

RESEARCH AREAS



OVERVIEW

Leading the quantum revolution with other Department of Energy National Quantum Information Science Research Centers.



QUANTUM MATERIALS DISCOVERY AND DEVELOPMENT

Exploiting topological properties of materials for computing applications.



QUANTUM ALGORITHMS AND SIMULATION

Developing and testing new scalable algorithms and software tools.



QUANTUM DEVICES AND SENSORS FOR DISCOVERY SCIENCE

Implementing quantum devices and sensors in real-world scenarios.

QUANTUM SCIENCE CENTER



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SCIENCE
CENTER

WHY QSC?



EXPERTISE

Researchers designing quantum technologies and growing the quantum workforce.



FACILITIES

Access to instrumentation at partner institutions and headquartered at Oak Ridge National Laboratory.



PARTNERSHIPS

Comprised of universities, national labs, and industry institutions.

The QSC is overcoming key roadblocks in quantum state resilience, controllability, and ultimately the scalability of quantum technologies.

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