

## Advancing Research and Innovation



**R**esearch and scientific inquiry are cornerstones of graduate education. The application of resulting discoveries drives advancements across multiple industries and improves the daily lives of the American people. Federal investments in agencies that support basic science research, as well as timely breakthroughs that are responsive to national need, ought to be strengthened.

Moreover, 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. In addition, policies should support programmatic activities that provide U.S. domestic graduate students opportunities to participate and contribute to international research.

### Recommendations

- **Increase federal investments that support graduate research through: United States Department of Agriculture, National Science Foundation, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, Department of Defense, Department of Energy, Environmental Protection Agency, National Endowment for the Humanities, National Institutes of Health, and others.**
- **Strengthen future generations of scientists through postdoctoral traineeships, fellowships, and career development through federal agencies.**
- **Improve the evaluation of program outcomes of U.S. graduate student participation in international research experiences.**
- **Encourage collaborations between private sector and non-profit employers with universities to support graduate students and the impact of their work.**
- **Promote safety, efficacy, and transparency of research and data sharing.**

