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**Congress of the United States**  
**House of Representatives**  
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**HOUSE PERMANENT SELECT  
COMMITTEE ON INTELLIGENCE**

February 17, 2022

The Honorable Betty McCollum  
Chairwoman  
House Appropriations Subcommittee  
on Defense  
Washington, DC 20515

The Honorable Ken Calvert  
Ranking Member  
House Appropriations Subcommittee  
on Defense  
Washington, DC 20515

Dear Chairwoman McCollum and Ranking Member Calvert,

As you work to finalize the Fiscal Year (FY) 2022 Defense Appropriations bill, I want to express my strong support for ensuring adequate defense investments in Quantum Computing. Quantum Computing is one of the most profoundly world changing technologies to date and will transform all technology-driven endeavors vital to U.S. economic and national security interests. The technologies that are anticipated to result from additional quantum research and development may provide solutions to some of the nation's most pressing national security concerns, particularly with respect to increasing threats from China, and advance solutions to other issues in the areas of energy, healthcare, communications, and finance.

**DARPA: Quantum Computing Acceleration**

I strongly support the FY 2022 Senate Defense Appropriations Bill which recommended an additional \$60 million for DARPA to evaluate disruptive designs for utility-scale, fault-tolerant quantum computers, with a specific focus on systems that can be constructed in less than 10 years using non-traditional quantum computing approaches. The FY22 National Defense Authorization Act (Public Law 117-81) also authorized an additional \$100 million for DARPA to accelerate their quantum computing initiative within Research, Development, Test and Evaluation (Defense-Wide) Program Element 0602303E (Line 15), Information and Communications Technology.

**Air Force: Development and Manufacturing of Advanced Photonic Quantum Computing**

I strongly support the FY 2022 Senate Defense Appropriations Bill which recommended an additional \$25 million for photonic quantum computing research within Research, Development, Test, and Evaluation (USAF), Program Element 0602788F (Line 14), Dominant Information Sciences and Methods. There is a critical need to develop large scale photonic quantum computers, and this additional investment will ensure the U.S. is able to effectively leverage its existing domestic infrastructure and quantum expertise within the Air Force Research Laboratory.

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These critical investments will help maintain and strengthen American leadership in Quantum Computing and allow the Department of Defense to effectively implement *Section 229 – Activities to accelerate domestic quantum computing capabilities* of the FY22 National Defense Authorization Act. I appreciate your attention on this matter and look forward to working with you to maintain the United States' emerging technology leadership to ensure our economic and national security.

Sincerely,

A handwritten signature in blue ink that reads "Elise M. Stefanik". The signature is written in a cursive style with a horizontal line underneath the name.

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Elise M. Stefanik  
Member of Congress