3.3 | 3.4 | 3.6 | 4.1 |
| Mathematics and statistics | 0.5 | 1.0 | 0.5 | 0.7 | 0.4 | 0.5 | 0.5 | 0.7 | 0.6 |
| Computer and information sciences | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 |
| Life sciences | 10.0 | 12.8 | 10.3 | 12.2 | 11.9 | 11.7 | 10.5 | 10.5 | 10.4 |
| Psychology | 0.9 | 1.7 | 1.0 | 1.1 | 1.0 | 0.8 | 0.7 | 0.8 | 0.7 |
| Social sciences | 0.5 | 0.9 | 0.3 | 0.8 | 0.4 | 0.4 | 0.5 | 0.5 | 0.8 |
| Engineering | 1.1 | 3.0 | 2.1 | 3.1 | 2.4 | 2.2 | 2.6 | 2.3 | 2.9 |
| Part-time positions ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| All fields | 13.3 | 15.7 | 15.6 | 17.0 | 18.5 | 19.8 | 20.5 | 19.3 | 18.3 |
| Physical sciences | 1.1 | 1.5 | 1.6 | 2.0 | 2.5 | 2.8 | 2.6 | 2.2 | 2.1 |
| Mathematics and statistics | 0.9 | 1.2 | 1.0 | 1.1 | 1.1 | 1.2 | 1.5 | 1.4 | 1.2 |
| Computer and information sciences | 0.2 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| Life sciences | 4.0 | 4.4 | 4.3 | 4.6 | 5.2 | 5.2 | 5.7 | 5.7 | 5.3 |
| Psychology | 3.2 | 3.6 | 3.7 | 3.8 | 4.2 | 4.1 | 3.6 | 3.2 | 3.4 |
| Social sciences | 3.1 | 3.7 | 4.0 | 4.0 | 4.2 | 4.4 | 5.4 | 4.6 | 4.5 |
| Engineering | 0.8 | 1.1 | 0.9 | 1.2 | 1.1 | 1.8 | 1.6 | 1.7 | 1.3 |

${ }^{\text {a }}$ Full-time junior faculty include assistant professors.
${ }^{\text {b }}$ Other full-time positions include those such as research associates, adjunct positions, lecturers, administrative positions, and instructors.
${ }^{\text {c }}$ Part-time positions exclude those employed part time because they are students or retired.

## Note(s):

Academic employment is limited to U.S. doctorate holders employed at 2- or 4 -year colleges or universities, medical schools, and university research institutes. Degree fields use the traditional field of study aggregations from 2003 to 2015; from 2017, fine degree fields are aggregated at broad levels of the National Center for Science and Engineering Statistics Taxonomy of Disciplines.
Physical sciences include earth, atmospheric, and ocean sciences; life sciences include biological, agricultural, and environmental life and health sciences. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.
Science and Engineering Indicators

Table SURD-2
S\&E doctorate holders employed in academia, by research priority, type of position, and degree field: 2003-21

## (Thousands)

| Research priority, type of position, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All positions | 259.5 | 272.8 | 276.5 | 294.8 | 309.0 | 329.3 | 326.6 | 350.4 | 347.2 |
| Physical sciences | 39.9 | 39.6 | 39.9 | 43.7 | 44.9 | 48.4 | 46.9 | 50.5 | 48.1 |
| Mathematics and statistics | 16.7 | 17.4 | 18.0 | 18.7 | 19.0 | 20.9 | 20.6 | 21.7 | 20.8 |
| Computer and information sciences | 5.2 | 5.8 | 6.9 | 7.3 | 8.4 | 9.1 | 8.9 | 10.9 | 11.8 |
| Life sciences | 90.0 | 95.5 | 94.2 | 102.0 | 109.8 | 112.7 | 112.6 | 118.8 | 119.6 |
| Psychology | 31.8 | 35.0 | 34.5 | 35.4 | 36.3 | 38.7 | 38.0 | 39.9 | 38.8 |
| Social sciences | 48.1 | 50.0 | 52.5 | 54.9 | 55.9 | 59.7 | 59.9 | 64.4 | 61.4 |
| Engineering | 27.8 | 29.6 | 30.4 | 32.8 | 34.7 | 39.7 | 39.8 | 44.1 | 46.8 |
| Full-time faculty | 190.6 | 193.1 | 199.1 | 206.9 | 214.4 | 227.7 | 223.4 | 246.8 | 243.4 |
| Physical sciences | 27.7 | 26.9 | 27.5 | 29.3 | 29.5 | 31.1 | 29.7 | 33.5 | 31.3 |
| Mathematics and statistics | 14.0 | 14.0 | 14.8 | 15.1 | 15.5 | 16.8 | 16.3 | 17.3 | 16.5 |
| Computer and information sciences | 4.2 | 4.9 | 5.6 | 5.7 | 6.4 | 7.1 | 7.1 | 8.7 | 9.6 |
| Life sciences | 61.7 | 62.8 | 63.5 | 66.7 | 70.5 | 70.8 | 70.0 | 76.6 | 76.7 |
| Psychology | 21.5 | 23.2 | 23.0 | 23.4 | 24.1 | 26.0 | 26.3 | 28.0 | 27.7 |
| Social sciences | 39.6 | 39.2 | 42.0 | 43.2 | 43.6 | 46.7 | 46.0 | 50.1 | 46.4 |
| Engineering | 21.9 | 22.1 | 22.7 | 23.4 | 25.0 | 29.2 | 28.2 | 32.6 | 35.3 |
| Research as primary or secondary activity |  |  |  |  |  |  |  |  |  |
| All positions | 179.3 | 183.7 | 187.1 | 198.2 | 201.7 | 220.8 | 217.3 | 233.6 | 236.1 |
| Physical sciences | 28.2 | 26.9 | 26.8 | 28.9 | 29.5 | 32.8 | 30.7 | 33.3 | 32.4 |
| Mathematics and statistics | 10.7 | 11.4 | 11.7 | 12.3 | 11.8 | 13.4 | 13.4 | 14.6 | 13.8 |
| Computer and information sciences | 3.9 | 4.1 | 4.8 | 5.1 | 5.7 | 6.4 | 6.2 | 7.4 | 8.1 |
| Life sciences | 65.6 | 66.7 | 66.4 | 71.4 | 74.2 | 78.3 | 76.9 | 81.8 | 82.7 |
| Psychology | 19.1 | 20.5 | 21.3 | 21.2 | 20.2 | 21.1 | 22.0 | 23.0 | 23.1 |
| Social sciences | 31.5 | 32.7 | 33.8 | 35.2 | 34.7 | 38.2 | 38.2 | 40.8 | 40.9 |
| Engineering | 20.3 | 21.4 | 22.3 | 24.1 | 25.6 | 30.5 | 30.0 | 32.8 | 35.3 |
| Full-time faculty | 135.2 | 133.7 | 138.6 | 142.6 | 144.4 | 159.6 | 156.3 | 172.7 | 172.7 |
| Physical sciences | 19.9 | 18.2 | 18.7 | 19.6 | 19.7 | 21.9 | 20.6 | 23.1 | 22.0 |
| Mathematics and statistics | 9.2 | 9.6 | 10.1 | 10.4 | 10.0 | 11.4 | 11.5 | 12.1 | 11.3 |
| Computer and information sciences | 3.3 | 3.6 | 4.1 | 4.1 | 4.5 | 5.3 | 5.2 | 6.1 | 6.8 |
| Life sciences | 45.1 | 44.3 | 44.5 | 46.1 | 47.8 | 49.9 | 48.3 | 53.8 | 54.2 |
| Psychology | 14.4 | 14.9 | 15.9 | 16.1 | 15.3 | 16.4 | 17.2 | 18.2 | 18.2 |
| Social sciences | 27.0 | 27.2 | 29.0 | 29.6 | 28.9 | 31.9 | 32.2 | 34.5 | 33.3 |
| Engineering | 16.2 | 15.8 | 16.4 | 16.9 | 18.1 | 22.9 | 21.5 | 24.9 | 26.9 |
| Research as primary activity |  |  |  |  |  |  |  |  |  |
| All positions | 102.9 | 108.2 | 107.9 | 117.5 | 120.7 | 133.7 | 130.1 | 138.4 | 136.8 |
| Physical sciences | 16.2 | 16.3 | 15.7 | 17.5 | 18.2 | 20.8 | 19.4 | 19.7 | 19.2 |

