JOIN US!

WORKSHOP: FROM ATOMS TO QUANTUM COMPUTERS

Explore the world of quantum science

Hands -on coding experience

Understand qubits

No prior experience needed

Curious about how quantum computers work—and how you can start coding one? In this **hands-on workshop**, students will dive into the fascinating world of quantum science by exploring atoms and the quantum materials used to build real quantum computers. You'll learn how **quantum information is stored** and manipulated **using qubits**, and **gain experience** with basic q**uantum gates and circuits**.

This beginner-friendly workshop includes guided coding exercises on IBM's actual quantum computers. Using Qiskit, a leading quantum programming toolkit, you'll write and run your first quantum algorithms. No prior experience is needed—just your curiosity! **Designed for students across STEM disciplines,** the workshop makes the core ideas of quantum computing **approachable, practical, and exciting.**

DR. HANNA TERLETSKA

Hanna Terletska is an Associate Professor of Physics at Middle Tennessee State University (MTSU) and the Head of the Quantum@MTSU Initiative. She is a leading researcher in quantum materials, quantum information, and quantum computing, and serves as Principal Investigator on multiple NSF and DOE-funded projects, including an NSF CAREER award. Dr. Terletska is spearheading the development of interdisciplinary quantum curricula and building partnerships to expand access to quantum science training in the Middle Tennessee region.

VINSE

Event Date
06-23-2025

Time
9AM-12PM

Event Location
044 ENGINEERING SCIENCE BUILDING

TO REGISTER

Event is free, space is limited. Register now!