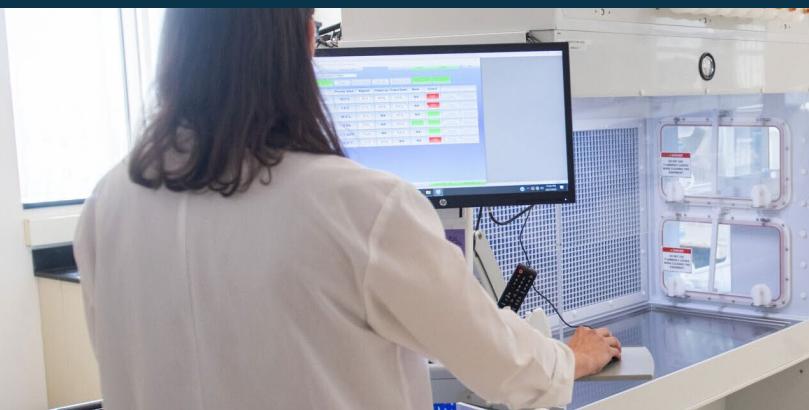


LIFE SCIENCES



18,000

2025 Employment

1,700

Announced Jobs

Employment in life sciences and supplier operations in the Piedmont Triad Region



2 Major Research Parks

5 Research Universities



North Carolina outpacing U.S. in Life Science Growth

Life Sciences Powerhouse

North Carolina

Piedmont Triad: Proximity Matters

- The Piedmont Triad Region's central location within the state's thriving innovation ecosystem has been a boon to developing the life sciences sector here.
- The Piedmont Triad is an hour's drive to the Research Triangle Park (RTP), the largest research park in North America. JLL named the area the #1 hottest spot in the nation for biomanufacturing.
- An hour in the opposite direction is the North Carolina Research Campus (NCRC), a 350-acre scientific community in Kannapolis.



Gateway

Research Park

- Two 75-acre locations.
- Home to the Joint School for Nanoscience & Nanoengineering.
- Partnerships with corporate and educational institutions, allowing access to state-of-the-art equipment and R&D assets.

GREENSBORO, NC

Innovation Quarter

Research Park

- Downtown location with Phase II under development.
- Home to Wake Forest Institute for Regenerative Medicine.
- Mixed-use with corporate, educational, residential, and retail spaces.
- Greenway through the park.