Table SURD-2
S\&E doctorate holders employed in academia, by research priority, type of position, and degree field: 2003-21
(Thousands)

| Research priority, type of position, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics and statistics | 3.8 | 5.0 | 5.6 | 5.7 | 5.6 | 6.4 | 6.1 | 7.0 | 7.0 |
| Computer and information sciences | 1.9 | 2.0 | 2.6 | 2.8 | 3.1 | 3.9 | 3.7 | 3.9 | 4.5 |
| Life sciences | 46.4 | 47.0 | 45.3 | 49.7 | 51.0 | 54.4 | 53.2 | 54.7 | 54.4 |
| Psychology | 10.0 | 11.2 | 11.1 | 11.4 | 10.9 | 11.3 | 11.2 | 12.8 | 11.6 |
| Social sciences | 13.0 | 13.6 | 14.0 | 15.6 | 15.9 | 17.3 | 16.6 | 19.3 | 17.7 |
| Engineering | 11.6 | 13.1 | 13.6 | 15.0 | 16.0 | 19.6 | 20.1 | 20.9 | 22.5 |
| Full-time faculty | 70.4 | 70.2 | 71.7 | 75.0 | 77.4 | 88.7 | 84.5 | 94.6 | 91.9 |
| Physical sciences | 9.7 | 9.3 | 9.4 | 9.8 | 10.4 | 12.1 | 11.5 | 11.9 | 11.0 |
| Mathematics and statistics | 3.4 | 3.9 | 4.6 | 4.6 | 4.5 | 5.4 | 5.1 | 5.7 | 5.5 |
| Computer and information sciences | 1.6 | 1.7 | 2.1 | 2.1 | 2.4 | 3.1 | 2.9 | 3.2 | 3.7 |
| Life sciences | 29.4 | 27.8 | 27.1 | 28.2 | 29.1 | 31.0 | 29.2 | 32.4 | 31.9 |
| Psychology | 7.0 | 7.8 | 7.8 | 8.0 | 7.9 | 8.6 | 8.6 | 9.9 | 9.1 |
| Social sciences | 10.7 | 11.3 | 11.8 | 12.9 | 13.0 | 14.7 | 14.0 | 16.4 | 14.3 |
| Engineering | 8.6 | 8.5 | 8.9 | 9.4 | 10.1 | 13.8 | 13.4 | 15.1 | 16.4 |
| Teaching as primary activity |  |  |  |  |  |  |  |  |  |
| All positions | 105.9 | 109.4 | 114.0 | 120.6 | 124.8 | 133.7 | 132.8 | 140.3 | 141.1 |
| Physical sciences | 17.0 | 16.9 | 17.5 | 18.8 | 18.7 | 19.7 | 19.6 | 21.4 | 20.5 |
| Mathematics and statistics | 9.4 | 9.9 | 10.3 | 10.7 | 11.3 | 12.2 | 12.1 | 12.7 | 11.7 |
| Computer and information sciences | 2.5 | 3.0 | 3.2 | 3.8 | 4.0 | 3.6 | 3.7 | 4.9 | 5.2 |
| Life sciences | 25.2 | 27.6 | 28.2 | 30.6 | 33.9 | 35.0 | 34.7 | 36.5 | 37.9 |
| Psychology | 13.3 | 14.3 | 14.4 | 15.0 | 14.9 | 16.3 | 17.0 | 15.5 | 16.3 |
| Social sciences | 27.3 | 27.5 | 29.6 | 29.8 | 30.0 | 33.4 | 33.4 | 33.9 | 33.3 |
| Engineering | 11.2 | 10.2 | 10.8 | 11.9 | 11.9 | 13.5 | 12.5 | 15.5 | 16.3 |
| Full-time faculty | 89.9 | 88.4 | 93.5 | 96.7 | 98.2 | 101.9 | 100.3 | 109.2 | 110.0 |
| Physical sciences | 14.3 | 13.8 | 14.2 | 15.1 | 14.5 | 14.6 | 13.8 | 16.0 | 15.5 |
| Mathematics and statistics | 8.5 | 8.2 | 8.6 | 8.8 | 9.3 | 9.5 | 9.2 | 10.2 | 9.4 |
| Computer and information sciences | 2.2 | 2.5 | 2.8 | 3.2 | 3.4 | 3.0 | 3.0 | 4.1 | 4.3 |
| Life sciences | 21.0 | 21.8 | 23.1 | 24.4 | 26.1 | 26.3 | 26.3 | 27.9 | 28.6 |
| Psychology | 10.8 | 11.1 | 11.1 | 11.3 | 11.0 | 11.8 | 12.4 | 11.9 | 12.7 |
| Social sciences | 23.1 | 21.9 | 24.3 | 23.9 | 23.8 | 25.7 | 25.5 | 26.6 | 25.8 |
| Engineering | 9.9 | 8.9 | 9.4 | 10.0 | 10.1 | 11.1 | 10.2 | 12.6 | 13.7 |
| Other primary activity |  |  |  |  |  |  |  |  |  |
| All positions | 49.5 | 55.2 | 54.6 | 56.6 | 63.5 | 61.9 | 63.6 | 71.7 | 69.4 |
| Physical sciences | 7.2 | 6.5 | 6.7 | 7.4 | 8.0 | 7.9 | 8.0 | 9.5 | 8.4 |
| Mathematics and statistics | 2.2 | 2.5 | 2.1 | 2.3 | 2.1 | 2.3 | 2.5 | 2.0 | 2.2 |
| Computer and information sciences | 0.8 | 0.8 | 1.1 | 0.8 | 1.4 | 1.5 | 1.6 | 2.1 | 2.1 |

## Table SURD-2

S\&E doctorate holders employed in academia, by research priority, type of position, and degree field: 2003-21
(Thousands)

| Research priority, type of position, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Life sciences | 17.6 | 20.9 | 20.8 | 21.6 | 24.9 | 23.3 | 24.7 | 27.7 | 27.3 |
| Psychology | 8.1 | 9.5 | 9.0 | 9.1 | 10.4 | 11.1 | 9.8 | 11.6 | 11.0 |
| Social sciences | 8.2 | 8.8 | 8.9 | 9.5 | 9.9 | 9.1 | 9.9 | 11.2 | 10.5 |
| Engineering | 5.5 | 6.2 | 5.9 | 6.0 | 6.8 | 6.7 | 7.2 | 7.6 | 8.1 |
| Full-time faculty | 30.3 | 34.6 | 33.9 | 35.1 | 38.8 | 37.1 | 38.6 | 43.1 | 41.6 |
| Physical sciences | 3.6 | 3.8 | 3.9 | 4.4 | 4.6 | 4.4 | 4.5 | 5.6 | 4.9 |
| Mathematics and statistics | 1.9 | 1.9 | 1.6 | 1.7 | 1.6 | 1.9 | 2.0 | 1.4 | 1.6 |
| Computer and information sciences | 0.3 | 0.5 | 0.7 | 0.4 | 0.6 | 1.1 | 1.2 | 1.5 | 1.6 |
| Life sciences | 11.3 | 13.2 | 13.3 | 14.0 | 15.3 | 13.5 | 14.5 | 16.3 | 16.2 |
| Psychology | 3.7 | 4.4 | 4.1 | 4.1 | 5.1 | 5.6 | 5.4 | 6.2 | 5.9 |
| Social sciences | 5.8 | 6.0 | 5.9 | 6.5 | 6.8 | 6.3 | 6.6 | 7.1 | 6.3 |
| Engineering | 3.5 | 4.7 | 4.4 | 3.9 | 4.7 | 4.3 | 4.7 | 5.0 | 5.3 |

Note(s):



 environmental life and health sciences.

## Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.
Science and Engineering Indicators

## Table SURD-3

## S\&E doctorate holders employed in academia with federal support, by degree field, research activity, and type of position: 2021

| Degree field, research activity, and type of position | 2021 |
| :---: | :---: |
| All fields | 39.7 |
| Research as primary or secondary activity | 49.4 |
| Full-time faculty | 39.8 |
| Other full-time positions | 36.7 |
| Postdoctorates | 67.3 |
| Physical sciences | 48.7 |
| Research as primary or secondary activity | 60.7 |
| Full-time faculty | 49.7 |
| Other full-time positions | 44.8 |
| Postdoctorates | 66.3 |
| Mathematics and statistics | 22.9 |
| Research as primary or secondary activity | 30.8 |
| Full-time faculty | 23.0 |
| Other full-time positions | 18.8 |
| Postdoctorates | 50.1 |
| Computer and information sciences | 43.1 |
| Research as primary or secondary activity | 55.4 |
| Full-time faculty | 44.1 |
| Other full-time positions | 34.0 |
| Postdoctorates | 78.7 |
| Life sciences | 50.1 |
| Research as primary or secondary activity | 61.6 |
| Full-time faculty | 51.3 |
| Other full-time positions | 43.2 |
| Postdoctorates | 72.3 |
| Psychology | 28.4 |
| Research as primary or secondary activity | 39.6 |
| Full-time faculty | 30.7 |
| Other full-time positions | 19.1 |
| Postdoctorates | 73.0 |
| Social sciences | 17.4 |
| Research as primary or secondary activity | 20.5 |
| Full-time faculty | 17.7 |
| Other full-time positions | 17.3 |
| Postdoctorates | 28.2 |
| Engineering | 49.1 |

## Table SURD-3

## S\&E doctorate holders employed in academia with federal support, by degree field, research activity, and type of position: 2021

(Percent)

| Degree field, research activity, and type of position | 2021 |
| :---: | :---: |
| Research as primary or secondary activity | 56.4 |
| Full-time faculty | 48.6 |
| Other full-time positions | 50.6 |
| Postdoctorates | 63.1 |

## Note(s):


 research, development, or design. Physical sciences include earth, atmospheric, and ocean sciences; life sciences include biological, agricultural, and environmental life and health sciences.

## Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.
Science and Engineering Indicators

Table SURD-4
S\&E doctorate holders employed in academia, by type of position, sex, and degree field: 2003-21

## (Thousands)

| Type of position, sex, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All positions |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 259.5 | 272.8 | 276.5 | 294.8 | 309.0 | 329.3 | 326.6 | 350.4 | 347.2 |
| Physical sciences | 39.9 | 39.6 | 39.9 | 43.7 | 44.9 | 48.4 | 46.3 | 49.8 | 48.1 |
| Mathematics and statistics | 16.7 | 17.4 | 18.0 | 18.7 | 19.0 | 20.9 | 19.6 | 20.6 | 20.8 |
| Computer and information sciences | 5.2 | 5.8 | 6.9 | 7.3 | 8.4 | 9.1 | 8.8 | 10.7 | 11.8 |
| Life sciences | 90.0 | 95.5 | 94.2 | 102.0 | 109.8 | 112.7 | 113.1 | 119.8 | 119.6 |
| Psychology | 31.8 | 35.0 | 34.5 | 35.4 | 36.3 | 38.7 | 37.9 | 39.7 | 38.8 |
| Social sciences | 48.1 | 50.0 | 52.5 | 54.9 | 55.9 | 59.7 | 60.4 | 64.8 | 61.3 |
| Engineering | 27.8 | 29.6 | 30.4 | 32.8 | 34.7 | 39.7 | 40.5 | 45.0 | 46.8 |
| Male, all fields | 180.7 | 182.7 | 182.3 | 189.6 | 195.0 | 206.0 | 201.1 | 213.1 | 206.4 |
| Physical sciences | 33.7 | 32.3 | 32.1 | 34.4 | 34.5 | 36.9 | 34.8 | 36.8 | 34.4 |
| Mathematics and statistics | 13.8 | 14.1 | 14.1 | 14.4 | 14.6 | 15.7 | 14.7 | 15.2 | 15.6 |
| Computer and information sciences | 4.3 | 4.5 | 5.5 | 5.8 | 6.7 | 7.2 | 6.8 | 8.3 | 8.9 |
| Life sciences | 56.6 | 57.9 | 55.5 | 58.7 | 61.8 | 60.7 | 60.5 | 63.0 | 61.6 |
| Psychology | 15.6 | 16.0 | 15.6 | 15.6 | 15.2 | 16.4 | 15.9 | 15.8 | 15.0 |
| Social sciences | 32.0 | 31.9 | 33.1 | 33.4 | 33.3 | 36.4 | 35.6 | 37.6 | 34.6 |
| Engineering | 24.8 | 26.0 | 26.3 | 27.3 | 28.9 | 32.8 | 32.8 | 36.3 | 36.3 |
| Female, all fields | 78.7 | 90.1 | 94.2 | 105.2 | 114.0 | 123.3 | 125.4 | 137.3 | 140.8 |
| Physical sciences | 6.1 | 7.3 | 7.8 | 9.3 | 10.4 | 11.5 | 11.5 | 13.0 | 13.6 |
| Mathematics and statistics | 2.9 | 3.3 | 3.9 | 4.3 | 4.5 | 5.2 | 4.9 | 5.3 | 5.2 |
| Computer and information sciences | 1.0 | 1.2 | 1.4 | 1.5 | 1.8 | 1.9 | 2.0 | 2.4 | 2.9 |
| Life sciences | 33.4 | 37.6 | 38.7 | 43.3 | 48.0 | 52.0 | 52.6 | 56.7 | 58.0 |
| Psychology | 16.2 | 19.0 | 18.9 | 19.8 | 21.1 | 22.3 | 22.0 | 23.9 | 23.8 |
| Social sciences | 16.2 | 18.2 | 19.5 | 21.5 | 22.6 | 23.4 | 24.8 | 27.2 | 26.8 |
| Engineering | 3.0 | 3.6 | 4.1 | 5.5 | 5.7 | 7.0 | 7.6 | 8.7 | 10.5 |
| Full-time senior faculty ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 142.0 | 139.4 | 147.5 | 152.8 | 158.0 | 168.2 | 162.4 | 182.0 | 179.8 |
| Physical sciences | 21.3 | 20.2 | 20.9 | 22.4 | 22.2 | 23.2 | 22.1 | 25.1 | 24.5 |
| Mathematics and statistics | 11.2 | 10.7 | 11.6 | 11.5 | 11.7 | 13.1 | 11.8 | 12.5 | 12.2 |
| Computer and information sciences | 2.9 | 3.2 | 3.8 | 4.2 | 4.9 | 5.3 | 5.0 | 5.8 | 6.5 |
| Life sciences | 43.4 | 43.7 | 44.8 | 47.2 | 49.8 | 49.7 | 48.4 | 54.2 | 54.3 |
| Psychology | 15.8 | 16.1 | 17.0 | 17.0 | 18.0 | 19.1 | 19.5 | 20.7 | 20.8 |
| Social sciences | 30.7 | 29.3 | 32.0 | 32.8 | 33.0 | 35.9 | 34.6 | 39.0 | 35.5 |
| Engineering | 16.8 | 16.2 | 17.6 | 17.7 | 18.5 | 21.8 | 21.0 | 24.6 | 26.0 |
| Male, all fields | 109.7 | 104.6 | 108.1 | 109.9 | 111.4 | 116.1 | 109.7 | 122.2 | 116.6 |
| Physical sciences | 18.9 | 17.6 | 17.9 | 18.9 | 18.2 | 18.6 | 17.6 | 19.6 | 18.7 |

Table SURD-4
S\&E doctorate holders employed in academia, by type of position, sex, and degree field: 2003-21
(Thousands)

| Type of position, sex, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics and statistics | 9.9 | 9.2 | 9.6 | 9.4 | 9.9 | 10.4 | 9.4 | 9.8 | 9.5 |
| Computer and information sciences | 2.4 | 2.6 | 3.1 | 3.5 | 3.9 | 4.3 | 4.0 | 4.7 | 5.1 |
| Life sciences | 30.9 | 30.4 | 30.2 | 31.0 | 32.2 | 30.4 | 29.4 | 32.6 | 31.4 |
| Psychology | 9.5 | 9.1 | 9.3 | 9.3 | 9.2 | 9.9 | 9.7 | 9.8 | 9.5 |
| Social sciences | 22.4 | 20.7 | 21.7 | 21.9 | 21.5 | 23.8 | 21.8 | 24.7 | 21.3 |
| Engineering | 15.7 | 15.0 | 16.3 | 16.0 | 16.5 | 18.8 | 17.9 | 21.0 | 21.1 |
| Female, all fields | 32.3 | 34.8 | 39.4 | 42.8 | 46.6 | 52.0 | 52.7 | 59.8 | 63.2 |
| Physical sciences | 2.4 | 2.7 | 3.1 | 3.6 | 4.0 | 4.6 | 4.5 | 5.4 | 5.8 |
| Mathematics and statistics | 1.3 | 1.4 | 1.9 | 2.1 | 1.8 | 2.7 | 2.4 | 2.8 | 2.7 |
| Computer and information sciences | 0.5 | 0.6 | 0.6 | 0.7 | 0.9 | 1.0 | 1.0 | 1.1 | 1.5 |
| Life sciences | 12.5 | 13.3 | 14.6 | 16.2 | 17.5 | 19.3 | 19.0 | 21.6 | 22.9 |
| Psychology | 6.3 | 7.0 | 7.7 | 7.6 | 8.7 | 9.2 | 9.8 | 10.9 | 11.3 |
| Social sciences | 8.3 | 8.7 | 10.2 | 10.9 | 11.6 | 12.2 | 12.8 | 14.3 | 14.1 |
| Engineering | 1.1 | 1.2 | 1.3 | 1.7 | 2.0 | 3.0 | 3.1 | 3.7 | 4.8 |
| Full-time junior faculty ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 48.6 | 53.7 | 51.6 | 54.1 | 56.4 | 59.5 | 61.0 | 64.8 | 63.6 |
| Physical sciences | 6.4 | 6.7 | 6.6 | 6.9 | 7.3 | 7.9 | 7.2 | 7.9 | 6.8 |
| Mathematics and statistics | 2.8 | 3.3 | 3.2 | 3.6 | 3.8 | 3.7 | 3.6 | 3.8 | 4.2 |
| Computer and information sciences | 1.3 | 1.7 | 1.9 | 1.5 | 1.5 | 1.9 | 2.1 | 2.8 | 3.1 |
| Life sciences | 18.3 | 19.1 | 18.7 | 19.5 | 20.8 | 21.1 | 21.9 | 22.9 | 22.4 |
| Psychology | 5.7 | 7.1 | 6.1 | 6.4 | 6.1 | 6.8 | 6.8 | 7.2 | 6.9 |
| Social sciences | 8.9 | 9.9 | 10.1 | 10.4 | 10.5 | 10.7 | 11.8 | 11.4 | 10.9 |
| Engineering | 5.1 | 5.9 | 5.1 | 5.7 | 6.5 | 7.4 | 7.7 | 8.8 | 9.3 |
| Male, all fields | 29.2 | 31.1 | 30.1 | 30.1 | 31.1 | 34.2 | 34.9 | 35.9 | 34.6 |
| Physical sciences | 4.9 | 4.9 | 4.8 | 4.9 | 5.3 | 5.6 | 5.0 | 5.6 | 4.5 |
| Mathematics and statistics | 2.0 | 2.3 | 2.3 | 2.5 | 2.4 | 2.3 | 2.5 | 2.6 | 3.1 |
| Computer and information sciences | 1.0 | 1.2 | 1.4 | 1.1 | 1.1 | 1.4 | 1.6 | 2.1 | 2.3 |
| Life sciences | 10.3 | 10.4 | 9.8 | 9.7 | 10.2 | 10.6 | 10.9 | 10.7 | 10.4 |
| Psychology | 2.3 | 2.6 | 2.4 | 2.2 | 2.0 | 2.5 | 2.4 | 2.3 | 1.8 |
| Social sciences | 4.5 | 5.0 | 5.6 | 5.7 | 5.4 | 5.9 | 6.4 | 5.8 | 5.6 |
| Engineering | 4.3 | 4.6 | 3.8 | 3.9 | 4.8 | 5.8 | 6.1 | 6.8 | 6.9 |
| Female, all fields | 19.3 | 22.6 | 21.5 | 23.9 | 25.3 | 25.3 | 26.1 | 28.9 | 29.0 |
| Physical sciences | 1.5 | 1.8 | 1.8 | 2.0 | 2.1 | 2.3 | 2.1 | 2.3 | 2.3 |
| Mathematics and statistics | 0.8 | 1.0 | 1.0 | 1.1 | 1.4 | 1.3 | 1.1 | 1.2 | 1.1 |
| Computer and information sciences | 0.3 | 0.4 | 0.5 | 0.4 | 0.3 | 0.5 | 0.5 | 0.7 | 0.8 |
| Life sciences | 8.0 | 8.7 | 8.9 | 9.8 | 10.6 | 10.5 | 11.1 | 12.2 | 12.0 |

