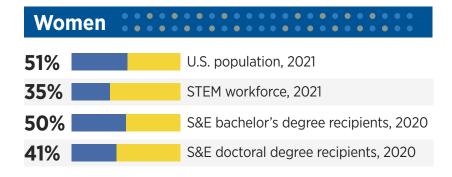
## **Diversity and STEM**

Women, Minorities, and Persons with Disabilities

2023

Diversity and STEM: Women, Minorities, and Persons with Disabilities 2023 is the federal government's most comprehensive collection of data on diversity trends in science, technology, engineering, and mathematics (STEM). This document presents key findings from *Diversity and STEM* on STEM employment and science and engineering (S&E) education in the United States.

The report in its entirety is available at <a href="https://ncses.nsf.gov/wmpd">https://ncses.nsf.gov/wmpd</a>.





31%	U.S. population, 2021
24%	STEM workforce, 2021
26%	S&E bachelor's degree recipients, 2020
16%	S&E doctoral degree recipients, 2020

#### Persons with disabilities



Sources: Census Bureau, Current Population Survey, Annual Social and Economic Supplement, 2021; National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2020; and National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2021.

# STEM in the United States

- Nearly a quarter (24%) of the U.S. workforce—34.9 million people ages 18 to 74—was employed in STEM occupations in 2021.
- The STEM workforce grew by 20% between 2011 and 2021.
- STEM workers have higher median earnings and lower unemployment rates than non-STEM workers.
- The number of S&E degrees awarded is growing over time, as is the number of students enrolled in S&E graduate programs.





#### Diversity and the STEM workforce :::

While men and Whites make up the largest share, the STEM workforce has been gradually diversifying, with increasing representation of women and underrepresented minorities.





Fewer women than men work in STEM occupations, but their employment in these jobs grew at a faster rate. Between 2011 and 2021, the number of women in the STEM workforce increased 31%, relative to a 15% increase in the number of men.



Underrepresented minorities made up nearly a quarter (24%) of the STEM workforce in 2021, up from 18% in 2011.



Among workers with at least one disability, 21% worked in STEM occupations in 2021, and 3% of the STEM workforce were persons with disabilities.



**Underrepresented minorities:** Persons from racial or ethnic groups whose representation in STEM employment and S&E education is smaller than their representation in the U.S. population. This includes Hispanics or Latinos, Blacks or African Americans, and American Indians or Alaska Natives.

#### Types of STEM work

The STEM workforce is made up of individuals at all education levels who work in S&E, S&E-related, and middle-skill occupations.



In 2021, **38%** of the STEM workforce worked in middle-skill occupations, **37%** in S&E-related occupations, and **25%** in S&E occupations.



Collectively, Hispanic, Black, and American Indian or Alaska Native STEM workers represented about **16%** of S&E occupations, **20%** of S&E-related occupations, and **33%** of middle-skill occupations in 2021.



Women dominated S&E-related occupations: nearly two-thirds (65%) of workers in S&E-related occupations in 2021 were women, accounting for 68% of women in STEM.



Nearly two-thirds (63%) of Hispanics with STEM jobs worked in middle-skill occupations in 2021, and Hispanics made up 24% of all U.S. middle-skill workers.



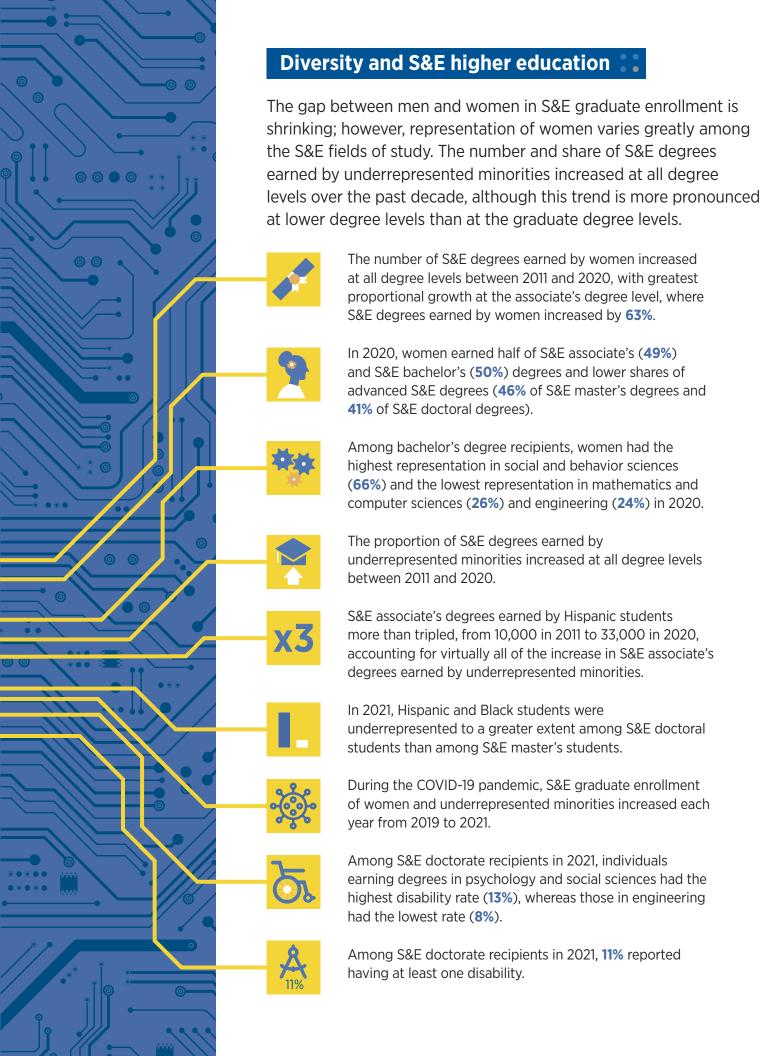




**S&E occupations:** Typically require a bachelor's degree for entry and employ workers in five broad occupation categories—computer and mathematical scientists; biological, agricultural, and environmental life scientists; physical scientists; social scientists; and engineers.

**S&E-related occupations:** Require STEM skills and expertise but do not fall into the five primary S&E occupational categories. They primarily include health-related occupations, S&E managers, S&E precollege teachers, and technologists and technicians.

**Middle-skill occupations:** Require significant STEM skills and expertise but do not typically require a bachelor's degree. These positions are primarily in the areas of construction; installation, maintenance, and repair; and production.



### 

Every 2 years, the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation (NSF) publishes *Diversity and STEM* to assess the current standing of women, minorities, and persons with disabilities in STEM employment and S&E education. The analyses presented are relevant to policymakers, program managers, and researchers interested in diversity and the representation of these groups in the U.S. science and engineering enterprise. NSF reporting on this topic is mandated by the Science and Engineering Equal Opportunities Act (Public Law 96-516).

#### **Data sources**

*Diversity and STEM* highlights key statistics drawn from surveys conducted by NCSES, the Census Bureau, and the National Center for Education Statistics. For more information on these data sources, see <a href="https://ncses.nsf.gov/pubs/nsf23315/technical-notes">https://ncses.nsf.gov/pubs/nsf23315/technical-notes</a>.