WINSTON-SALEM, NC

Piedmont Triad Life Science Cluster

52%

Employment Growth
2024-2024

34%

Employment in Research,
Testing & Medical Labs

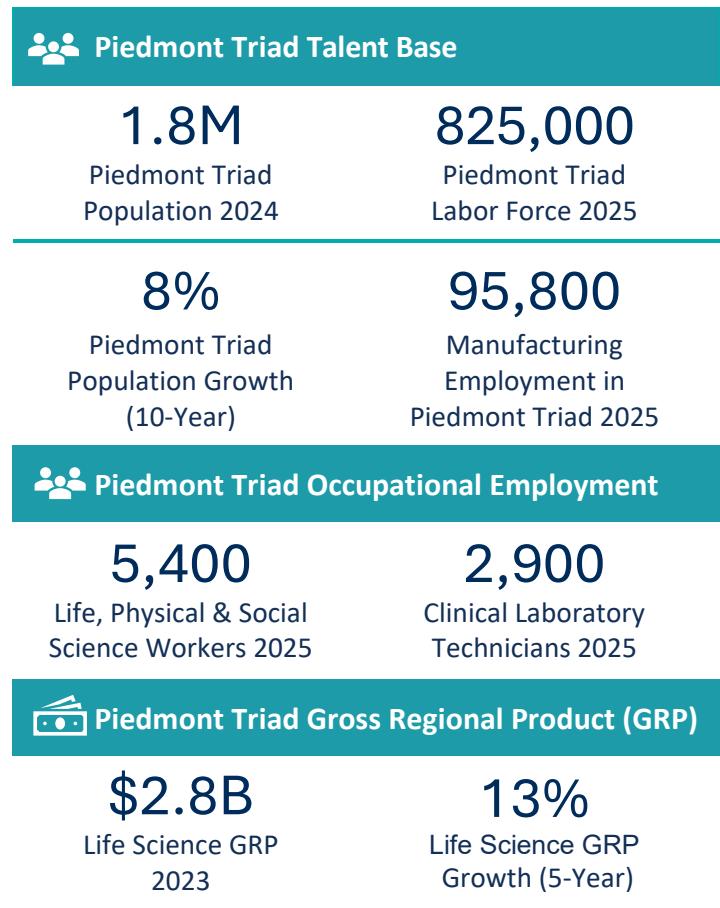
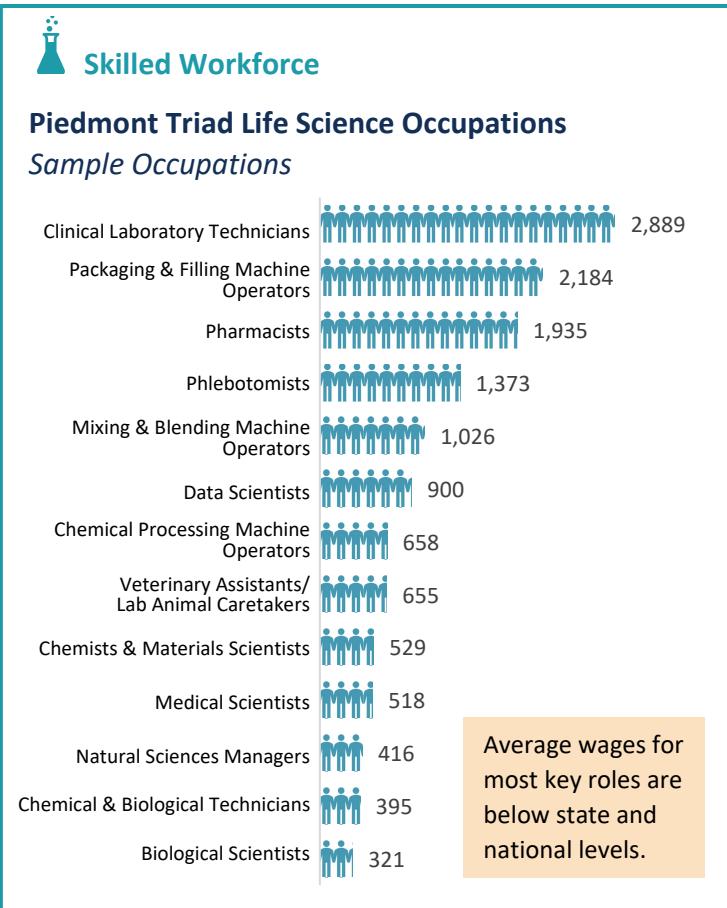
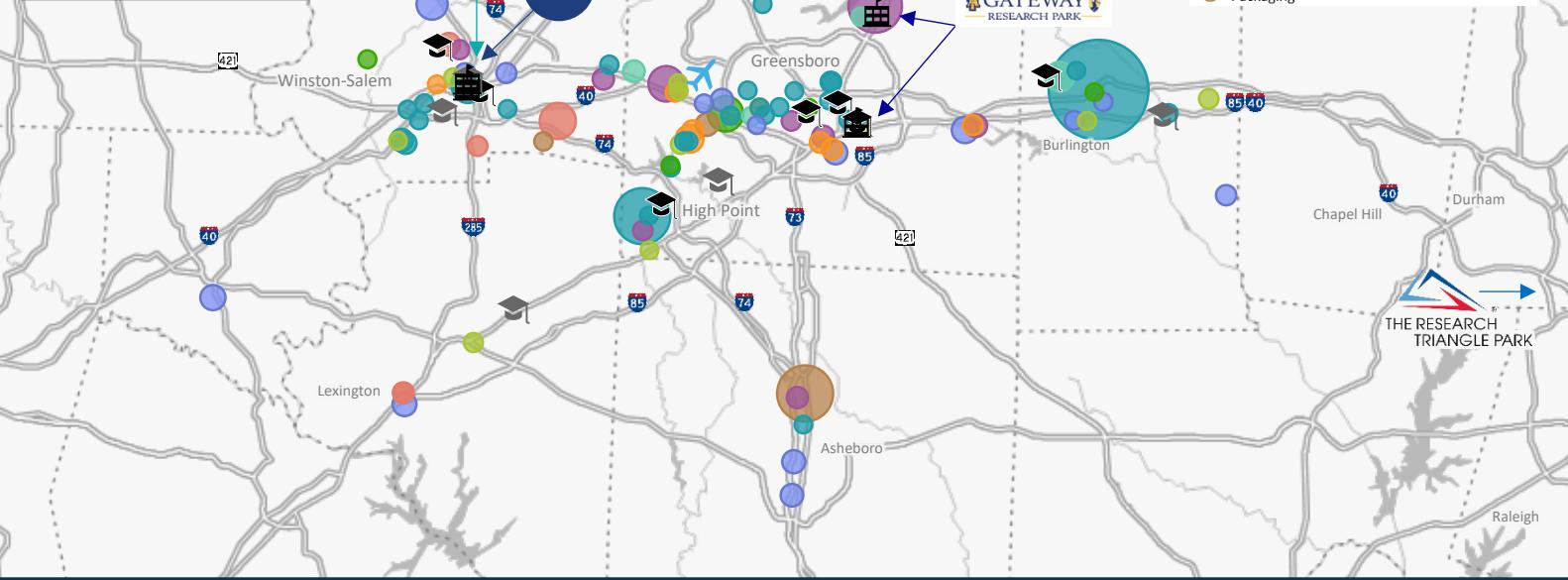
26