Table SURD-4
S\&E doctorate holders employed in academia, by type of position, sex, and degree field: 2003-21
(Thousands)

| Type of position, sex, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Psychology | 3.4 | 4.5 | 3.7 | 4.2 | 4.1 | 4.4 | 4.4 | 4.9 | 5.0 |
| Social sciences | 4.4 | 4.9 | 4.4 | 4.7 | 5.2 | 4.8 | 5.3 | 5.6 | 5.3 |
| Engineering | 0.8 | 1.3 | 1.3 | 1.8 | 1.6 | 1.6 | 1.6 | 2.0 | 2.3 |
| Other full-time positions ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 39.9 | 40.6 | 43.9 | 48.2 | 55.8 | 62.6 | 64.2 | 65.7 | 65.8 |
| Physical sciences | 8.4 | 7.2 | 7.4 | 7.9 | 8.8 | 11.2 | 11.1 | 11.0 | 10.5 |
| Mathematics and statistics | 1.4 | 1.3 | 1.7 | 1.8 | 2.1 | 2.4 | 2.2 | 2.2 | 2.5 |
| Computer and information sciences | 0.7 | 0.6 | 0.9 | 1.0 | 1.5 | 1.3 | 1.3 | 1.6 | 1.6 |
| Life sciences | 14.2 | 15.5 | 16.2 | 18.4 | 22.2 | 25.0 | 26.6 | 26.4 | 27.1 |
| Psychology | 6.3 | 6.5 | 6.8 | 7.1 | 6.9 | 7.9 | 7.4 | 7.8 | 7.0 |
| Social sciences | 5.0 | 6.1 | 6.2 | 6.9 | 7.7 | 8.3 | 8.0 | 9.2 | 9.7 |
| Engineering | 3.9 | 3.3 | 4.7 | 5.1 | 6.3 | 6.5 | 7.6 | 7.6 | 7.3 |
| Male, all fields | 26.0 | 25.6 | 26.2 | 28.1 | 32.3 | 35.2 | 35.9 | 35.5 | 35.2 |
| Physical sciences | 7.1 | 5.9 | 5.6 | 5.9 | 6.5 | 8.5 | 8.0 | 7.9 | 7.2 |
| Mathematics and statistics | 1.0 | 0.9 | 1.2 | 1.1 | 1.3 | 1.8 | 1.6 | 1.3 | 1.8 |
| Computer and information sciences | 0.6 | 0.6 | 0.7 | 0.9 | 1.1 | 1.0 | 0.9 | 1.0 | 1.1 |
| Life sciences | 8.3 | 9.0 | 8.6 | 9.5 | 11.1 | 12.3 | 13.0 | 12.6 | 12.7 |
| Psychology | 2.6 | 2.8 | 2.6 | 2.7 | 2.5 | 2.4 | 2.6 | 2.4 | 2.3 |
| Social sciences | 3.1 | 3.5 | 3.3 | 3.7 | 4.3 | 4.1 | 4.0 | 4.6 | 4.9 |
| Engineering | 3.3 | 2.8 | 3.9 | 4.3 | 5.2 | 5.2 | 5.8 | 5.7 | 5.1 |
| Female, all fields | 13.9 | 15.0 | 17.7 | 20.1 | 23.5 | 27.5 | 28.3 | 30.2 | 30.5 |
| Physical sciences | 1.3 | 1.4 | 1.6 | 2.0 | 2.3 | 2.6 | 3.1 | 3.2 | 3.3 |
| Mathematics and statistics | 0.3 | 0.3 | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 0.7 |
| Computer and information sciences | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.5 | 0.5 |
| Life sciences | 5.9 | 6.5 | 7.6 | 8.9 | 11.0 | 12.9 | 13.6 | 13.9 | 14.4 |
| Psychology | 3.5 | 3.7 | 4.2 | 4.4 | 4.4 | 5.4 | 4.8 | 5.3 | 4.7 |
| Social sciences | 1.9 | 2.6 | 2.9 | 3.2 | 3.3 | 4.2 | 4.0 | 4.6 | 4.8 |
| Engineering | 0.6 | 0.5 | 0.8 | 0.7 | 0.9 | 1.5 | 1.8 | 1.9 | 2.2 |
| Postdoctorates |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 15.7 | 23.3 | 17.8 | 22.8 | 20.2 | 19.2 | 18.4 | 18.6 | 19.7 |
| Physical sciences | 2.6 | 3.9 | 3.3 | 4.6 | 4.0 | 3.3 | 3.4 | 3.6 | 4.1 |
| Mathematics and statistics | 0.5 | 1.0 | 0.5 | 0.7 | 0.4 | 0.5 | 0.5 | 0.7 | 0.6 |
| Computer and information sciences | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 |
| Life sciences | 10.0 | 12.8 | 10.3 | 12.2 | 11.9 | 11.7 | 10.5 | 10.5 | 10.4 |
| Psychology | 0.9 | 1.7 | 1.0 | 1.1 | 1.0 | 0.8 | 0.7 | 0.8 | 0.7 |
| Social sciences | 0.5 | 0.9 | 0.3 | 0.8 | 0.4 | 0.4 | 0.5 | 0.5 | 0.8 |

Table SURD-4
S\&E doctorate holders employed in academia, by type of position, sex, and degree field: 2003-21
(Thousands)

| Type of position, sex, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Engineering | 1.1 | 3.0 | 2.1 | 3.1 | 2.4 | 2.2 | 2.6 | 2.3 | 2.9 |
| Male, all fields | 9.8 | 13.8 | 10.8 | 13.8 | 12.0 | 11.0 | 10.8 | 10.7 | 11.5 |
| Physical sciences | 2.1 | 2.9 | 2.5 | 3.4 | 2.8 | 2.3 | 2.5 | 2.5 | 2.8 |
| Mathematics and statistics | 0.3 | 0.8 | 0.4 | 0.6 | 0.3 | 0.4 | 0.5 | 0.6 | 0.4 |
| Computer and information sciences | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | s | 0.2 | 0.2 |
| Life sciences | 5.7 | 6.7 | 5.5 | 6.6 | 6.6 | 5.8 | 5.6 | 5.3 | 5.2 |
| Psychology | 0.4 | 0.5 | 0.4 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 |
| Social sciences | 0.3 | 0.4 | 0.1 | 0.4 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 |
| Engineering | 0.9 | 2.4 | 1.7 | 2.2 | 1.8 | 1.7 | 1.8 | 1.7 | 2.2 |
| Female, all fields | 6.0 | 9.5 | 7.0 | 8.9 | 8.2 | 8.2 | 7.5 | 7.8 | 8.3 |
| Physical sciences | 0.5 | 1.0 | 0.8 | 1.2 | 1.2 | 1.0 | 0.9 | 1.0 | 1.3 |
| Mathematics and statistics | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | s | 0.1 | 0.2 |
| Computer and information sciences | 0.0 | 0.0 | s | 0.1 | s | 0.1 | s | s | s |
| Life sciences | 4.3 | 6.1 | 4.8 | 5.6 | 5.2 | 5.8 | 5.0 | 5.2 | 5.1 |
| Psychology | 0.5 | 1.1 | 0.6 | 0.7 | 0.8 | 0.5 | 0.4 | 0.5 | 0.4 |
| Social sciences | 0.2 | 0.5 | 0.2 | 0.5 | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 |
| Engineering | 0.2 | 0.6 | 0.4 | 0.8 | 0.6 | 0.5 | 0.7 | 0.6 | 0.8 |
| Part-time positions ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |
| Both sexes, all fields | 13.3 | 15.7 | 15.6 | 17.0 | 18.5 | 19.8 | 20.5 | 19.3 | 18.3 |
| Physical sciences | 1.1 | 1.5 | 1.6 | 2.0 | 2.5 | 2.8 | 2.6 | 2.2 | 2.1 |
| Mathematics and statistics | 0.9 | 1.2 | 1.0 | 1.1 | 1.1 | 1.2 | 1.5 | 1.4 | 1.2 |
| Computer and information sciences | 0.2 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| Life sciences | 4.0 | 4.4 | 4.3 | 4.6 | 5.2 | 5.2 | 5.7 | 5.7 | 5.3 |
| Psychology | 3.2 | 3.6 | 3.7 | 3.8 | 4.2 | 4.1 | 3.6 | 3.2 | 3.4 |
| Social sciences | 3.1 | 3.7 | 4.0 | 4.0 | 4.2 | 4.4 | 5.4 | 4.6 | 4.5 |
| Engineering | 0.8 | 1.1 | 0.9 | 1.2 | 1.1 | 1.8 | 1.6 | 1.7 | 1.3 |
| Male, all fields | 6.1 | 7.6 | 7.0 | 7.6 | 8.0 | 9.5 | 9.7 | 8.8 | 8.4 |
| Physical sciences | 0.7 | 1.1 | 1.1 | 1.3 | 1.7 | 1.9 | 1.7 | 1.1 | 1.2 |
| Mathematics and statistics | 0.6 | 0.9 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 | 0.8 |
| Computer and information sciences | 0.2 | 0.1 | s | 0.2 | s | 0.2 | 0.2 | 0.2 | 0.3 |
| Life sciences | 1.3 | 1.5 | 1.4 | 1.8 | 1.6 | 1.6 | 1.6 | 1.9 | 1.8 |
| Psychology | 0.8 | 0.9 | 1.0 | 1.0 | 1.2 | 1.3 | 1.1 | 0.9 | 1.1 |
| Social sciences | 1.7 | 2.2 | 2.3 | 1.8 | 2.0 | 2.4 | 3.1 | 2.4 | 2.4 |
| Engineering | 0.7 | 1.0 | 0.6 | 0.8 | 0.6 | 1.3 | 1.2 | 1.2 | 0.9 |
| Female, all fields | 7.3 | 8.1 | 8.6 | 9.4 | 10.5 | 10.3 | 10.8 | 10.5 | 9.9 |
| Physical sciences | 0.4 | 0.5 | 0.5 | 0.7 | 0.8 | 1.0 | 0.8 | 1.1 | 0.9 |

