Gateway Grows

Research Facility Three at Gateway South, a 70,000 square-foot building, made its debut at an opening event on October 5th attended by nearly 200 local and state leaders in business, education and industry. The new facility is anchored by Core Technology Molding Corporation, an advanced manufacturing firm that provides injection molding for major manufacturers. Core Tech takes up about half the space in RF3 and another company will be announced soon. Other organizations are considering a move into RF3 and there’s currently more space for lease. The new building has research labs and offices along with a well-appointed boardroom for tenant and community use.

Speakers at the opening event talked about how the expansion of Gateway Research Park is recognized as an exciting step in the growth of the East Greensboro area. Mayor Nancy Vaughn said, “East Greensboro is an epicenter of growth and it offers more opportunity than any other portion of the city.” She talked about the City’s current and planned investments on East Gate City Boulevard that include pedestrian walkways and other enrichments. Mayor Vaughn also mentioned the #investeast campaign recently launched by the city, which will work to provide core economic and infrastructure assets to help encourage new capital investment and job creation in East Greensboro.
Sharon Hightower, City Councilwoman for District #1 talked about how she at first doubted if Gateway Research Park would fit in the neighborhood but she then became an enthusiastic supporter. “Once I saw what it brought to the area, I realized it would be a very positive asset to residents along East Gate City Boulevard,” said Councilwoman Hightower.

Gateway Executive Director John Merrill kicked off the event with an overview of Gateway’s new facility. Other speakers were NC A&T Chancellor Harold L. Martin, Sr. and UNCG Chancellor Franklin D. Gilliam, Jr., along with Margaret Spellings, president of the University of North Carolina System, who all praised Gateway as a remarkable statewide model for how collaboration leads to vibrant, knowledge-based economic development. Wolf Duwenkamp from BMW spoke about the reliably high quality of Core Technology and presented a certificate of achievement to one of Core Tech’s employees.

Core Technology Molding Corporation

New processes and materials are part of Core Technology’s outstanding accomplishments that led to its move and expansion to Gateway as the anchor tenant of Research Facility Three. The company, which currently has 25 employees, designed an award-winning injection molding process and uses robotics to manufacture components that it ships to 150 countries. “Our expansion here at Gateway was a strategic move and I’m very pleased with where we are,” said Geoff Foster, CEO of Core Technology Molding Corporation. “We took some of the best practices I’ve seen in facilities all over the world, including Germany, Austria, Switzerland and South Africa and incorporated them into our design.” Core Tech’s impressive space is handsomely outfitted and includes a workout room with exercise equipment for its employees.

Four of Core Tech’s leaders are graduates of NC A&T State University and Gateway’s partnership with universities boosts access to university interns who often become employees. “Core Technology is a model organization with leadership that understands how being connected with universities can drive dynamic growth through projects, research and internships,” said John Merrill, Executive Director of Gateway Research Park. “At Gateway, our university connection establishes an environment that brings together smart, creative minds with top-notch facilities and highly advanced equipment. That ongoing collaboration then stimulates innovation for further growth.”

Collaboration at Gateway has productive outcomes in multiple ways. Foster said being next door to JSNN gives Core Tech access to scientists and state-of-the-art equipment has already led to results. “With the nanoscience school next door to us, they were able to produce prototypes of parts overnight which we then delivered to BMW. Those parts are in BMW cars right now.”
heavy truck, consumer goods and gaming sectors. Core Tech has a certified Class 10,000 and Class 1,000 medical grade clean room.

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**Gateway welcomes new dean to JSNN**

Gateway welcomes Dr. Sherine Obare, the new dean of the Joint School of Nanoscience and Nanoengineering (JSNN), leading a school of 16 full-time faculty members and more than 100 graduate students.

Dr. Obare comes to JSNN from Western Michigan University, where she was Associate Vice President for Research and a Professor in the Department of Chemistry. She earned her B.S. in Chemistry with a minor in Biology from West Virginia State University and a PhD in Chemistry from the University of South Carolina. Dr. Obare was a postdoctoral fellow at The Johns Hopkins University where her research focused on chemistry and environmental engineering.

Obare, who has been honored with multiple national awards, established an internationally recognized and externally funded research program that has fostered successful collaborations globally. “I aim to build strong interdisciplinary research teams through strategic modes of collaboration with various industries and government labs,” said Dr. Obare. “State-of-the-art discoveries in nano-based emerging technologies will be strengthened by engaging with faculty in various disciplines including business, economics, medicine, health and human services, education, social science, and the humanities.”