Life Science Projects 2019-2025
1,700 jobs + \$820 M

Major Life Science Employers

LabCorp	Burlington
Quest Diagnostics	High Point
Procter & Gamble	Greensboro
Herbalife	Winston-Salem
Syngenta	Greensboro
Ecolab	Greensboro-High Point
Wake Forest Institute for Regenerative Medicine	Winston-Salem
Cook Medical	Winston-Salem
Carolina Biological Supply	Burlington/Greensboro
Thermo Fisher Scientific	High Point
ProKidney	Winston-Salem
Nature's Value Inc.	Winston-Salem
FFF Enterprises	Kernersville
Charter Medical	Winston-Salem
Cambrex Corp.	High Point

Life Science & Related Cluster



Life Science Innovation Ecosystem



Strong Regional Life Science R&D

2

High Spending and
Doctorate Production
R2 Universities

5

Total Research Universities
Spending >\$2.5 M on
Research

\$165 M

Research Dollars from
Federal Funding

\$607 M

3-Year Total for Research
Federal Funding



Growing in the Piedmont Triad

Regenerative Medicine

Wake Forest Institute for Regenerative Medicine (WFIRM)

- International leader in translating scientific discovery into clinical therapies, the first to engineer laboratory-grown organs that were successfully implanted into humans.
- Today a team of 500+ is working to engineer more than 40 different replacement tissues and organs, and to develop healing cell therapies
- Attracts significant research funding and fosters startups to advance the science and grow the industry.



Big Impact, Tiny Particles

Nanoscience

Joint School of Nanoscience and Nanoengineering

- Collaborative institution between NC A&T and UNC Greensboro, fostering innovative research offering M.S. and Ph.D. degrees.
- World-class research infrastructure with labs, cleanrooms, and equipment, including rare assets like the X-ray Photoelectron Spectroscopy (XPS) and nanoimprint lithography.
- National research network integration.

North Carolina Biotechnology Center[®]_{N C}

PIEDMONT TRIAD OFFICE

The North Carolina Biotechnology Center's Piedmont Triad office plays a pivotal role in advancing the region's life sciences ecosystem. The office serves as a strategic hub to link industry, academia, and the public sector to grow biotechnology in the region. The Life Science Intelligence team also offers market research resources at NC Biotech's Piedmont Triad office.

The organization, with the help of a regional advisory committee, shapes strategy and fills regional ecosystem gaps.