## Table SURD-4

S\&E doctorate holders employed in academia, by type of position, sex, and degree field: 2003-21
(Thousands)

| Type of position, sex, and degree field | 2003 | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics and statistics | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.4 | 0.4 |
| Computer and information sciences | 0.1 | 0.0 | s | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 |
| Life sciences | 2.7 | 3.0 | 2.9 | 2.9 | 3.6 | 3.5 | 4.0 | 3.8 | 3.6 |
| Psychology | 2.4 | 2.8 | 2.7 | 2.8 | 3.0 | 2.8 | 2.5 | 2.3 | 2.4 |
| Social sciences | 1.4 | 1.5 | 1.7 | 2.2 | 2.2 | 2.0 | 2.3 | 2.3 | 2.1 |
| Engineering | 0.1 | 0.1 | 0.3 | 0.3 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 |

$s=$ suppressed for reasons of confidentiality and/or reliability.
${ }^{\text {a }}$ Full-time senior faculty include full professors and associate professors.
${ }^{\mathrm{b}}$ Full-time junior faculty include assistant professors.
${ }^{\text {c }}$ Other full-time positions include those such as research associates, adjunct positions, lecturers, administrative positions, and instructors.
${ }^{\text {d }}$ Part-time positions exclude those employed part time because they are students or retired.

## Note(s):

Detail may not add to total because of rounding. Academic employment is limited to U.S. doctorate holders employed at 2- or 4-year colleges or universities, medical schools, and university research institutes. Degree fields use the traditional field of study aggregations from 1973 to 2015; from 2017, fine degree fields are aggregated at broad levels of the National Center for Science and Engineering Statistics Taxonomy of Disciplines. Physical sciences include earth, atmospheric, and ocean sciences; life sciences include biological, agricultural, and environmental life and health sciences.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.
Science and Engineering Indicators

## Table SURD-5

S\&E doctorate holders employed in academia, by type of position, race or ethnicity, and degree field: 2006-21

| Type of position, race or ethnicity, and degree field | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All positions |  |  |  |  |  |  |  |  |
| All races or ethnicities, all fields | 272.8 | 276.5 | 294.8 | 309.0 | 329.3 | 326.6 | 350.4 | 347.2 |
| Physical sciences | 39.6 | 39.9 | 43.7 | 44.9 | 48.4 | 46.3 | 49.8 | 48.1 |
| Mathematics and statistics | 17.3 | 18.0 | 18.7 | 19.0 | 20.9 | 19.6 | 20.6 | 20.8 |
| Computer and information sciences | 5.8 | 6.9 | 7.3 | 8.4 | 9.1 | 8.8 | 10.7 | 11.8 |
| Life sciences | 95.5 | 94.2 | 102.0 | 109.8 | 112.7 | 113.1 | 119.8 | 119.6 |
| Psychology | 35.0 | 34.5 | 35.4 | 36.3 | 38.7 | 37.9 | 39.7 | 38.8 |
| Social sciences | 50.1 | 52.5 | 54.9 | 55.9 | 59.7 | 60.4 | 64.8 | 61.3 |
| Engineering | 29.6 | 30.4 | 32.8 | 34.7 | 39.7 | 40.5 | 45.0 | 46.8 |
| White, all fields | 212.2 | 211.8 | 219.7 | 225.8 | 237.0 | 229.9 | 243.5 | 236.9 |
| Physical sciences | 31.4 | 31.5 | 33.5 | 33.8 | 35.6 | 33.3 | 36.2 | 33.2 |
| Mathematics and statistics | 13.1 | 13.6 | 13.7 | 13.6 | 15.1 | 13.7 | 13.8 | 13.9 |
| Computer and information sciences | 3.7 | 4.0 | 4.1 | 4.8 | 5.4 | 5.3 | 6.2 | 6.5 |
| Life sciences | 74.2 | 72.5 | 76.9 | 81.1 | 81.6 | 80.3 | 83.6 | 82.4 |
| Psychology | 29.5 | 28.7 | 28.6 | 28.9 | 30.6 | 29.2 | 30.9 | 30.0 |
| Social sciences | 40.7 | 41.7 | 43.0 | 42.6 | 45.8 | 44.8 | 47.8 | 45.0 |
| Engineering | 19.5 | 19.7 | 20.0 | 21.1 | 22.9 | 23.3 | 25.1 | 26.0 |
| Asian or Pacific Islander, all fields | 37.4 | 39.7 | 46.9 | 52.1 | 59.0 | 61.6 | 70.0 | 71.6 |
| Physical sciences | 5.6 | 5.7 | 7.0 | 7.6 | 9.3 | 9.2 | 9.9 | 10.9 |
| Mathematics and statistics | 3.0 | 3.2 | 3.7 | 4.0 | 4.4 | 4.4 | 5.1 | 5.0 |
| Computer and information sciences | 1.7 | 2.5 | 2.7 | 3.0 | 3.0 | 2.8 | 3.8 | 4.3 |
| Life sciences | 14.0 | 13.9 | 16.2 | 18.4 | 20.6 | 21.6 | 24.0 | 24.5 |
| Psychology | 1.4 | 1.6 | 2.0 | 2.2 | 2.8 | 3.3 | 3.4 | 3.0 |
| Social sciences | 3.9 | 4.5 | 5.2 | 6.1 | 6.1 | 6.8 | 7.6 | 7.7 |
| Engineering | 7.8 | 8.2 | 10.1 | 10.7 | 12.9 | 13.6 | 16.1 | 16.2 |
| Underrepresented minority, all fields ${ }^{\text {a }}$ | 20.4 | 21.8 | 24.4 | 27.2 | 29.4 | 30.4 | 32.4 | 33.0 |
| Physical sciences | 2.2 | 2.3 | 2.7 | 3.0 | 2.9 | 3.2 | 3.3 | 3.2 |
| Mathematics and statistics | 1.0 | 1.1 | 1.2 | 1.4 | 1.4 | 1.4 | 1.5 | 1.7 |
| Computer and information sciences | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 |
| Life sciences | 6.4 | 6.6 | 7.6 | 8.7 | 9.4 | 9.8 | 10.5 | 10.7 |
| Psychology | 3.6 | 3.7 | 4.3 | 4.5 | 4.6 | 4.6 | 4.7 | 4.9 |
| Social sciences | 4.9 | 5.6 | 5.8 | 6.5 | 7.0 | 7.6 | 8.4 | 7.7 |
| Engineering | 2.0 | 2.1 | 2.4 | 2.6 | 3.6 | 3.3 | 3.5 | 3.9 |
| Full-time faculty ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |
| All races or ethnicities, all fields | 193.1 | 199.1 | 206.9 | 214.4 | 227.7 | 223.4 | 246.8 | 243.4 |
| Physical sciences | 26.9 | 27.5 | 29.3 | 29.5 | 31.1 | 29.3 | 33.0 | 31.3 |

Table SURD-5
S\&E doctorate holders employed in academia, by type of position, race or ethnicity, and degree field: 2006-21

| (Thousands) |
| :--- |
| Type of position, race or ethnicity, and degree field |
| Mathematics and statistics |
| Computer and information sciences |
| Life sciences |
| Psychology |

Table SURD-5
S\&E doctorate holders employed in academia, by type of position, race or ethnicity, and degree field: 2006-21