Her research focuses on the use of nanoscale materials for drug delivery and other healthcare, alternative energy and environmental remediation, understanding interactions between nanomaterials and biological cells and the toxicity of engineered nanomaterials. Through working with elementary, middle school and high school students, Dr. Obare has developed strategies to improve STEM education.

Dr. Obare said, “I am excited by the incredible promise of the unique partnership between North Carolina A&T State University and the University of North Carolina at Greensboro, brought about by the Joint School. As we look into the future, the strengths of both institutions, with their distinct missions, will invigorate nanoscale science and engineering research and education. My goal is to facilitate opportunities for faculty and students at the Joint School of Nanoscience and Nanoengineering as well as for researchers and organizations at the Gateway Research Park.”

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**#InvestEast**

Gateway’s growth is just part of the burgeoning expansion of opportunities in east Greensboro. From Union Square to Revolution Mill to the huge mixed use development started on the former post office site on East Market Street, exciting investments are bringing more places to work, live and play in the eastern half of the city.

#InvestEast is an initiative from the East Greensboro NOW and the City of Greensboro to help foster investment in the future of East Greensboro. Through #InvestEast the City of Greensboro will provide business support services, a pro-business environment and leverage all its core economic and infrastructure assets to help encourage new capital investment and job creation in East Greensboro.
that will have tremendous economic impact in East Greensboro. We have 20 economic development projects in the works and housing and entrepreneurship are booming.” Gateway South will soon have a grocery store eight minutes away when the Piggly Wiggly opens in April on Florida Street, and the State Employees Credit Union will soon open its new branch on East Gate City Boulevard.

“Gateway Research Park is a very significant development and is serving as the catalyst prompting more growth through its entry to east Greensboro,” said Sims.

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**Did You Know?**

- The average salary of people who work at a Gateway organization is over $60,000, significantly above the average in North Carolina and Greensboro.

- Getting to Gateway is fast and easy. Gateway South is only 2.5 miles from downtown Greensboro, accessible by car or via bicycle lanes. Public transportation from downtown includes a direct route on a City bus (free to students with I.D.) and HEAT transportation to NC A&T and UNCG. Both Gateway South and Gateway North can be reached by nearby major highways and the Greensboro Urban Loop.

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**Carolina Core**

Piedmont Triad Partnership has introduced the Carolina Core as a campaign to promote the central corridor of North Carolina as a globally competitive region of assets, research, manufacturing and office locations. “We believe this corridor has the best opportunities for job creation in the state and we’ve been thrilled at the response from economic developers interested in making major investments here,” said Stan Kelly, President of Piedmont Triad Partnership. As part of the Carolina Core, Gateway North and South enjoy the position of being a collaboration between universities and businesses, a feature attractive to developers. In 2019, the Carolina Core campaign will include extensive digital marketing, participation in major events and print advertising.
Greensboro Urban Loop

It's almost like all roads lead to Gateway Research Park. The Interstates in the Triad – I-40, I-85, I-73 and I-840 as well as the state highways have exits close to Gateway South and North. When Greensboro's Urban Loop is completed in two short years, it will make it even easier to get to Gateway South, and especially to Gateway North, which is less than 2 miles north of the Urban Loop.
sections from US 29 to Lawndale Drive will be opened in two phases, between Lawndale and North Elm will open late in 2020 and between Elm and US 29 in the fall of 2021.

“We’re very pleased in the huge difference the Loop is already making in how people get around Greensboro, and getting to Gateway will be very efficient for people from all around the area,” said Fisher.

Open For Business

At Gateway Research Park we offer large and small companies, entrepreneurs, and academics the opportunity to collaborate on new ideas, solve problems, and create value. We’re open for business! For information, contact John Merrill, Executive Director of Gateway Research Park.
Gateway Materials Test Center

Josh Tucker has been promoted to Lead Testing Engineer of Gateway Materials Test Center (GMTC), which tests materials and equipment for a wide range of companies in the eastern part of the United States. “My work involves trying to damage or break materials so manufacturers will know what needs to be changed before their products go to market,” said Josh. He moved into the full-time position after working at GMTC part-time while completing his Master’s degree in Mechanical Engineering at NC A&T State University.