Gateway Materials Test Center (GMTC)

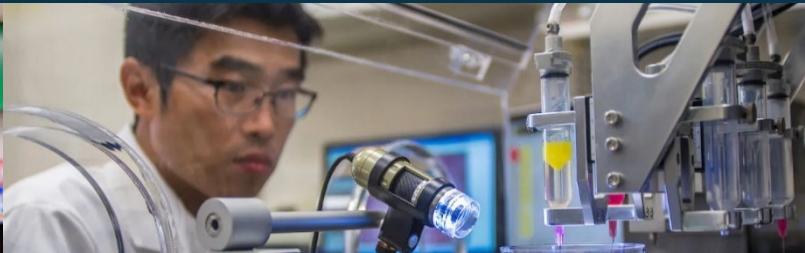
The **Gateway Materials Test Center (GMTC)** was established in response to local industry requests for a testing facility that could perform composite and textile testing. With capabilities spanning a wide range of materials, including the latest fiber-reinforced composites, metals, ceramics, and fibers. The center is one of the most diverse testing facilities in the Southeast U.S., with custom consulting and an ISO 17025 lab.



Regenerative Medicine Engine

The National Science Foundation selected the region as one of 10 inaugural grant recipients to foster R&D in the Piedmont Triad. The \$160 million grant enabled the **Regenerative Medicine Engine**, a dynamic innovation ecosystem that is accelerating the translation of use-inspired research into commercial applications. With multiple institutional partners in the region, the work helps bridge the gap between industry, workforce development, and science.

Life Science Talent Pipeline



Piedmont Triad Regional Educational Assets

18	114,166
Colleges & Universities Piedmont Triad	Total Enrollment 2023
24,600	9,099
Degrees & Certificates Awarded in Region, 2023	Life Science Related Degrees Awarded in Region 2023
800+	3,500
Degrees & Certificates Awarded in Biology, 2023	Degrees & Certificates Awarded in Health Sciences including Pharmacy, 2023

Innovative Life Sciences Training

Collaborative Training

The **Merck Biotechnology Learning Center** is a dynamic collaboration between Merck and North Carolina A&T State University, designed to bridge academic excellence with industry innovation. The 4,025-square-foot facility, located at Gateway Research Park, features advanced biopharmaceutical manufacturing equipment and a fully equipped process laboratory, offering hands-on training that prepares students with cutting-edge best practices.

20 Years of Biotech Training

The **National Center for the Biotechnology Workforce** serves as a national hub for developing a highly skilled biotechnology workforce. Its mission is to connect and align education with the ever-evolving needs of industries such as pharmaceutical production, biomanufacturing, and medical device manufacturing.

Located within Forsyth Tech's campus at the Innovation Quarter, the highly collaborative center features a state-of-the-art Analytical and Molecular Skills Development Laboratory (AMSD) that offers advanced training and internships to students, as well as equipment and bench space rental to small companies and researchers.

Leaders in Research

NC A&T



R2 Institution

- Partner with JSNN and nanotechnology research
- On the cusp of becoming an R1 research school
- Secured more than \$100 million in research and sponsored program contracts in 2024
- The HBCU is the top producer of African American engineers at all levels
- Awarded Engineering Research Center (ERC) funding from NSF, considered the "crown jewel" of NSF awards

Wake Forest University



R2 Institution



- Wake Forest School of Health Sciences and School of Medicine known for research particularly in areas like regenerative medicine and cancer biology.
- Top institution receiving federal funding regionally.
- Wake Forest Clinical and Translational Science Institute provides innovative, efficient, and sustainable research infrastructure.
- Multiple institutes with cutting-edge research including molecular medicine, cancer genetics and cancer research.

Emerging Resource in Life Sciences

High Point University

Pharmacy and health science programs

- School of Pharmacy offers a 6-year Pharm.D. program that integrates biomedical and clinical sciences.
- School of Natural Sciences housing "wow" labs and open-concept collaborative research spaces.
- School of Health Sciences trains students in physical therapy, physician assistant, and other health fields. The Human Biomechanics and Physiology Lab joins athletics and research to further performance and rehabilitation.