| Type of position, race or ethnicity, and degree field | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Psychology | 1.7 | 1.0 | 1.1 | 1.0 | 0.8 | 0.7 | 0.8 | 0.7 |
| Social sciences | 0.9 | 0.3 | 0.8 | 0.4 | 0.4 | 0.5 | 0.5 | 0.8 |
| Engineering | 3.0 | 2.1 | 3.1 | 2.4 | 2.2 | 2.6 | 2.3 | 2.9 |
| White, all fields | 13.4 | 10.3 | 12.5 | 10.6 | 10.1 | 9.3 | 8.5 | 9.4 |
| Physical sciences | 2.4 | 1.9 | 2.7 | 2.2 | 1.7 | 1.6 | 1.6 | 1.8 |
| Mathematics and statistics | 0.6 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| Computer and information sciences | s | s | 0.1 | s | 0.1 | 0.1 | 0.1 | 0.1 |
| Life sciences | 7.3 | 6.3 | 7.0 | 6.4 | 6.2 | 5.5 | 5.0 | 5.3 |
| Psychology | 1.3 | 0.8 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 |
| Social sciences | 0.6 | 0.2 | 0.6 | 0.2 | 0.2 | 0.3 | 0.3 | 0.5 |
| Engineering | 1.1 | 0.7 | 1.0 | 0.6 | 1.1 | 1.1 | 0.6 | 0.9 |
| Asian or Pacific Islander, all fields | 8.1 | 6.1 | 8.3 | 7.4 | 7.0 | 7.2 | 8.1 | 8.1 |
| Physical sciences | 1.3 | 1.2 | 1.7 | 1.4 | 1.3 | 1.6 | 1.7 | 2.0 |
| Mathematics and statistics | 0.3 | 0.1 | 0.3 | 0.1 | 0.2 | 0.1 | 0.4 | 0.3 |
| Computer and information sciences | s | 0.2 | 0.2 | s | 0.2 | s | s | 0.0 |
| Life sciences | 4.4 | 3.0 | 4.0 | 4.0 | 4.1 | 3.8 | 4.2 | 3.7 |
| Psychology | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 |
| Social sciences | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | s | 0.1 |
| Engineering | 1.7 | 1.3 | 1.8 | 1.5 | 1.0 | 1.4 | 1.5 | 1.7 |
| Underrepresented minority, all fields ${ }^{\text {a }}$ | 1.7 | 1.3 | 1.6 | 2.1 | 1.7 | 1.5 | 1.6 | 1.8 |
| Physical sciences | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Mathematics and statistics | 0.1 | s | s | 0.1 | s | s | s | s |
| Computer and information sciences | s | s | s | s | s | s | s | s |
| Life sciences | 1.0 | 0.8 | 0.9 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 |
| Psychology | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Social sciences | 0.1 | 0.0 | 0.1 | s | s | 0.1 | 0.1 | 0.1 |
| Engineering | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 |
| Other positions ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |
| All races or ethnicities, all fields | 56.4 | 59.5 | 65.1 | 74.4 | 82.4 | 84.8 | 85.0 | 84.1 |
| Physical sciences | 8.8 | 9.1 | 9.8 | 11.4 | 14.0 | 13.6 | 13.3 | 12.7 |
| Mathematics and statistics | 2.4 | 2.7 | 2.9 | 3.1 | 3.6 | 3.7 | 3.6 | 3.8 |
| Computer and information sciences | 0.8 | 1.0 | 1.3 | 1.8 | 1.7 | 1.6 | 1.9 | 2.0 |
| Life sciences | 19.9 | 20.5 | 23.1 | 27.3 | 30.2 | 32.2 | 32.1 | 32.5 |
| Psychology | 10.1 | 10.5 | 10.9 | 11.2 | 11.9 | 11.0 | 11.0 | 10.5 |
| Social sciences | 9.9 | 10.2 | 10.9 | 12.0 | 12.6 | 13.5 | 13.8 | 14.2 |
| Engineering | 4.5 | 5.6 | 6.3 | 7.3 | 8.3 | 9.2 | 9.3 | 8.6 |

## Table SURD-5

S\&E doctorate holders employed in academia, by type of position, race or ethnicity, and degree field: 2006-21
(Thousands)

| Type of position, race or ethnicity, and degree field | 2006 | 2008 | 2010 | 2013 | 2015 | 2017 | 2019 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White, all fields | 43.5 | 45.0 | 48.5 | 53.7 | 58.0 | 57.7 | 57.5 | 57.1 |
| Physical sciences | 6.4 | 7.2 | 7.4 | 8.5 | 9.7 | 9.4 | 9.3 | 8.5 |
| Mathematics and statistics | 1.8 | 1.9 | 2.0 | 2.1 | 2.6 | 2.3 | 2.4 | 2.6 |
| Computer and information sciences | 0.8 | 0.8 | 0.8 | 1.3 | 1.0 | 1.0 | 1.0 | 1.3 |
| Life sciences | 15.4 | 15.2 | 17.3 | 20.0 | 20.9 | 21.4 | 21.4 | 21.8 |
| Psychology | 8.3 | 8.4 | 8.7 | 8.5 | 9.3 | 8.3 | 8.1 | 7.7 |
| Social sciences | 7.8 | 8.0 | 8.6 | 9.0 | 9.4 | 9.9 | 9.9 | 10.3 |
| Engineering | 3.0 | 3.6 | 4.0 | 4.7 | 5.1 | 5.5 | 5.4 | 5.0 |
| Asian or Pacific Islander, all fields | 7.5 | 8.6 | 10.1 | 12.3 | 15.2 | 16.9 | 17.1 | 16.5 |
| Physical sciences | 1.6 | 1.4 | 1.5 | 2.1 | 3.4 | 3.1 | 2.8 | 2.9 |
| Mathematics and statistics | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 0.9 | 0.8 | 0.6 |
| Computer and information sciences | 0.2 | 0.2 | 0.3 | 0.7 | 0.4 | 0.4 | 0.7 | 0.5 |
| Life sciences | 3.1 | 3.5 | 3.8 | 4.8 | 6.5 | 7.3 | 7.2 | 7.3 |
| Psychology | 0.4 | 0.5 | 0.6 | 0.6 | 0.8 | 0.9 | 1.0 | 0.9 |
| Social sciences | 0.8 | 0.8 | 1.0 | 1.2 | 1.2 | 1.4 | 1.5 | 1.8 |
| Engineering | 1.1 | 1.5 | 1.9 | 2.0 | 2.4 | 2.8 | 3.0 | 2.5 |
| Underrepresented minority, all fields ${ }^{\text {a }}$ | 4.8 | 5.3 | 5.6 | 7.2 | 8.1 | 8.9 | 9.0 | 8.6 |
| Physical sciences | 0.5 | 0.4 | 0.5 | 0.7 | 0.8 | 0.9 | 0.9 | 0.9 |
| Mathematics and statistics | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | 0.5 |
| Computer and information sciences | 0.0 | s | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 |
| Life sciences | 1.4 | 1.5 | 1.7 | 2.2 | 2.6 | 3.0 | 3.1 | 2.9 |
| Psychology | 1.4 | 1.4 | 1.6 | 1.8 | 1.7 | 1.6 | 1.5 | 1.6 |
| Social sciences | 1.2 | 1.3 | 1.0 | 1.6 | 1.9 | 1.9 | 2.2 | 1.8 |
| Engineering | 0.3 | 0.4 | 0.5 | 0.7 | 0.7 | 0.8 | 0.7 | 0.8 |

$s=$ suppressed for reasons of confidentiality and/or reliability.
 shown separately.
${ }^{\mathrm{b}}$ Full-time faculty include full professors, associate professors, and assistant professors.
${ }^{\text {c }}$ Other positions include full-time positions such as research associates, adjunct positions, lecturers, administrative positions, instructors, and all kinds of part-time positions. Part-time positions exclude those employed part time because they are students or retired.

## Note(s):

Academic employment is limited to U.S. doctorate holders employed at 2- or 4-year colleges or universities, medical schools, and university research institutes. Degree fields use the traditional field of study aggregations from 1973 to 2015; from 2017, fine degree fields are aggregated at broad levels of the National Center for Science and Engineering Statistics Taxonomy of Disciplines. Physical sciences include earth, atmospheric, and ocean sciences; life sciences include biological, agricultural, and environmental life and health sciences. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.
Science and Engineering Indicators

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
(Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| All recipients ${ }^{\text {b }}$ (number) | 124,948 | 103,947 | 43,810 | 18,463 | 8,674 | 33,000 | 21,001 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 14.24 | 15.69 | 13.72 | 4.25 | 9.40 | 26.36 | 7.04 |
| Teaching assistantship | 17.18 | 19.15 | 11.53 | 21.59 | 35.21 | 23.68 | 7.43 |
| Research assistantship, traineeship, or internship | 30.79 | 28.09 | 30.93 | 44.87 | 25.51 | 15.60 | 44.15 |
| Fellowship, scholarship, or dissertation grant | 26.75 | 26.51 | 33.33 | 21.76 | 18.00 | 22.36 | 27.96 |
| Other ${ }^{\text {c }}$ | 11.05 | 10.57 | 10.50 | 7.54 | 11.89 | 11.99 | 13.42 |
| Hispanic or Latino ${ }^{\text {d }}$ (number) | 9,808 | 8,323 | 3,492 | 1,212 | 483 | 3,136 | 1,485 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 15.27 | 16.54 | 11.94 | 4.54 | 8.90 | 27.49 | 8.15 |
| Teaching assistantship | 14.61 | 15.92 | 9.14 | 19.39 | 32.92 | 19.52 | 7.27 |
| Research assistantship, traineeship, or internship | 22.41 | 20.56 | 24.48 | 31.85 | 21.33 | 11.70 | 32.79 |
| Fellowship, scholarship, or dissertation grant | 36.28 | 35.70 | 44.87 | 35.48 | 25.47 | 27.14 | 39.53 |
| Other ${ }^{\text {c }}$ | 11.43 | 11.28 | 9.56 | 8.75 | 11.39 | 14.16 | 12.26 |
| Not Hispanic or Latino |  |  |  |  |  |  |  |
| American Indian or Alaska Native (number) | 339 | 301 | 121 | 36 | 8 | 136 | 38 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 22.42 | 23.92 | 27.27 | D | D | 26.47 | D |
| Teaching assistantship | 9.73 | 10.63 | 4.96 | 25.00 | D | 11.03 | D |
| Research assistantship, traineeship, or internship | 14.45 | 13.62 | 16.53 | 22.22 | D | 9.56 | 21.05 |
| Fellowship, scholarship, or dissertation grant | 34.22 | 33.22 | 33.88 | 33.33 | D | 33.82 | 42.11 |
| Other ${ }^{\text {c }}$ | 19.17 | 18.60 | 17.36 | D | D | 19.12 | 23.68 |
| Asian (number) | 13,625 | 10,204 | 4,923 | 1,670 | 1,275 | 2,336 | 3,421 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 9.08 | 10.11 | 9.83 | 2.63 | 7.61 | 17.42 | 5.99 |
| Teaching assistantship | 15.64 | 17.97 | 8.98 | 22.63 | 30.90 | 26.54 | 8.68 |
| Research assistantship, traineeship, or internship | 35.52 | 30.73 | 33.01 | 45.99 | 31.14 | 14.81 | 49.78 |
| Fellowship, scholarship, or dissertation grant | 29.28 | 30.98 | 38.09 | 20.36 | 18.90 | 30.18 | 24.23 |
| Other ${ }^{\text {c }}$ | 10.48 | 10.20 | 10.10 | 8.38 | 11.45 | 11.04 | 11.31 |
| Black or African American (number) | 7,107 | 6,259 | 2,779 | 449 | 310 | 2,721 | 848 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 30.77 | 33.33 | 28.93 | 5.79 | 17.74 | 44.14 | 11.91 |
| Teaching assistantship | 10.89 | 11.20 | 6.59 | 25.84 | 24.19 | 12.02 | 8.61 |
| Research assistantship, traineeship, or internship | 16.53 | 15.15 | 19.79 | 24.05 | 15.81 | 8.86 | 26.77 |

