Local North Carolina Expertise

Our focus on serving and strengthening communities includes a long-held commitment to meeting the needs of educational clients. Many of our relationships have spanned decades and resulted in numerous award-winning projects.

Every university offers a unique history, context, and vision, and each project has a distinct set of objectives requiring a client-focused perspective. We have collaborated with a variety of institutions throughout North Carolina, from the established public research institutions to growing trade schools and community colleges:

- Alamance Community College
- Davidson College
- Duke University
- East Carolina University
- Forsyth Technical Community College
- Greensboro College
- North Carolina State University
- University of North Carolina (Chapel Hill, Charlotte, Asheville, Greensboro, Pembroke, Wilmington, and School of the Arts)
- Wake Technical Community College
- Wayne Community College
- Western Carolina University
- Winston-Salem State University

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North Carolina State University | Raleigh, NC
Project: Wolf Ridge at Centennial Student Housing Complex
Services: Mechanical, electrical, plumbing, fire protection, energy management, energy solutions
Description: This 430,000-square-foot student housing facility consists of 1,150 beds, a 20,000-square-foot dining facility with 370-seat capacity, a garage, and a 600-space parking area. The project was built to meet LEED® Silver certification and comply with Senate Bill 668, which states that public buildings in North Carolina must be renovated sustainably.

East Carolina University | Greenville, NC
Project: Tyler Hall
Services: Mechanical, electrical, plumbing, fire protection, structural, site/civil engineering, energy solutions
Description: This nine-story residence hall renovation required upgrades to meet current building and accessibility code requirements, including plumbing for new toilets, new steam-fired instantaneous domestic water heaters, existing fire alarm system updates and additions, makeup and exhaust air system modifications, and a new fire protection system.

University of North Carolina at Charlotte | Charlotte, NC
Project: Belk Gymnasium
Services: Structural, site/civil engineering
Description: We helped renovate this recreation facility by providing programming, design preparation, and construction administration. New features include more than 8,000 square feet of fitness space, landscaping, a redesigned entrance plaza, increased lighting, and improved accessibility within the facility.

Wake Technical Community College | Raleigh, NC
Project: Health Sciences II
Services: Mechanical, electrical, plumbing, energy management, site/civil engineering
Description: This new five-story, 102,000-square-foot facility will provide dining, classroom, and lab facilities for nursing, medical, dental assistance, radiography, surgical technology, therapeutic massage, and medical laboratory technology programs.

Duke University | Durham, NC
Project: Fitzpatrick Building Data Center
Services: Mechanical, electrical, plumbing, fire protection, structural, energy solutions
Description: This data center houses 285 network and server racks that support student and patient records, patient admission and discharge, and medical imaging storage. The center now has capacity for 183 network and server racks at 4kW/rack power density and 77 server racks at 9kW/rack power density.

University of North Carolina at Chapel Hill | Chapel Hill, NC
Project: North Carolina Botanical Garden Visitor Education Center
Services: Site/civil engineering, plumbing, stormwater, structural
Description: Our low-impact design features a functional space dedicated to student and public education. The space showcases how photovoltaic panels, geothermal wells, rainwater cisterns, and stormwater retention ponds can be integrated into the fabric of a natural environment.
Our Services

• Electrical
• Energy solutions
• Land planning
• Land development
• Mechanical
• Planning/programming
• Plumbing
• Security technology
• Site/civil engineering
• Sustainability
• Telecommunications
• Utilities
• Water

Winston-Salem State University | Winston-Salem, NC
Project: Center for Design Innovation
Services: Mechanical, electrical, plumbing, sustainability, energy solutions
Description: This 24,000-square-foot, multi-campus research center, is designed to pursue LEED® Silver certification. The center’s constituent campuses include the University of North Carolina School of the Arts and Winston-Salem State University. The center also collaborate with Forsyth Technical Community College.

University of North Carolina at Chapel Hill | Chapel Hill, NC
Project: Health Sciences Library
Services: Mechanical, electrical, plumbing, fire protection, energy solutions, telecommunications
Description: This six-story, 87,000-square-foot library was renovated as a state-of-the-art multimedia building. New features include multimedia conference rooms, computer labs, classrooms, study rooms, and a technology center.

University of North Carolina at Chapel Hill | Chapel Hill, NC
Project: Carrington Hall
Services: Mechanical, electrical, plumbing, fire protection, site/civil engineering, energy solutions
Description: This seven-story, 57,000-square-foot addition required power, fire alarm, and telecommunications upgrades to meet university standards. The project also included a $5-million utility relocation and was the first facility at the Chapel Hill campus to be LEED® certified.

Duke University | Durham, NC
Project: Water systems mapping and modeling
Services: Site/civil engineering, water, planning/programming
Description: We located, mapped, and collected asset information of the university’s east and west campus water distribution systems to prioritize improvements as part of a master plan to update various distribution networks, some of which were installed in the early 20th century.

North Carolina State University | Raleigh, NC
Project: Wolf Village Booster Station
Services: Site/civil engineering, water
Description: We designed and coordinated the installation of a temporary water booster pump station that fed water to emergency fire sprinkler systems in nearby student housing facilities. The temporary booster was replaced with a permanent pump station once students had moved back in for the school year. The booster pump station now includes four parallel pumps with variable frequency drives and room for expansion.

Greensboro College | Greensboro, NC
Project: James Addison Jones Library
Services: Site/civil engineering
Description: The renovation and expansion master plan for the existing library facility took into account the college’s projected needs throughout the next 20 years. The renovation increased the library’s seating capacity to 300 and expanded stack areas to accommodate 180,000 volumes.