

December 8, 2023

The Honorable Frank Lucas  
Chair  
Committee on Science, Space and Technology  
2321 Rayburn House Office Building  
Washington, DC 20515

The Honorable Zoe Lofgren  
Ranking Member  
Committee on Science, Space and Technology  
2321 Rayburn House Office Building  
Washington, DC 20515

Dear Chairman Lucas and Ranking Member Lofgren,

Atom Computing is pleased to endorse the Reauthorization of the National Quantum Initiative Act (NQIA) and recognize your leadership and the Committee's focus on expanding the scope of the U.S. Government's efforts to maintain its global leadership in this important technology,

Atom Computing is a venture capital-backed start-up that is focused on building large scale, quantum computers using neutral atoms. Our technology uses lasers to capture atoms in free space and manipulate their quantum states, wirelessly running the quantum circuits. Our quantum hardware is unique due to its inherent scalability, as well as its energy, space and capital efficiency. In recent years, neutral atom quantum architectures have emerged as the dark horse, showing great technological promise relative to other competing computing architectures. In October of this year [we announced the 2024 availability](#) of the world's largest quantum computer with over 1200 qubits.

We are pleased to note language in the new bill supporting the exploration and use of a diverse set of quantum computing modalities, to include the "newer" quantum computing architectures such as neutral atoms. Additionally, the bill specifically highlights the importance of emerging startups within the industry. Historically, major technology transitions are often led by start-ups with disruptive ideas and unencumbered with legacy business or technology. By definition, startups are

resource and capital constrained, so it is critical that the early stage players in this space, such as Atom Computing, are supported by specific government programs and funding opportunities to help bridge the gap between research and development and wide-spread commercial and government adoption of our technology.

The reauthorization of the NQI also ensures that the U.S. will prioritize developing and cultivating a quantum-ready workforce. Retaining U.S.-trained foreign quantum talent must also be a priority for the U.S. government. Without specific plans in place, we risk losing talented quantum workers to global adversaries and other large technology markets. We look forward to future Committee action in this area and stand ready to collaborate.

Atom Computing applauds the bipartisan efforts of Chairman Lucas and Ranking Member Lofgren for introducing their bill to reauthorize the National Quantum Initiative Act. The reauthorization of this Act will not only continue to secure America's position as a leader in the quantum race, but establish critical funding and resources for start-ups like Atom Computing as we work to bring our large-scale, fault-tolerant quantum computers into a new era of functionality and inevitably are able to solve some of the world's most intractable problems such as drug development, supply chain optimization, climate change and national security.

Atom Computing is prepared to provide the Committee any assistance possible. Please feel free to call upon Mr. Greg Muhlner, Atom Computing's Vice President of Public Sector at [gmuhlner@atom-computing.com](mailto:gmuhlner@atom-computing.com) or 202-437-9397

Regards,

A handwritten signature in black ink that reads 'Rob Hays'.

Rob Hays  
CEO, Atom Computing

