




Workforce Forward Strategic Development





WAKE TECH plays a vital role in ensuring widely-shared *prosperity and economic growth* for our community through its workforce development role and capabilities. Our region is noted for its *dynamic economy with rich job opportunities*. Sustaining these opportunities and fulfilling the promise of our economy requires that we not only pull people *into* our communities, but we pull people up through workforce development. Wake Tech's LADDER ECONOMICS strategies are focused on the *workforce development infrastructure* that scaffolds to and sustains our community's strong job market.

An aerial rendering of a modern university building with a curved glass facade and a large fountain in the foreground. The building is surrounded by greenery, trees, and a parking lot. The scene is set during the day with soft lighting.

THANKS to unprecedented local capital investment in our community college, Wake Tech is prioritizing a *workforce forward* strategic investment strategy that invests in the physical infrastructure that provides the *state-of-the-art* labs and facilities that create job opportunity throughout our county. Between 2018 and 2028, over \$800 million has been approved by the leaders and residents of Wake County through unprecedented bond funding commitments to construct and renovate *workforce-focused education* and training facilities that support:



JOBS THAT

keep our community running;

TECHNICAL JOBS in skilled trades
and facility maintenance,
advanced manufacturing and
production technologies,
and transportation technologies.



JOBS THAT

keep our community safe and healthy;

**LAW ENFORCEMENT, FIRE AND
RESCUE JOBS** and healthcare
jobs in nursing, imaging, and
allied health professions.

A man in a tan trench coat and dark suit stands on a construction site, holding a shovel. In the background, there are yellow excavators, a body of water, and a sign that says "PROTECTION AREA".

JOBS THAT

keep our economy strong and growing.

**INFORMATION TECHNOLOGY,
CYBERSECURITY, GAMING AND
DIGITAL CREATION** jobs as well
as life science jobs in biotechnology
and biopharmaceutical production.

An aerial photograph of a city skyline at sunset. The sky is a mix of blue, orange, and yellow. The city features various buildings, including a prominent skyscraper on the right. In the foreground, there is a large parking lot with several cars and a boat ramp with many boats. The text 'We are gra' is overlaid in a large, white, sans-serif font, with 'gra' in a cursive script.

We are gra



grateful

*to the citizens of Wake County for their confidence in Wake Tech to foster an unparalleled workforce development infrastructure to keep our community prosperous. This document provides a summary of the **WORKFORCE FORWARD STRATEGIC INVESTMENTS** and the new and expanding programs and partnerships they are fostering.*

JANUARY 2020
SOUTHERN WAKE CAMPUS
34,608 SQ. FT.
\$12,136,263



CENTER FOR BUILDING TECHNOLOGIES





The Center for Building Technologies on Wake Tech's Southern Wake Campus provides a state-of-the-art home for Air Conditioning, Heating and Refrigeration; Electrical Systems Technology; and Facility Maintenance programs. New labs support training for solar technologies as well as a home for North Carolina's first associate degree program in Building Automation Technology. The facility also features the only Mitsubishi Trane HVAC U.S. (METUS) Training Center at a community college in the U.S., providing an industry partnership that allows students, faculty, and contractors to be trained through the Mitsubishi certification programs for ductless equipment. Program relocations to the Center for Building Technologies and renovations to **Ready Hall** are accommodating new labs supporting expansion of welding technology and commercial refrigeration programs.

READY HALL RENOVATION

MAY 2023

SOUTHERN WAKE CAMPUS

24,927 SQ. FT.

\$6,816,000

HENDRICK CENTER FOR AUTOMOTIVE



APRIL 2021

SCOTT NORTHERN WAKE CAMPUS

100,653 SQ. FT.

