

A National Quantum Information Science Research Center

Taking a bold step together to create a new kind of research center.

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The LPS Qubit Collaboratory (LQC) is a national Quantum Information Science Research Center hosted at the **Laboratory for Physical Sciences** at the University of Maryland, College Park. The LQC pursues disruptive qubit research, innovative workforce development programs, and deep, collaborative partnerships to tackle some of the

hardest open problems in quantum information science and technology.

- We have **funding** for partnerships!
- We are **hiring!**

RECENT BLOGS, EVENTS, AND NEWS

The 2025 LQC National Quantum Fellowship Program

The Laboratory for Physical Sciences (LPS) Qubit collaboratory (LQC), in partnership with the Oak Ridge Institute for Science and Education (ORISE), is proud to announce a new fellowship program to support workforce development across the country. **READ MORE.**

2024 Quantum Computing Summer Short Course a Success!

From July 8 – July 19, 2024, the Laboratory for Physical Sciences Qubit Collaboratory delivered its fourth annual Quantum Computing Summer Short Course. The course drew an enthusiastic group of graduate students, advanced undergraduates, and others from a wide range of scientific disciplines including physics, chemistry, electrical engineering, and materials science. **READ MORE.**



2024 World Quantum Day Video

Check out our 2024 World Quantum Day Video. A collaboration between LPS Research Scientists and Thomas Jefferson High School Students to spread the word about Quantum Information Science.



2024 Quantum Computing Summer Short Course: Algorithms to Hardware Video

Check out our 2024 Quantum Computing Summer Short Course video. **READ MORE.**

LQC: Past, Present, and Future

My first “real” job taught me two things [1]. I learned a lot about building quantum computers. And I learned that the most important thing you can do in any position is find your successor. I am now the *former* director of the LPS Qubit Collaboratory.

READ MORE.

2024 Quantum Computing Summer Short Course: Algorithms to Hardware

The Laboratory for Physical Sciences (LPS) Qubit Collaboratory (LQC) invites graduate students and advanced undergraduates enrolled in physics programs, and programs in related disciplines, to take part in our 2024 Quantum Computing Summer Short Course. **READ MORE.**

Three 2023 Summer of Quantum Short Course Participants Visit the LQC

On Friday, Jan 12, 2024, Maya Moore, Jacob Rivera, and Laura Zhou visited the Laboratory for Physical Sciences (LPS). These three impressive students were selected by the Summer of Quantum Short Course Co-Leads in a random drawing from among those who successfully completed the course. **READ MORE.**

LQC Hosts Workshop "Kelvin: Solid-State Qubits at Elevated Temperatures"

On April 26, 2023, The Laboratory for Physical Sciences (LPS) Qubit Collaboratory (LQC) hosted an invitation-only workshop entitled, *Kelvin: Solid-State Qubits at Elevated Temperatures.* **READ MORE.**

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- Privacy Act Requests
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