Josh said, “Our work involves innovating and finding new ways to attack and solve problems. Besides having plenty of equipment to test products and materials here at Gateway, we also design custom fixtures for specific needs of companies.”

Josh’s experience of working with big machinery goes back to when served in the U.S. Army. Josh worked with big machinery.

The GMTC is a program of the Joint School of Nanoscience and Nanoengineering (JSNN), which is administered by Gateway Research Park.

KBI awarded grant for local horseshoe crab research

Dr. Kristen Dellinger of Kepley BioSystems Inc. (KBI), with offices at Gateway North, has been awarded a grant from the National Science Foundation (NSF) for leading-edge work in the field of horseshoe crab husbandry and blood collection, which is used for sterility testing of medical devices and pharmaceutical products. The NSF grant was issued through the Small Business Innovation Research (SBIR) program, given to high-impact, high-risk projects that promise significant social and environmental benefits.

Dr. Dellinger’s work involves the collection of horseshoe crab blood, unique in its acute sensitivity to toxic bacteria. The blood of horseshoe crabs, which is blue in color because of its copper content, is used to test for potential contamination during the manufacture of medical products used in contact with the human body, including injections, IV drips and implanted devices. Prior to 1970, such testing was done by injecting rabbits and waiting to see if a fever developed. With the discovery of the clotting factor found inside horseshoe crab blood, the detection of toxins from gram negative bacteria became immediate and more reliable.
blood, which could help conserve wild populations. Horseshoe crabs, an estimated 15-30% of which die during current biomedical bleeding practices, live only along the eastern shore of the United States, parts of Mexico and in Asia. "Horseshoe crabs provide us with a vital resource for ensuring drug and medical device sterility while playing a very important role in the greater ecological food web – it's our job to ensure that they continue to thrive by applying innovation to current harvest and bleeding practices," says Dellinger.

Dr. Christopher Kepley, associate professor at the Joint School of Nanoscience and Nanoengineering and co-founder of KBI says of the partnership with Gateway, "We are thrilled to be working on this project funded by the NSF. As a small business, the facilities at Gateway Research Park and the Joint School of Nanoscience and Nanoengineering allow us focus on advanced research given the unparalleled access to state-of-the-art resources."

"With bacterial infection as the third leading preventable cause of death in hospitalized patients, upon successfully ranching these ancient creatures, we would also hope to develop a test for the early diagnosis of potentially life-threatening sepsis by employing the same component of horseshoe crab blood in the future," Dellinger added. "We're embarking on an important, exciting journey!"

**USDA signs new lease**

The U.S. Department of Agriculture (USDA), the first tenant to move into Gateway South, has recently renewed its lease on 30,123 square feet in Research Facility One.

About 30 federal employees work in laboratories of USDA’s Natural Resources Conservation Service on developing technologies for effective conservation practices and the monitoring of wetlands and other natural resource conditions.

About another 32 employees work with the USDA’s East Remote Sensing Lab conducting efficient remote sensing operations using state-of-the-art technology. The USDA’s three regional RSLs help stretch the capabilities of agency field staffs by applying current technologies to provide aerial photo interpretation support to NRCS programs and activities.

An historical note of interest is that the founder of the agency that became the National Resources Conservation Service was Hugh
In Other News

**UNCG Plant and Pollinator Center** expands to Mehl Building at Gateway North. Its work is focused on identifying factors to foster diverse pollinators and plant communities that are more stable and resilient in the face of global change.

**EQuiPD** (Education Quality Improvement and Professional Development) moves to Hall-Mericka Administration Building at Gateway North from the UNCG campus. The organization provides programs and tools for professional development in early care and education programs.

**Gateway Giving**

Gateway had the opportunity over the holidays to come together and provide presents and gift cards for two families whose homes were damaged from the two significant storms impacting Greensboro in 2018. Greensboro City Councilwoman Sharon Hightower, District 1, provided the names of the families, which included four children and their grandparents who live in hard-hit east Greensboro.

Gateway, its staff, its Board of Directors, and employees from several Gateway tenants participated in the giving program. Councilwoman Hightower joined Gateway in delivering the gifts to the families.
Greensboro, NC 27401

GATEWAY SOUTH NEIGHBORHOOD NEWS

Gateway Gardens
Hayes-Taylor Memorial YMCA
Barber Park
Downtown Greensboro, Inc.

GATEWAY NORTH NEIGHBORHOOD NEWS

Bryan Park
BB&T Soccer Complex at Bryan Park

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