\$41,954,736

EXCELLENCE

Named for Rick Hendrick, North Carolina automotive and racing icon and Wake Tech philanthropic supporter, Wake Tech's new **Hendrick Center for Automotive Excellence** is one of the nation's most advanced facilities for educating automotive systems technicians and collision repair specialists. Thanks to the Hendrick Center, Wake Tech's enrollment in auto technician programs has more than tripled to 300 enrolled students and growing. Significant investments in technology and programs are positioning the programs for leadership in EV (electric vehicle) repair. The Hendrick Center also features several state-of-the-art shop areas including the Capital Automotive Systems Lab, Axalta Collision Repair Lab as well as advanced engine, transmission and welding labs. The state-of-the-art classrooms on Advance Auto Parts Row provide homes for Wake Tech's OEM partnerships with Ford, General Motors, Audi, Mercedes, and Subaru as well as an academic center named for four-year partner in automotive management, Northwood University. The Wake County New Vehicle Dealers Lobby provides a community meeting space for events and meetings while providing windows to the advanced training taking place in the labs.



NOVEMBER 2021

BELTLINE EDUCATION CENTER

28,475 SQ. FT.

\$4,033,250

WAKEWORKS[®] APPRENTICESHIP CENTER





Wake Tech's Beltline Education Center was expanded to create a new training hub for Wake Tech's unique WakeWorks® Apprenticeship program. WakeWorks is a Wake County funded initiative that in a short period of time has helped Wake Tech become one of the fastest growing apprenticeship colleges supporting over 100 Wake County employers and growing. The **WakeWorks Apprenticeship Center** has facilitated this growth and consists of the Lonnie and Carol Poole Family Foundation Skilled Trades Apprenticeship Lab supporting carpentry, plumbing, pipefitting, electrical, heating and air conditioning related apprenticeship training, and a 15,000 sq. ft. Mechatronics and Robotics Lab. Wake Tech is one of a small number of select national training partners for Amazon's Mechatronics and Robotics Apprenticeship Program which is based at the new center. The program, which focuses on military veterans, prepares apprentices to maintain and repair the automated equipment in Amazon fulfillment centers across the United States.



FEBRUARY 2022
RTP CAMPUS
63,614 SQ. FT
\$46,967,930



LILLY SCIENCE AND TECHNOLOGY CENTER





The Lilly Science and Technology Center is named for philanthropic supporter, the Eli Lilly Foundation, and is strategically located on Wake Tech's RTP Campus on the eastern edge of Research Triangle Park. The facility and campus are within close proximity to many of the region's largest technology companies including Cisco Systems, Fujifilm Diosynth Biotechnologies, Eli Lilly, Credit Suisse, and Lenovo, and within a short distance from major new developments including the new Apple campus and the Longfellow and SPARK biotech campuses. The top floor of the three-story facility is home to Wake Tech's biotechnology associate degree program that prepares advanced lab technicians for work in gene and cell therapy and other lab-based biotech production companies. In addition to a biochemistry lab, the third floor includes the CSL Seqirus Microbiology Lab, the Lighthouse Aseptic Training Suite for gowning and aseptic training, the Sam Taylor BioWork Lab for the accelerated biotech training, and the Amgen Collab for project-based student work and lab-based industry training. The second floor, sponsored by Fujifilm Diosynth, is home to the new Wake Early College of Information and Biotechnologies, an Early College high school partnership with Wake County Public Schools where almost 400 high school students will complete their high school diplomas while accelerating toward college credentials in computer programming, cybersecurity, network management and biotechnology. It also features the Cisco Computer Networking Lab. The first floor features the RTP Foundation Administrative Suite, a Pearson Vue Testing Center, a capstone lab for Wake Tech's first-in-the-nation data analytics program, and co-location offices and classrooms for our four-year partner, North Carolina A&T State University. The presence of both high school and university means students can begin technology education in high school and complete technology degrees at the bachelor's level all within the same facility.



JUNE 2023

EASTERN WAKE 4.0 CENTER

15,700 SQ. FT.

