Quantum Networking

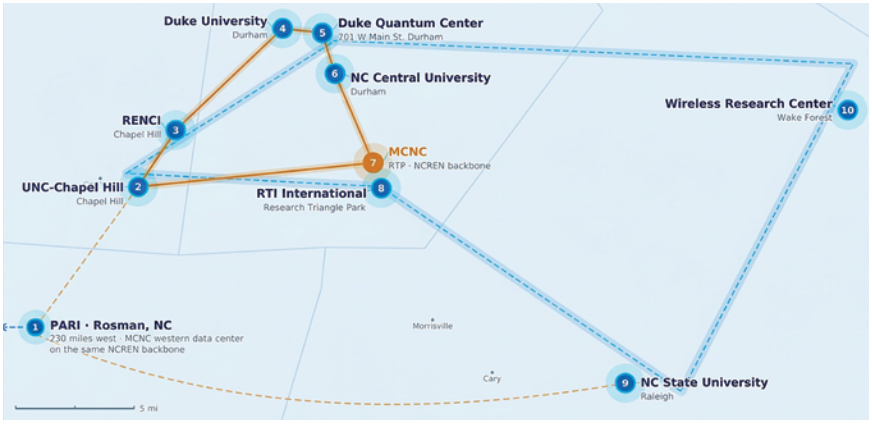
Quantum networking is moving out of the laboratory and onto North Carolina's fiber network.



A Working Distributed System for North Carolina

Get scheduled, repeatable access to five-node quantum technologies for quantum hardware and applications without starting your own fiber plant. With decades of experience running research infrastructure as a shared, statewide service, MCNC is building shared infrastructure across multiple sites that gives North Carolina's universities, industry partners, startups, and research groups access to quantum technologies that were previously out of reach.

Inside the Triangle Node



Marker positions reflect exact facility coordinates. The loop is illustrative: the fiber ring is schematic, not survey-accurate route data.

Ready to Connect?

Choose connectivity that's built for North Carolina's future.
Book an appointment with **Phil Emer** at **pemer@mcnc.org**
Want to learn more? Visit **mcnc.org/connect**

Services

- C-band & O-band Entanglement Distribution
- Sub-Nanosecond Synchronization
- Cryogenic Single-Photon Detectors
- Programmable Qubit Analysis
- Self-Service Scheduling Portal

Industries Served

- Culture & Learning
- Education
- Health & Safety
- Public Sector
- Research & Innovation

Quantum Networking Benefits

- ✓ Distributed Experimentation
- ✓ Cybersecurity
- ✓ Quantum Optics Lab
- ✓ University Hosted
- ✓ Bring Your Own Technology

MCNC