



May 8, 2026

**FISCAL AND POLICY NOTE**

TO: Education and Workforce Development Committee

THRU: Dr. Arun Puracken *AP*  
Education and Workforce Committee Director

FROM: Caleb Callender *CC*  
Legislative Budget and Policy Analyst

RE: Policy Analysis and Fiscal Impact Statement  
CR-033-2026 Quantum Science Workforce Development

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**CR-033-2026** (*Proposed by:* Council Member Adams-Stafford)

Assigned to the Education and Workforce Development Committee

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A RESOLUTION CONCERNING QUANTUM SCIENCE WORKFORCE DEVELOPMENT for the purpose of expressing support for efforts to advance and strengthen the quantum science and technology workforce in Prince George's County; encouraging collaboration among educational institutions, workforce development organizations, employers, public agencies, and other stakeholders to identify and support opportunities for training, mentorship, curriculum alignment, apprenticeship, and career pathway development in quantum-related fields; urging relevant stakeholders to convene informally to discuss strategies for preparing County residents and students for employment and advancement in the emerging quantum science economy; and generally relating to workforce development and economic opportunity in Prince George's County.

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**Fiscal Summary**

**Direct Impact**

*Expenditures:* No anticipated impact on expenditures.

*Revenues:* May provide more job opportunities within Prince George’s County, which would result in more tax dollars.

### **Indirect Impact**

Likely Favorable.

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### **Legislative Summary:**

CR-033-2026, proposed by Council Members Adams-Stafford and Olson, would advocate for the advancement of quantum science throughout the County. The Resolution seeks to establish a throughline with educational entities within the County and businesses/government agencies within the quantum field. One goal is to provide more County residents with the opportunity for employment within the quantum field. While the Resolution does not formally establish a workgroup, there are multiple agencies (i.e. Apprenticeship Maryland, PGCPS) called upon to collaborate to ensure quantum continues to build and excel in Prince George’s County.

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### **Current Law/Background:**

#### *State and County Law:*

In January of 2025, Maryland Governor Wes Moore announced the beginning of a public-private partnership with University of Maryland and IonQ. The initiative hopes to place Maryland as the Capital of Quantum, with more than \$1 billion in investments<sup>1</sup> from State, federal and private sector funding. University of Maryland and IonQ, both located in Prince George’s County, will continue to recruit top end quantum scientists from across the world to pioneer this development.

The State also enacted HB-0376-2025<sup>2</sup>, which will establish a Maryland Cybersecurity Council, which will include five of Maryland’s top universities and multiple technology-based organizations. This council will be tasked with assessing and addressing cybersecurity threats and associated risks from artificial intelligence and quantum computing.

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### **Resource Personnel:**

- Ramon Gonzalez, Legislative Officer
  - Taylor Ware, Chief of Staff
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<sup>1</sup> [Maryland Gov. Wes Moore Announces \\$1B ‘Capital of Quantum’ Initiative](#)

<sup>2</sup> [HB-0376](#)

### **Discussion/Policy Analysis:**

Quantum computers use the principles of entanglement and superposition to process information far more efficiently than traditional computers, enabling them to solve highly complex problems that would otherwise take impractical amounts of time<sup>3</sup>. Unlike classical computers, which rely on bits, quantum computers operate using quantum bits, or qubits, allowing for a fundamentally different and potentially revolutionary approach to computing. Quantum computing will push the needle forward for modern day technology, producing more optimal machine learning, and faster results in areas such as drug development or financial modeling.

Quantum does pose potential security risks. Due to the complexity involved in quantum computing, modern computing will be at risk. Modern computing is limited to checking one option after another, whereas quantum systems can evaluate in patterns<sup>4</sup>. This will expedite the ability to solve complex coding that serves as security for not only companies, but also within government. Quantum attacks could also enable falsified transactions, impersonate trusted software vendors, or intercept credentials in transit.

Currently, both Prince George’s County Public Schools and Prince George’s Community College have begun exploring pathways to foster a stronger environment for quantum education and workforce development. PGCCPS has placed a growing emphasis on STEM learning, while PGCC is in the process of laying the foundation for a potential quantum-focused curriculum.

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### **Fiscal Impact:**

- *Direct Impact*

Adoption of CR-033-2026 is not likely to have an impact on the County’s expenditures. In due time, this could be proponent of growth within the quantum workforce in Prince George’s County, which may contribute to increased economic activity and potential future growth in local income, property, and business-related tax revenues.

- *Indirect Impact*

Adoption of CR-033-2026 may have a favorable indirect impact by providing opportunity for the quantum field to continue to grow. Partnerships developed through this Resolution, particularly with the school system, will benefit the residents of Prince George’s County.

- *Appropriated in the Current Fiscal Year Budget*

No.

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<sup>3</sup> [What is Quantum Computing](#)

<sup>4</sup> [8 Quantum Computing Cybersecurity Risks](#)

**Policy Implementation Resource/Project Timeline:**

Due to the timeline of this report, no timeline was provided by either Employ Prince George's or Prince George's County Public Schools.

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**Effective Date of Proposed Legislation:**

This Resolution goes into effect on the date of its adoption.

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If you require additional information, or have questions about this fiscal impact statement, please reach me via phone or email.