\$64,095,000

RENEWABLE ENERGY TRAINING CENTER





A Wake Tech philosophy in building construction has been to create and integrate technical training spaces that provide students a training infrastructure and visibility into the advanced controls and infrastructures of the future. Wake Tech's new Eastern Wake 4.0 Center in Wendell will build on this philosophy with the new **Renewable Energy Training Center** that is integrated into the campus infrastructure. The facility will be the control hub for approximately 300 geothermal wells that heat and cool campus facilities, while photovoltaic panels on each campus facility will provide electricity support for the campus as well as an additional solar training ground for Wake Tech electrical students. The Renewable Energy Training Center will be a dedicated lab for training in these and other renewable energy devices, including the electrical transmission plugs used to charge electric vehicles.

JANUARY 2024
EASTERN WAKE 4.0 CENTER
80,311 SQ. FT
\$59,811,700

PUBLIC SAFETY SIMULATION COMPLEX





Furthering Wake Tech's role as one of North Carolina's leading public safety training providers, the new **Public Safety Simulation Complex** will be the only facility in North Carolina for reality-based scenario training with force-on-force training capabilities. It features an approximately 50,000 square foot indoor street scape built to real-world specifications and accommodating multiple emergency vehicles at the same time in a climate-controlled facility that simulates both day and night scenarios. It features designated virtual reality and simulation training space with specialized pods that replicate community spaces including a school, retail shops, townhomes, and a hotel as well as specialized corrections and detention, K9 and mat room training space. The facility is

contiguous to an almost 8-acre reinforced concrete driving pad for law enforcement, EMS and fire/rescue driving training including tractor-drawn aerial apparatus training capability which is connected to the interior street scape allowing for real-world response ranging from dispatch, scene management and departure. The Complex will house Wake Tech's Emergency Medical Science program in an 8,000 square foot EMS training lab that features an ambulance simulation space inside a classroom, as well as a two-bay ambulance garage. The Public Safety Simulation Complex will also be the location of a new state-of-the-art training space for unmanned aircraft training (i.e., drones) featuring flight simulation technology that will be shared with university partner, Elizabeth City State University.

The 115,000 square foot **Eastern Student Center** will be the hub for campus operations and general education classes on Wake Tech's new Eastern Wake 4.0 Center in Wendell, featuring science labs, classrooms and faculty offices enabling the on-site completion of both university transfer and applied associate degrees. It will also be the home of Wake Tech's Associate in Engineering program that provides students a seamless transfer pathway to university engineering programs such as NC State's College of Engineering, while also offering a connection to advanced technology in the neighboring Advanced Technology Center. The facility will house advising and counseling offices, a library, café bookstore, and auditorium space. It will also feature a CARE Center providing students onsite access to student success coaches, emergency aid, technology and transportation assistance, along with food and wellness services.



JANUARY, 2024
EASTERN WAKE 4.0 CENTER
115,283 SQ. FT
\$72,454,000

EASTERN STUDENT CENTER



JUNE 2025

EASTERN WAKE 4.0 CENTER

78,948 SQ. FT

\$60,360,924

ADVANCED TECHNOLOGY CENTER (4.0)



The Advanced Technology Center on Wake Tech's new Eastern Wake 4.0 Center will be a state-of-the-art engineering and advanced manufacturing education center fostering interdisciplinary and collaborative workspaces that support Industry 4.0 production. Collaborative technical education will be at the heart of the three-story facility, with a 5,000 square foot Makerspace featuring laser cutters, shopbots, an additive manufacturing shop, a wood shop and welding space, with an additional outdoor area allowing space for indoor/outdoor Makerspace interaction, demonstrations and public viewing as well as a Materials Lab for project testing. The Makerspace will be housed next to a Systems Integration lab featuring robotics, automation, and mechatronics equipment. The first floor will also be the site of a lobby/presentation area for career fairs and competitive events and an advising center that will also be the onsite location for East Carolina University's Bachelor of Science in Industrial Technology. The second floor will feature specialized electronics labs supporting

