

Wake Tech - RTP Campus

Leading the Way



THE CHALLENGE

The RTP Campus of Wake Technical Community College (Wake Tech) is located on NC Highway 54 near I-540 in Morrisville, NC. Its next-generation learning environment is dedicated to the needs of individuals and corporations in Western Wake County and Research Triangle Park. The first building officially opened in August 2018, with plans for the 94-acre site to include up to 9 instructional buildings. CMS Controls was tasked with supporting WTCC in construction of its second building on this new campus.

Building 2 needed to be integrated into the existing central plant on the RTP campus for Wake Tech. Along with a controls system that would provide a complete control package for all systems associated, there needed to be specific code requirements for humidity, pressure, and temperature for the laboratory space.

THE SOLUTION

CMS Controls utilized a Distech Controls solution that included Web Based access into the campus's existing controls front-end user interface. CMS was able to implement complex sequences to monitor and accurately control humidity, temperature and pressure as needed to meet both code and laboratory specifications. The installed systems meet the short term and long term goals of the community college's facility team. The solution offers precise control while being able to tie into Wake Tech's master supervisory system.

CMS Controls worked diligently to maintain the construction schedule set by Wake Tech's Construction manager. All of the project specifications for technical conformance, safety and workmanship were easily met or exceeded as the third party commissioning agent verified. CMS provided all the necessary training, commissioning and engineering assistance needed to fully integrate this second building into the Wake Tech RTP campus ensuring that the facility team tasked with taking care of this building had an intuitive, fully-open building automation system for years to come.

COMPANY

Founded 1958
70,000 Students
Largest Community College
in North Carolina

BUILDING

Located on WTCC RTP Campus
3 Story
63,314 square feet
Classroom and Laboratory Space

CASE STUDY HIGHLIGHTS

4 Large AHU's with Supply & Return Fans
63 VAV's with hot water reheat
15 exhaust valve boxes
Power meter monitoring

CMS Controls provided Wake Tech Community College with an Open Solution for their facility which offers flexibility in software updates and services providers as well. With the second building successfully added to the RTP campus, CMS Controls is able to fully support the facility and staff with all of their control system needs as well as the ability to monitor with 24/7 support.



ABOUT THE CLIENT

Established in 1958, Wake Technical Community College (Wake Tech) is the largest public community college in North Carolina. With multiple campuses throughout Wake County, it serves approximately 70,000 students each year. Wake Tech is accredited and offers more than 200 associate's degrees, diplomas, and certificates that prepare students for university transfer or immediate employment. The college also offers short-term, non-degree programs in IT, healthcare, hospitality, public safety, skilled trades, and more. Wake Tech also serves high school students at the Wake Early College of Health and Sciences, Vernon Malone College and Career Academy and Northern Wake College and Career Academy, in partnership with Wake County Public Schools.

HOW CAN WE HELP YOUR BUSINESS GROW?

CMS Controls is the leading building automation and controls company across the Carolinas, Georgia and Virginia. At CMS, we have provided hundreds of installations across the southeast with proven cost-effective, energy saving designs. From building automation, thermal imaging, lighting controls, and systems integration, CMS Controls has a solution for every type of facility. Our focus is to design and maintain a building automation system that minimizes energy consumption in our customer's facilities. CMS systems provide an interactive graphical interface which allows any operator to easily access and fine-tune their system for precise control.



616 Hutton Street Raleigh, NC 27606
(919)431-9411
www.cms-controls.com