



# Advancing American Research and Innovation

## PRINCIPLES

- ▶ For the United States to remain at the forefront of scientific research and innovation, the nation must continue to make robust investments in the fundamental research conducted at the nation's colleges and universities.
- ▶ It is important to recruit, educate, and support the advancement of all graduate students, in all scientific disciplines.
- ▶ When conducting fundamental scientific research, there must be a culture of research integrity in scholarship and teaching, including research ethics and responsible conduct of research.

## PRIORITIES

- ▶ There must be robust and sustainable federal investment in the fundamental scientific research funded by the U.S. government, through federal research agencies.
- ▶ Strengthen future generations of scientists through post-doctoral traineeships, fellowships, and career development opportunities provided by federal research agencies.
- ▶ Encourage collaborations between private sector and non-profit employers with universities to support the education and training of graduate students.
- ▶ Build a diverse U.S. research pipeline, including faculty and students, by reducing barriers for underrepresented minorities to pursue STEM graduate degrees.
- ▶ Provide graduate students with mentorship opportunities as a part of their education.
- ▶ Support safe, respectful, and inclusive research environments by addressing sexual harassment, racism, incivility, and other harmful behaviors.

## RATIONALE

- ▶ Research and scientific inquiry are cornerstones of graduate education.
- ▶ Federal policies should bolster the ability of the research pipeline to investigate, evaluate, and translate findings, as well as promote the safety, efficacy, and transparency of research and data sharing.
- ▶ The CHIPS and Science Act is essential to the advancement of America's research and innovation enterprise. The federal government should continue to invest in programs that support the current and future STEM workforce, STEM graduate education programs, and programs that support the recruitment, retention, and advancement of women, minorities, and students underrepresented in the STEM disciplines and careers.