



MCNC[®]
Connecting North Carolina's Future Today

High-Speed Foundation for Higher Education

Introducing MCNC and NCREN

MCNC is a broadband non-profit organization that operates the North Carolina Research and Education Network. This world-class, 2,600-mile fiber network and MCNC's operational expertise provides a strong foundation for the state's public and private universities and colleges.

NCREN is North Carolina's community anchor network

North Carolina's higher education institutions are pillars in communities throughout the state, and NCREN helps to enhance the learning experience for students, instructors, and administrations by cost-effectively meeting the bandwidth needs of these connectors now and for the foreseeable future. This level of connectivity will help give rise to new ideas, greater educational attainment, and a better prepared workforce.

Broadband essential for success in higher education today

Customer service fuels great education connections. NCREN is engineered to have virtually unlimited capacity to keep pace with skyrocketing bandwidth demand, and MCNC remains responsive to the needs of its constituents by providing leading-edge services that support and enhance innovation. MCNC has an infrastructure that can scale to the bandwidth and service delivery needs of North Carolina's higher education community at reasonable costs while a skilled, customer-oriented staff can address the unique needs of each institution by providing economical and scalable applications, tools, and services.

MCNC services expand with the network

There are more than 50 universities and colleges throughout North Carolina. Each is increasingly integrating broadband-dependent technologies in curriculum and administration, and access is required for students, faculty, and staff both on and off campus. Implementation of new digital learning environments and dynamic online courses is further proof that demand for middle-mile bandwidth in higher education will continue to rise. To accommodate this growth, MCNC offers Internet connections ranging from 100 Mbps to 10 Gbps.

Additional services may include Movi-Jabber video client resources along with training and IT administrator support. Video services include point-to-point and multi-point connections, ad-hoc point-to-point sessions, live streaming or webcasting, and archived content. MCNC also offers client network engineering to include network assessments as well as custom requests such as network design or Single Sign-On implementation. All services and connections are proactively monitored by the Network Operations Center 24x7x365.

Going beyond connectivity (*optional MCNC services*)

Individual higher education connectors can directly contract with MCNC for other specific services. MCNC offers a range of hosting options in an advanced SOC 2 compliant data center, which includes co-location services, managed hosting, virtual hosting, backup, disaster recovery, and storage. MCNC also offers Mediasite Course and Event Infrastructure Video Storage Service, managed third party Metro Ethernet Intranets between main campus sites and any remote campuses, the provisioning of direct fiber connections where feasible to NCREN for backup Internet, point-to-point connections to other direct fiber NCREN sites, and WAN connectivity to other NCREN sites. MCNC is proactive to the special and leading-edge needs of North Carolina's higher education institutions and remains committed to Connecting North Carolina's Future Today.

Did You Know?

- ✓ MCNC's Network Operations Center in Research Triangle Park monitors all services provided on NCREN 24x7x365.
- ✓ NCREN connects to advanced research networks like Internet2.
- ✓ MCNC is a member of The Quilt, a national coalition of advanced regional networks for research and education.
- ✓ RTP is home to three Tier 1 universities.
- ✓ NCREN is one of the nation's first statewide education and research networks.
- ✓ MCNC completed a \$144 million expansion (2,653 miles) of NCREN in 2013.
- ✓ SD and HD video, Movi, Telepresence and other video services are available on NCREN.
- ✓ Client Network Engineers are available to work with MCNC clients to help design, implement, and support their network and security infrastructure.
- ✓ NCREN maintains Regional Points of Presence on the MCNC campus in Research Triangle Park as well as in Raleigh, Greensboro, Winston-Salem, Greenville, Charlotte, Asheville, Fayetteville, Hickory, and Wilmington.

"NCREN provides the foundation for opportunity, efficiency, and acquisition of knowledge for all levels of education across North Carolina. In support of this network, MCNC is the state's leading broadband provider for interconnecting North Carolina's higher education community with each other and throughout the world. The combination of reliable service, high-performance bandwidth, and leading-edge technologies gives our great minds of today the ability to do amazing things tomorrow."

Jim Gogan
Assistant Vice Chancellor for
Communication Technologies
UNC Chapel Hill

Technical Support & Contacts

The Network Operations Center can be reached at 877.GO.NCREN or 919.248.1111 or trouble@ncren.net.



17 UNC campuses

UNC General Administration and UNC-TV

26 of 36 North Carolina Independent Colleges and Universities



East Carolina University's **10 Gbps connection** serves as a network hub east of I-95



Elizabeth City State University serves as a **regional hub** for the northeast and the Outer Banks



Appalachian State and Western Carolina universities serve as hubs in Western N.C.



Higher education institutions use **three times the bandwidth** today than three years ago

MCNC offers Internet connections for higher education connectors ranging from

100 Mbps to 10 Gbps



MCNC will continue to invest in bringing NCREN users best-in-class technology products and services to the network. We want to hear from customers, gain insight to their needs, and deliver a roadmap of innovation with superior customer service.

**All information provided herein was recorded as of January 2016. Customers can further explore available services in the MCNC Service Catalog.*

Contact us today by calling **919.248.1900**
visit **www.mcnc.org**