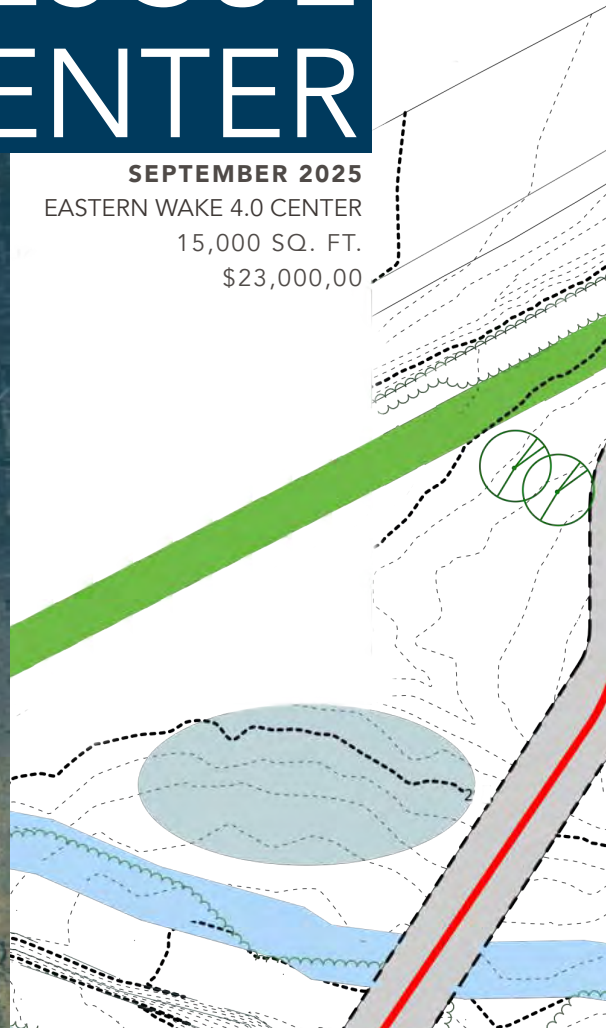
microelectronics, unmanned aircraft repair and both analog and digital applications, a mechanical lab with pneumatics, motor controls and PLC trainers, as well as CAD labs and computer labs supporting multidisciplinary collaborative training. The third floor will be the new home for Wake Tech's Biopharmaceutical Technology program providing a special focus on Upstream Fermentation and Downstream Purification pharmaceutical production processes. Unit operations will be taught in a unique Biopharma Simulated Work Environment that will feature several pieces of advanced equipment including a passthrough autoclave, classified inoculation chamber, bioreactors, centrifuges, filling isolator equipment and remote automation-controlled PLCs. The Biopharma Simulated Work Environment will include 10,000 square feet of controlled space, requiring special gowning to enter through a personnel air lock, simulating the protocols found in the region's pharmaceutical production facilities.



