LQC
LPS QUBIT COLLABORATORY

LPS — The Laboratory for Physical Sciences

The LPS Qubit Collaboratory presents

QUANTUM COMPUTING 2025
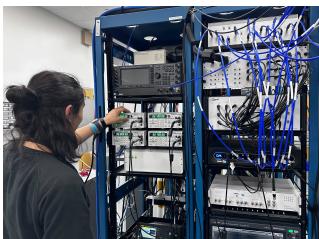## SUMMER SHORT COURSE

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 join our 2025 Quantum Computing Summer Short Course. The 2-week course will provide an introduction to quantum computing, from algorithms to physical implementations, including hands-on projects. Spaces are limited to enhance the student experience. Please submit your application using the QR code or URL below. We hope to see you there.

WORKSHOP TOPICS

- Qubit fundamentals
- Initialization & measurement
- One & two-qubit gates
- Quantum algorithms
- Superconducting qubits
- Semiconductor-based qubits
- Trapped ion qubits
- Neutral atom qubits

PLUS

- Course topics taught by subject experts
- Virtual lab tours
- Networking with peers and leading quantum information scientists
- Official certificate awarded for successful course completion

QUESTIONS? Contact: lqc@lps.gov

DATES: July 21, 2025 – August 1, 2025
TIMES: Afternoons 12:30 – 4:30pm EDT
LOCATION: Virtual
COST: Free to accepted participants

TO ENSURE CONSIDERATION APPLY BY: May 23, 2025

APPLY: USE QR code or visit
https://forms.gle/yoVfbonh4R3ypqDbA
(Application decision to be made by June 27, 2025)

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