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
(Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| Fellowship, scholarship, or dissertation grant | 28.77 | 27.54 | 32.89 | 34.52 | 29.03 | 20.76 | 37.85 |
| Other ${ }^{\text {c }}$ | 13.03 | 12.78 | 11.80 | 9.80 | 13.23 | 14.22 | 14.86 |
| White (number) | 86,498 | 72,556 | 30,011 | 14,059 | 5,960 | 22,526 | 13,942 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 13.79 | 15.07 | 13.35 | 4.37 | 9.51 | 25.52 | 7.13 |
| Teaching assistantship | 18.62 | 20.78 | 12.99 | 21.79 | 37.85 | 26.01 | 7.37 |
| Research assistantship, traineeship, or internship | 33.03 | 30.49 | 33.04 | 47.40 | 26.14 | 17.67 | 46.29 |
| Fellowship, scholarship, or dissertation grant | 25.34 | 24.95 | 31.48 | 20.48 | 16.76 | 21.22 | 27.34 |
| Other ${ }^{\text {c }}$ | 9.22 | 8.71 | 9.15 | 5.96 | 9.73 | 9.58 | 11.87 |
| More than one race (number) | 4,169 | 3,550 | 1,445 | 626 | 317 | 1,162 | 619 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 14.03 | 15.72 | 11.76 | 5.11 | 10.09 | 27.88 | 4.36 |
| Teaching assistantship | 17.58 | 19.55 | 10.80 | 22.84 | 37.22 | 23.84 | 6.30 |
| Research assistantship, traineeship, or internship | 28.90 | 26.34 | 31.07 | 40.89 | 23.97 | 13.25 | 43.62 |
| Fellowship, scholarship, or dissertation grant | 33.61 | 32.96 | 41.11 | 26.84 | 22.40 | 29.00 | 37.32 |
| Other ${ }^{\text {c }}$ | 5.88 | 5.44 | 5.26 | 4.31 | 6.31 | 6.02 | 8.40 |
| Other race or race not reported (number) | 1,422 | 1,143 | 450 | 179 | 139 | 375 | 279 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 12.24 | 13.65 | 12.00 | D | D | 21.87 | D |
| Teaching assistantship | 11.88 | 14.26 | 6.67 | 15.08 | D | 18.93 |  |
| Research assistantship, traineeship, or internship | 20.11 | 17.67 | 20.67 | 35.75 | D | 7.20 | 30.11 |
| Fellowship, scholarship, or dissertation grant | 19.69 | 20.38 | 26.00 | 12.29 | D | 18.40 | 16.85 |
| Other ${ }^{\text {c }}$ | 36.08 | 34.03 | 34.67 | D | D | 33.60 | 44.44 |
| Ethnicity not reported (number) | 1,980 | 1,611 | 589 | 232 | 182 | 608 | 369 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 5.10 | 5.71 | 6.96 | 1.29 | 4.40 | 6.58 | 2.44 |
| Teaching assistantship | 4.49 | 4.90 | 2.89 | 6.03 | 8.24 | 5.43 | 2.71 |
| Research assistantship, traineeship, or internship | 7.12 | 6.39 | 6.79 | 12.93 | 6.59 | 3.45 | 10.30 |
| Fellowship, scholarship, or dissertation grant | 6.16 | 5.77 | 7.81 | 4.74 | 6.04 | 4.11 | 7.86 |
| Other ${ }^{\text {c }}$ | 77.12 | 77.22 | 75.55 | 75.00 | 74.73 | 80.43 | 76.69 |
| Female (number) | 60,066 | 54,394 | 25,021 | 6,511 | 2,275 | 20,587 | 5,672 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 17.77 | 19.04 | 16.19 | 4.10 | 9.93 | 28.23 | 5.66 |
| Teaching assistantship | 16.45 | 17.37 | 10.72 | 21.86 | 35.16 | 22.05 |  |

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
(Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| Research assistantship, traineeship, or internship | 26.72 | 25.41 | 29.14 | 40.42 | 22.24 | 16.48 | 39.26 |
| Fellowship, scholarship, or dissertation grant | 28.72 | 27.89 | 33.57 | 27.68 | 22.42 | 21.67 | 36.58 |
| Other ${ }^{\text {c }}$ | 10.35 | 10.30 | 10.38 | 5.94 | 10.24 | 11.58 | 10.84 |
| Hispanic or Latinod (number) | 5,124 | 4,685 | 2,042 | 487 | 112 | 2,044 | 439 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 18.74 | 19.62 | 14.20 | 4.72 | 6.25 | 29.31 | 9.34 |
| Teaching assistantship | 13.51 | 14.15 | 8.42 | 17.86 | 28.57 | 18.20 | 6.61 |
| Research assistantship, traineeship, or internship | 19.18 | 18.59 | 23.16 | 29.16 | 21.43 | 11.35 | 25.51 |
| Fellowship, scholarship, or dissertation grant | 36.90 | 35.94 | 44.91 | 40.45 | 30.36 | 26.22 | 47.15 |
| Other ${ }^{\text {c }}$ | 11.67 | 11.70 | 9.30 | 7.80 | 13.39 | 14.92 | 11.39 |
| Not Hispanic or Latino |  |  |  |  |  |  |  |
| American Indian or Alaska Native (number) | 188 | 176 | 73 | 14 | D | 86 | D |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 23.40 | 24.43 | 27.40 | D | D | 25.58 |  |
| Teaching assistantship | 6.91 | 7.39 | D | D | D | 9.30 | D |
| Research assistantship, traineeship, or internship | 11.70 | 11.93 | 17.81 | D | D | 6.98 | D |
| Fellowship, scholarship, or dissertation grant | 38.83 | 38.07 | 32.88 | D | D | 38.37 | D |
| Other ${ }^{\text {c }}$ | 19.15 | 18.18 | D | D | D | 19.77 | D |
| Asian (number) | 6,733 | 5,617 | 2,906 | 665 | 437 | 1,609 | 1,116 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 10.55 | 11.73 | 10.56 | 3.16 | 8.01 | 18.40 | 4.57 |
| Teaching assistantship | 15.88 | 17.27 | 9.36 | 20.60 | 35.70 | 25.17 | 8.87 |
| Research assistantship, traineeship, or internship | 32.14 | 29.02 | 33.28 | 42.56 | 28.15 | 15.97 | 47.85 |
| Fellowship, scholarship, or dissertation grant | 31.92 | 32.17 | 37.27 | 27.07 | 17.85 | 28.96 | 30.65 |
| Other ${ }^{\text {c }}$ | 9.52 | 9.81 | 9.53 | 6.62 | 10.30 | 11.50 | 8.06 |
| Black or African American (number) | 4,358 | 4,078 | 1,899 | 184 | 116 | 1,879 | 280 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 34.17 | 36.02 | 30.54 | 5.98 | 20.69 | 45.45 | 7.14 |
| Teaching assistantship | 9.27 | 9.49 | 5.90 | 21.74 | 25.00 | 10.96 | 6.07 |
| Research assistantship, traineeship, or internship | 15.14 | 14.30 | 18.59 | 20.65 | 13.79 | 9.37 | 27.50 |
| Fellowship, scholarship, or dissertation grant | 29.21 | 28.05 | 33.02 | 44.02 | 33.62 | 21.13 | 46.07 |
| Other ${ }^{\text {c }}$ | 12.21 | 12.14 | 11.95 | 7.61 | 6.90 | 13.09 | 13.21 |
| White (number) | 40,030 | 36,536 | 16,734 | 4,766 | 1,445 | 13,591 | 3,494 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| Personal or family funds | 17.34 | 18.46 | 16.00 | 4.01 | 10.52 | 27.39 | 5.70 |
| Teaching assistantship | 18.07 | 19.06 | 12.04 | 22.89 | 37.09 | 24.43 | 7.81 |
| Research assistantship, traineeship, or internship | 28.88 | 27.77 | 30.98 | 43.05 | 22.21 | 19.03 | 40.53 |
| Fellowship, scholarship, or dissertation grant | 27.25 | 26.34 | 31.82 | 25.74 | 22.35 | 20.21 | 36.81 |
| Other ${ }^{\text {c }}$ | 8.45 | 8.39 | 9.15 | 4.30 | 7.82 | 8.94 | 9.16 |
| More than one race (number) | 2,172 | 1,994 | 835 | 266 | 91 | 802 | 178 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 17.86 | 19.21 | 13.89 | 6.02 | 5.49 | 30.67 | 2.81 |
| Teaching assistantship | 16.62 | 17.45 | 10.66 | 19.92 | 40.66 | 21.07 | 7.30 |
| Research assistantship, traineeship, or internship | 24.36 | 23.27 | 29.46 | 34.96 | 19.78 | 13.34 | 36.52 |
| Fellowship, scholarship, or dissertation grant | 35.91 | 35.01 | 40.84 | 36.84 | 26.37 | 29.30 | 46.07 |
| Other ${ }^{\text {c }}$ | 5.25 | 5.07 | 5.15 | 2.26 | 7.69 | 5.61 | 7.30 |
| Other race or race not reported (number) | 596 | 527 | 222 | 54 | D | 223 | D |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 15.10 | 16.70 | 16.67 | D | D | 21.52 | D |
| Teaching assistantship | 12.42 | 13.66 | D | D | D | 19.73 | D |
| Research assistantship, traineeship, or internship | 14.93 | 13.85 | 16.67 | D | D | 7.17 | D |
| Fellowship, scholarship, or dissertation grant | 20.81 | 20.68 | 26.58 | D | D | 16.59 | D |
| Other ${ }^{\text {d }}$ | 36.74 | 35.10 | D | D | D | 34.98 | D |
| Ethnicity not reported (number) | 865 | 781 | 310 | 75 | 43 | 353 | 84 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 6.01 | 6.40 | 7.10 | 2.67 | 4.65 | 6.80 | 2.38 |
| Teaching assistantship | 3.70 | 3.97 | 2.26 | 4.00 | 11.63 | 4.53 | 1.19 |
| Research assistantship, traineeship, or internship | 4.62 | 4.35 | 5.48 | 6.67 | 2.33 | 3.12 | 7.14 |
| Fellowship, scholarship, or dissertation grant | 5.78 | 5.38 | 7.74 | 5.33 | 9.30 | 2.83 | 9.52 |
| Other ${ }^{\text {c }}$ | 79.88 | 79.90 | 77.42 | 81.33 | 72.09 | 82.72 | 79.76 |
| Male (number) | 64,878 | 49,549 | 18,787 | 11,951 | 6,399 | 12,412 | 15,329 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 10.96 | 12.02 | 10.43 | 4.33 | 9.20 | 23.28 | 7.55 |
| Teaching assistantship | 17.86 | 21.11 | 12.60 | 21.44 | 35.22 | 26.39 | 7.35 |
| Research assistantship, traineeship, or internship | 34.55 | 31.03 | 33.31 | 47.29 | 26.68 | 14.16 | 45.95 |
| Fellowship, scholarship, or dissertation grant | 24.94 | 24.99 | 33.00 | 18.53 | 16.42 | 23.49 | 24.77 |
| Other ${ }^{\text {c }}$ | 11.69 | 10.86 | 10.66 | 8.41 | 12.47 | 12.69 | 14.37 |
| Hispanic or Latino ${ }^{\text {d }}$ (number) | 4,683 | 3,637 | 1,449 | 725 | 371 | 1,092 | 1,046 |