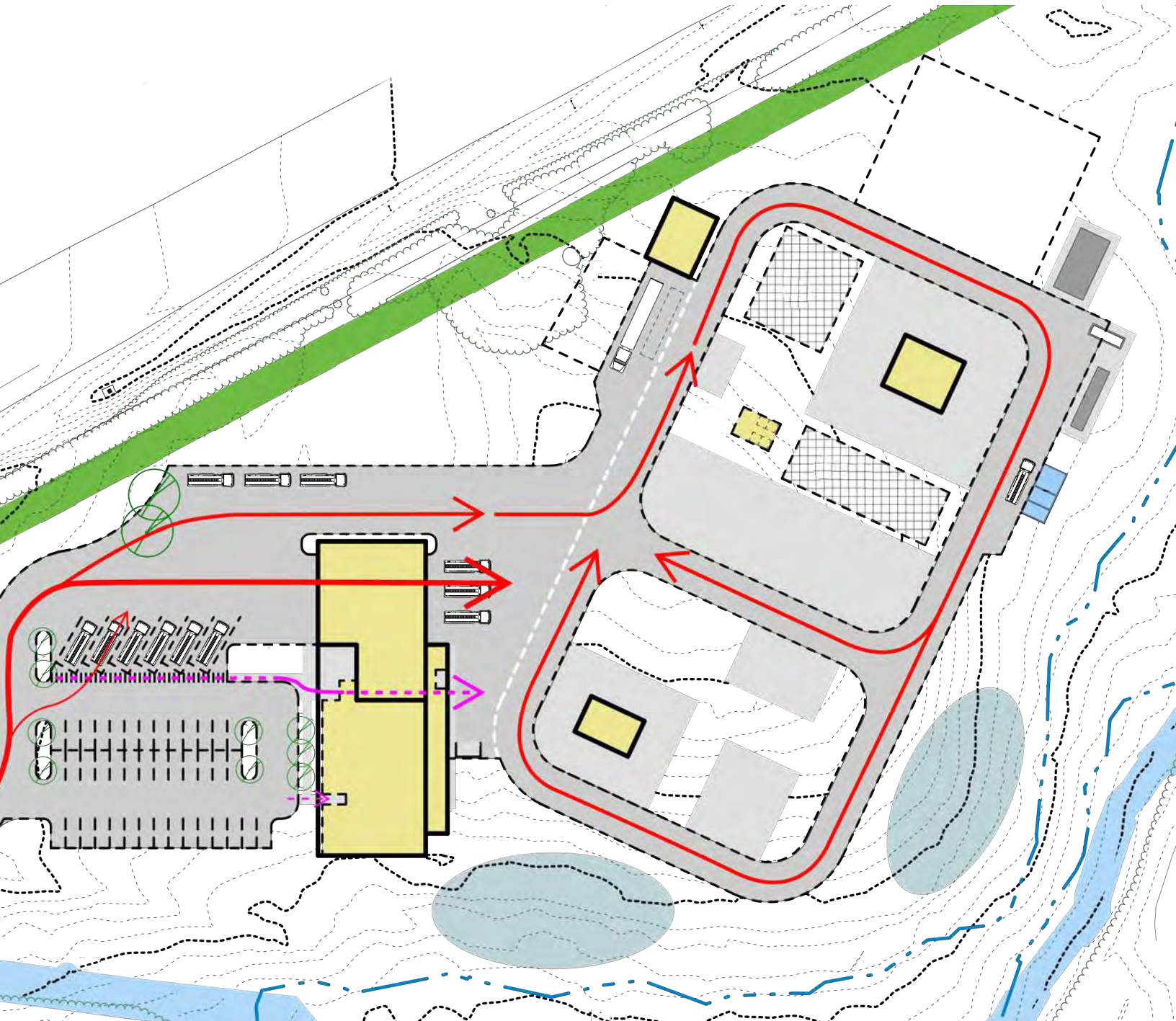
FIRE AND RESCUE TRAINING CENTER



SEPTEMBER 2025
EASTERN WAKE 4.0 CENTER
15,000 SQ. FT.
\$23,000,00



A Fire and Rescue Center will spread across approximately 8.5 acres at Wake Tech's new Eastern Wake 4.0 Center in Wendell supporting in-service training for regional fire and safety first responders. It will feature a large Class A burn building with multiple stories and the ability to support driver and pump operations training in real world settings. Another tower at the site with mixed-use capability including a simulated elevator will support various technical rescue and search capabilities. The complex will also feature a small classroom building and additional complementary training props including gas props, a mobile roof ventilation prop, and a mobile flashover simulator.



