



## Advanced Manufacturing & Materials Processing

### Overview

Greensboro has long been known as the manufacturing center of North Carolina, and our economic growth has been built by a skilled manufacturing workforce. From wireless components and electronics, to aerospace and defense, to specialty composites and coatings, Greensboro is the perfect location for manufacturing. As times have changed, Greensboro's manufacturing capabilities have changed with them. Our colleges and universities are working together to provide skilled manpower – and brainpower – to ensure your success. We have the transportation and telecommunications infrastructure, as well as excellent power reliability to keep you operating at optimum efficiency. For advanced manufacturing, Greensboro is truly at the center of it all.

### A High Output Workforce

Greensboro's young and well-educated workforce provides high-quality output at a reduced operational cost. According to the U.S. bureau of Labor Statistics, more than 30,000 Guilford County workers are employed in advanced manufacturing and almost 99,000 people in the Piedmont Triad region work in advanced manufacturing occupations.

### Education Assets

We are investing heavily in the science of nanotechnology, recognizing the breakthroughs that can move innovations from the lab into the marketplace. Our colleges and universities stand ready to provide research support, sophisticated engineering programs, and training for a superior labor force ready to work in advanced manufacturing and materials processing.

### The Joint School of Nanoscience and Nanoengineering

Sponsored jointly by the University of North Carolina at Greensboro and North Carolina A&T State University, the joint school is located on the Gateway University Research Park. Master and doctoral degrees in Nanoscience and Nanoengineering are offered.

### North Carolina A&T State University

- **The Center for Advanced Materials and Smart Structures** conducts research on advanced ceramic materials and their composites.
- **The Center for Composite Material Research** focuses on polymer-based composites.
- **The National Science Foundation Engineering Research Center (NSF ERC) for Revolutionizing Metallic Biomaterials at A&T** now conducts research in the areas of biomedical engineering and nano-bio applications.

## **Guilford Technical Community College (GTCC)**

GTCC provides customized industry-specific workforce training in electronics engineering technology, manufacturing technology, biotechnology and international quality standards to help companies achieve a world-class workforce.

## **Lots of Good News for Business**

We recognize you can locate your business anywhere. Because we very much want you here, we've put out the welcome mat for business.

- State and local incentives, as well as state tax credits (including a credit for R&D), are available to qualifying companies.
- North Carolina is a Right-to-work state. Less than 1% of firms in Guilford County are unionized.
- Low utility costs and excellent power reliability from Duke Energy.
- No inventory tax.
- A nanotechnology business and technology accelerator for start-up companies is available at Quartek Corporation in High Point.

## **Location and Transportation Infrastructure to Support Manufacturing**

Greensboro's rich manufacturing history and central location are assets for advanced manufacturing and materials processing companies.

- Eleven colleges and universities and outstanding community colleges in the Greensboro Region provides a young, well-educated workforce.
- FedExExpress Mid-Atlantic Air Hub occupies a 1-million square-foot facility at Piedmont Triad International Airport. The facility has the capacity to sort 24,000 packages per hour.
- FedEx Ground constructed its new 400,000 square-foot southeast sort facility on a 125-acre site along I-40 in Triad Business Park.
- Major UPS ground facility sorts more than 44,000 packages per hour.
- Greensboro offers one of the largest concentrations of trucking companies and available trailers on the East Coast.
- Outstanding East Coast location, midway between New York and Miami, gets goods to market more efficiently.
- More than half of the U.S. population and most major markets are within 650 miles.
- Easy access to Western Europe via dozens of daily one-stop flights from GSO and non-stop flights from RDU and CLT.

- North Carolina's two deep-water ports (Wilmington, Morehead City) are just 3.5 hours away. Also, Greensboro is proximate to ports in Savannah, Charleston and Norfolk.

**Select Advanced Manufacturing Companies**

<b>Company</b>	<b>Description</b>
Analog Devices	R&D design center for state of the art signal processing integrated circuits
Dow Corning Corporation	Silicon-based technology
Daimler Buses North America	Commercial bus manufacturer
Ecolab	Food safety and cleaning products
Energizer Holdings, Inc. Asheboro, NC	Alkaline batteries, metal parts, and packaging
Evonik Stockhausen, Inc.	Super absorbent polymers global R&D Center, U.S. headquarters for STOKO Skin Care
General Dynamics Corporation	Defense
Gilbarco Veeder-Root	Fuel dispensing equipment, corporate office
High Performance Coatings, Inc./nCoat	Advanced coating technology including nanotech coatings for a variety of industries
Honda Aircraft Company, Inc.	World Headquarters, HondaJet manufacturing, R&D
Honda Aero, Inc. Burlington, NC	Jet engine manufacturing and design
Machine Specialties	Contract machining/metal finishing
Precor, Inc.	Strength equipment manufacturing
Procter & Gamble	Over-the-counter drug and consumer products
Purolator Facet, Inc.	Filtration systems
RFMD	Microchips and integrated circuits; leading provider of power amplifiers for cell phones
Thomas Built Buses High Point, NC	School, commercial, and specialty bus manufacturing
Tyco Electronics	Manufactures electronic components for automotive, commercial vehicle, communication and industrial solutions and products for enterprise networks
The Volvo Group	North American headquarters, R&D