



July 30, 2021

The Honorable Rosa DeLauro
Chair
House Committee on Appropriations
2413 Rayburn House Office Building
Washington, D.C. 20515

The Honorable Matt Cartwright
Chairman
Subcommittee on Commerce, Justice, Science
& Related Agencies
House Committee on Appropriations
2102 Rayburn House Office Building
Washington, D.C. 20515

The Honorable Marcy Kaptur
Chairwoman
Subcommittee on Energy & Water Development
House Committee on Appropriations
2186 Rayburn House Office Building
Washington, D.C. 20515

Dear Chair DeLauro, Chairman Cartwright, and Chairwoman Kaptur,

On behalf of the National Photonics Initiative (NPI), I am writing to thank the committee for advancing significant federal investments in Quantum Information Science (QIS) research and development (R&D). The levels approved in the Fiscal Year 2022 Commerce, Justice, Science, and Related Agencies Funding Bill and Energy and Water Development and Related Agencies Funding Bill will help advance QIS R&D in the near term and help lay the groundwork for significant long-term investments and workforce development.

As you know, quantum research holds tremendous potential for areas such as infrastructure management, cybersecurity, medical research and treatment, advanced communications, financial services, and transportation. The NPI thanks the committee for continuing to fund this important R&D to ensure we maintain our role as a global leader in the field and help bridge significant workforce gaps between leading quantum researchers and industrial product developers.

Specifically, the NPI applauds the inclusion of funding for quantum research in the amounts of \$245 million at the Department of Energy's Office of Science, \$255 million at the National Science Foundation's Research and Related Activities, and \$59 million at the National Institute for Science and Technology's Scientific and Technical Research and Services.

This continued funding will allow these agencies to continue QIS R&D, and, at the same time, help fund National Quantum Initiative Centers which will conduct basic and applied research, accelerate scientific breakthroughs, and train the workforce needed to capitalize on these scientific breakthroughs.



As we have seen, workforce development is particularly critical at this juncture. Without a long-term workforce trained in QIS R&D, our nation's scientific progress will not be sustained, and we will lose ground to global competitors like China. The scientific community appreciates federal support in accelerating this development and seeks to be a partner in this effort. We believe it is essential that we make investments now to create the workforce of the future.

The NPI and the scientific community appreciates the committee's commitment to advancing this important research and technology area and looks forward to help ensure these funding levels are included in any final spending package.

Sincerely,

A handwritten signature in black ink that reads "Edward White". The signature is fluid and cursive, with a prominent initial "E".

Ed White
Chair of the NPI Steering Committee