Through the WAKE3 partnership between Wake Tech, Wake County and WakeMed, a Health and Education District will be created in the New Bern Avenue corridor as a result of this unique collaboration between the three entities that share a contiguous footprint. In addition to providing a more campus like environment and opportunities for greater development in the region, this partnership will result in Wake Tech inheriting land that will accommodate three healthcare education facilities and a new parking deck at an enlarged Perry Health Sciences Campus. A key element of Phase I development will be the completion of a new **Simulated Hospital** facility enabling Wake Tech to expand programs in nursing and imaging, foster development of new programs such as respiratory therapy, cardiovascular sonography, and mental health technician, and offer

the latest healthcare simulation across multiple program areas. One floor of the facility will replicate a working hospital floor enabling Wake Tech students and aligned partners to train in a facility setting designed to simulate their future work settings. In addition to the Simulated Hospital, Phase I development will include construction of a new **parking deck**, and initial development of a new roadway infrastructure fostering access to the redesigned campus setting. Three significantly out-of-date buildings that Wake Tech inherited from WakeMed at the college's inception will be demolished to make room for the new spaces. Additional land expansion at the Perry Health Sciences Campus as part of the WAKE3 partnership will enable the further addition of two new healthcare education facilities in future college expansions.

SIMULATED HOSPITAL/ PARKING DECK



DECEMBER 2026

PERRY HEALTH SCIENCES CAMPUS

120,000 SQ.FT.

\$105,065,00





DECEMBER 2027
WESTERN WAKE CAMPUS
125,000 SQ.FT
\$75,500,00

WESTERN WAKE WORKFORCE CENTER

Wake Tech's existing Western Wake Campus located in a leased facility in Cary will be relocated to a new, highly accessible 34-acre site on NC 55 in Apex. The new Western Wake Campus will be part of the 1,000 acre Veridea project that spans NC 55, U.S.1 and the new Highway 540 expansion and will include single and multi-family housing, commercial, industrial production and life science space. The new permanent campus will be just south of downtown Apex and north of downtown Holly Springs and will be within a few miles of most of the new and expanding biotechnology companies in that part of Wake County. Current Western Wake Campus operations including student services, the library and Individualized Learning Center will be relocated to the new site that will feature classrooms and labs to support the degree, non-degree continuing education, and College and Career Readiness programs currently offered at the Western Wake Campus.

The new location will serve as the hub for Wake Tech's business programs and will include an Entrepreneurship Center with offices and resource space for the Small Business Center and the offices of the National Association of Community College Entrepreneurship. Included in Phase I development for the new campus will be the **Western Wake Workforce Center** which will be the hub for the BioWork program and other biotechnology-related workforce training, an industrial production training site, and IT/Game Development training labs. In addition to being in close to some of North Carolina's newest and largest biopharma companies such as Fujifilm Diosynth Biotechnologies, Amgen, and CSL Seqirus, the new Western Wake Campus will also be centered between the sites of the new Apple Campus in RTP, the new Epic Games headquarters in Cary, and the new VinFast electric vehicle facility in Moncure.



Wake Tech will build a third building and new parking deck on its RTP Campus in Morrisville and welcome a new neighbor in Wake County Public Schools. The RTP Campus located on the northern side of Research Triangle Park is the hub of Wake Tech's information technology and biotechnology programs, as well as a co-location site for Wake Early College of Information and Biotechnologies and North Carolina A&T State University. The sale of 34 acres of land to Wake County Public Schools will bring a second high school, this time a comprehensive high school to what had previously been Wake Tech property, further fostering seamless education opportunities with a technology focus from high school to college. The new third Wake Tech structure on the campus will continue the theme of supporting STEM education and career opportunities, with specialized labs supporting one of Wake Tech's fastest growing programs, **cybersecurity**. The facility will also offer additional life science education and training spaces and new spaces for co-location partners, NC A&T and the North Carolina Military Business Center. Wake Tech is also providing 17 acres of campus land to the City of Morrisville through a low-cost, long-term lease to create a recreational park.

MARCH 2028

RTP CAMPUS

80,000 SQ.FT

\$65,000,000

CYBER/SCIENCE FACILITY & PARKING DECK



We not only *pull people* **INTO**
our communities, but we *pull people up through*
WORKFORCE DEVELOPMENT.

JOBS THAT

keep our community running;
keep our community safe and healthy;
keep our economy strong and growing.

Wake Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Wake Technical Community College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Wake Technical Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).