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
(Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 11.49 | 12.59 | 8.76 | 4.41 | 9.70 | 24.08 | 7.65 |
| Teaching assistantship | 15.82 | 18.20 | 10.14 | 20.41 | 34.23 | 21.98 | 7.55 |
| Research assistantship, traineeship, or internship | 25.94 | 23.10 | 26.36 | 33.66 | 21.29 | 12.36 | 35.85 |
| Fellowship, scholarship, or dissertation grant | 35.60 | 35.39 | 44.86 | 32.14 | 23.99 | 28.85 | 36.33 |
| Other ${ }^{\text {c }}$ | 11.15 | 10.72 | 9.87 | 9.38 | 10.78 | 12.73 | 12.62 |
| Not Hispanic or Latino |  |  |  |  |  |  |  |
| American Indian or Alaska Native (number) | 151 | 125 | 48 | 22 | D | 50 | D |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 21.19 | 23.20 | 27.08 | D | D | 28.00 | D |
| Teaching assistantship | 13.25 | 15.20 | D | D | D | 14.00 | D |
| Research assistantship, traineeship, or internship | 17.88 | 16.00 | 14.58 | D | D | 14.00 | D |
| Fellowship, scholarship, or dissertation grant | 28.48 | 26.40 | 35.42 | D | D | 26.00 | D |
| Other ${ }^{\text {c }}$ | 19.21 | 19.20 | D | D | D | 18.00 | D |
| Asian (number) | 6,891 | 4,586 | 2,016 | 1,005 | 838 | 727 | 2,305 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 7.65 | 8.13 | 8.78 | 2.29 | 7.40 | 15.27 | 6.68 |
| Teaching assistantship | 15.41 | 18.84 | 8.43 | 23.98 | 28.40 | 29.57 | 8.59 |
| Research assistantship, traineeship, or internship | 38.82 | 32.84 | 32.64 | 48.26 | 32.70 | 12.24 | 50.72 |
| Fellowship, scholarship, or dissertation grant | 26.72 | 29.52 | 39.29 | 15.92 | 19.45 | 32.87 | 21.13 |
| Other ${ }^{\text {c }}$ | 11.41 | 10.66 | 10.86 | 9.55 | 12.05 | 10.04 | 12.89 |
| Black or African American (number) | 2,749 | 2,181 | 880 | 265 | 194 | 842 | 568 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 25.39 | 28.29 | 25.45 | 5.66 | 15.98 | 41.21 | 14.26 |
| Teaching assistantship | 13.46 | 14.40 | 8.07 | 28.68 | 23.71 | 14.37 | 9.86 |
| Research assistantship, traineeship, or internship | 18.73 | 16.74 | 22.39 | 26.42 | 17.01 | 7.72 | 26.41 |
| Fellowship, scholarship, or dissertation grant | 28.08 | 26.59 | 32.61 | 27.92 | 26.29 | 19.95 | 33.80 |
| Other ${ }^{\text {c }}$ | 14.33 | 13.98 | 11.48 | 11.32 | 17.01 | 16.75 | 15.67 |
| White (number) | 46,466 | 36,018 | 13,277 | 9,292 | 4,515 | 8,934 | 10,448 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 10.73 | 11.64 | 10.00 | 4.55 | 9.19 | 22.68 | 7.61 |
| Teaching assistantship | 19.08 | 22.53 | 14.17 | 21.22 | 38.10 | 28.43 | 7.22 |
| Research assistantship, traineeship, or internship | 36.61 | 33.24 | 35.64 | 49.63 | 27.40 | 15.59 | 48.22 |
| Fellowship, scholarship, or dissertation grant | 23.69 | 23.55 | 31.04 | 17.78 | 14.97 | 22.74 | 24.18 |

## Table SURD-6

Primary source of support for U.S. citizen and permanent resident S\&E doctorate recipients, by race, ethnicity, sex, and historical broad field: 2017-21
(Percent distribution and number)

| Primary source of support, race, ethnicity, and sex | All S\&E | Science |  |  |  |  | Engineering |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All science | Life sciences ${ }^{\text {a }}$ | Physical sciences and earth sciences | Mathematics and computer sciences | Psychology and social sciences |  |
| Other ${ }^{\text {c }}$ | 9.88 | 9.04 | 9.14 | 6.81 | 10.34 | 10.56 | 12.78 |
| More than one race (number) | 1,997 | 1,556 | 610 | 360 | 226 | 360 | 441 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 9.86 | 11.25 | 8.85 | 4.44 | 11.95 | 21.67 | 4.99 |
| Teaching assistantship | 18.63 | 22.24 | 10.98 | 25.00 | 35.84 | 30.00 | 5.90 |
| Research assistantship, traineeship, or internship | 33.85 | 30.27 | 33.28 | 45.28 | 25.66 | 13.06 | 46.49 |
| Fellowship, scholarship, or dissertation grant | 31.10 | 30.33 | 41.48 | 19.44 | 20.80 | 28.33 | 33.79 |
| Other ${ }^{\text {c }}$ | 6.56 | 5.91 | 5.41 | 5.83 | 5.75 | 6.94 | 8.84 |
| Other race or race not reported (number) | 826 | 616 | 228 | 125 | D | 152 | D |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 10.17 | 11.04 | 7.46 | D | D | 22.37 | D |
| Teaching assistantship | 11.50 | 14.77 | D | D | D | 17.76 | D |
| Research assistantship, traineeship, or internship | 23.85 | 20.94 | 24.56 | D | D | 7.24 | D |
| Fellowship, scholarship, or dissertation grant | 18.89 | 20.13 | 25.44 | D | D | 21.05 | D |
| Other ${ }^{\text {c }}$ | 35.59 | 33.12 | D | D | D | 31.58 | D |
| Ethnicity not reported (number) | 1,115 | 830 | 279 | 157 | 139 | 255 | 285 |
| All sources | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Personal or family funds | 4.39 | 5.06 | 6.81 | 0.64 | 4.32 | 6.27 | 2.46 |
| Teaching assistantship | 5.11 | 5.78 | 3.58 | 7.01 | 7.19 | 6.67 | 3.16 |
| Research assistantship, traineeship, or internship | 9.06 | 8.31 | 8.24 | 15.92 | 7.91 | 3.92 | 11.23 |
| Fellowship, scholarship, or dissertation grant | 6.46 | 6.14 | 7.89 | 4.46 | 5.04 | 5.88 | 7.37 |
| Other ${ }^{\text {c }}$ | 74.98 | 74.70 | 73.48 | 71.97 | 75.54 | 77.25 | 75.79 |

## = suppressed to avoid disclosure of confidential information.

Life sciences include agricultural sciences and natural resources, biological and biomedical sciences, and health sciences
${ }^{\mathrm{b}}$ Total may include doctorate recipients who did not report sex. As a result, detail may not sum to total.
C Other includes foreign or unknown source of support and employer reimbursement or assistance.
${ }^{d}$ Hispanic or Latino may be any race; race categories exclude Hispanic origin.
Note(s):



## Source(s): National Center for Science and Engineering Statistics, special tabulations (2021) of the 2021 Survey of Earned Doctorates <br> Science and Engineering Indicators

