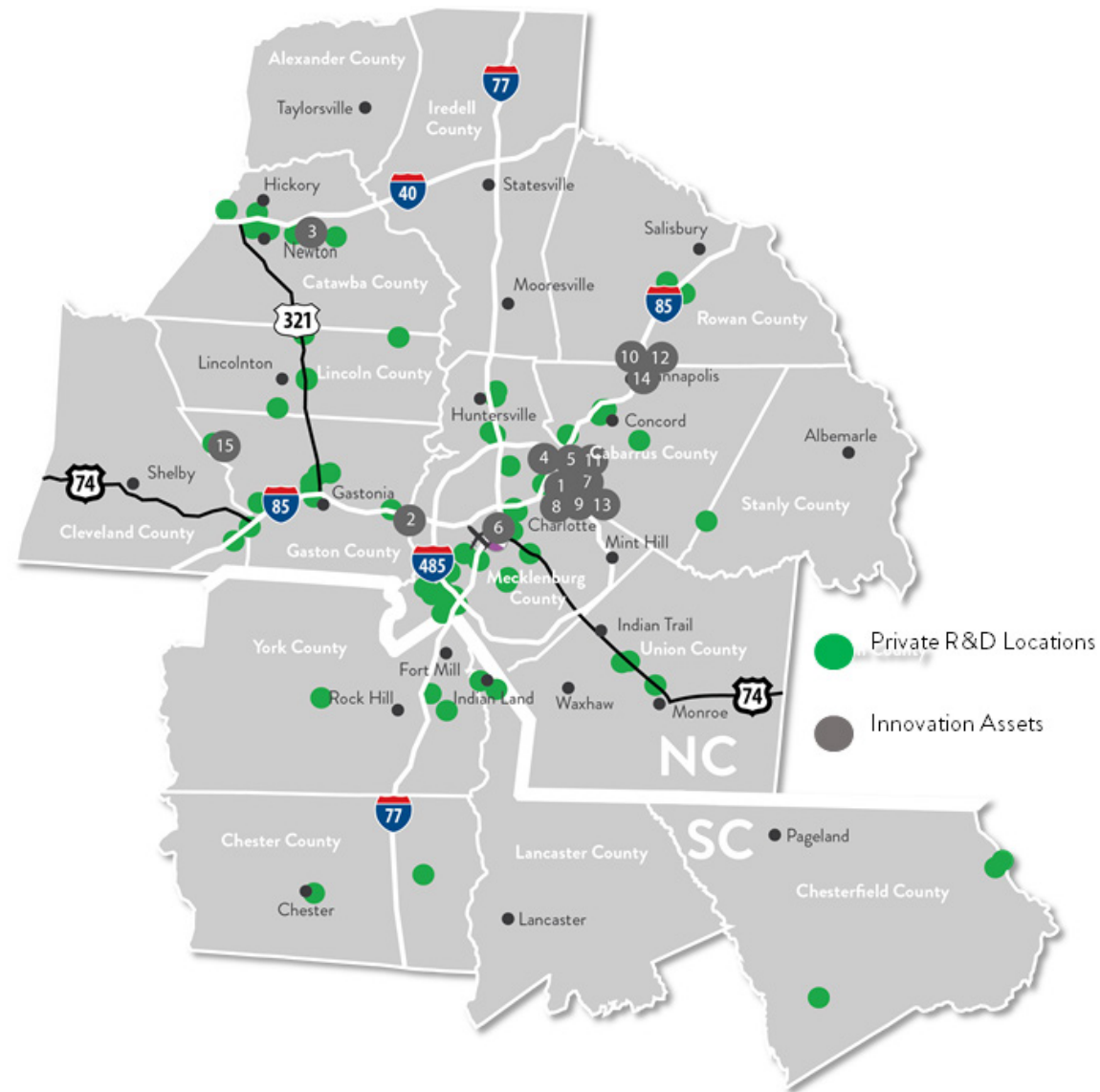


ORGANIZATION NAME	DESCRIPTION	ORGANIZATION NAME	DESCRIPTION
1. Polymers Center	A state-funded non-profit that provides product testing, R&D, and training in the plastics industry. With decades of plastic industry experience on staff, they also have connections to plastic service providers and suppliers in the industry.	9. UNCC Center for Optoelectronics and Optical Communications	University research center partnering with industry through research assistants and on-site collaborative research opportunities; conducts research and fosters technology transfer
2. Textile Technology Center	Applied research center in Gaston County that focuses on product testing, research and development, product prototyping, and training in the textiles industry.	10. NC Research Campus	Research and product development collaboratively between private industry, entrepreneurs and universities for the life sciences industry
3. Manufacturing Solutions Center	Applied research center in Catawba County that focuses on product testing, product development, training; business incubation, marketing services, and engineering services in the textiles industry.	11. UNCC Center for Precision Metrology	University research center that Collaborates with industry for R&D projects to address problems within industrial metrology
4. EPRI	Research & Development for the Energy Industry	12. North Carolina Biotechnology Center	State-funded economic development organization which accelerates life sciences technology-based economic development through innovation, commercialization, education and business growth.
5. EPIC (Energy Production & Infrastructure Center)	Public and Privately financed center at UNCC which conducts R&D and training for the energy industry	13. NC Motorsports and Automotive Research Center	University research center partnering with industry through product development, research, and training the next generation of automotive engineers
6. Joules Accelerator	An energy-focused accelerator which helps guide innovative start-ups to commercialization.	14. NC Food Innovation Lab	State-funded R&D facility which provides a range of customizable services including product research and development, training, pilot plant production, and food industry consulting.
7. Portal at UNCC	Innovation center to spur collaboration among industry and the University of North Carolina at Charlotte which includes lab space ideal for R&D and product development.	15. CLEAR Labs	Research lab run by the private Lithium company Livent, Clear Labs partner Livent scientists with other private sector researchers to innovate within the lithium battery industry
8. E4 Carolinas	Energy industry trade association which convenes, informs and trains the energy leaders of today and tomorrow.		



# ADVANCED MANUFACTURING

Traditionally a textile manufacturing hub, the Charlotte region's manufacturing industry has diversified and advanced. It is now home to over 3,600 manufacturers with growth in advanced manufacturing sectors such as automotive parts, plastics and advanced textiles, machinery manufacturing, and energy manufacturing. The region benefits from a diversified industrial base and workforce; industry and education assets that support the industry; a connected region due to proximity to major markets and infrastructure assets; and a low cost of doing business. These factors have made the Charlotte Region a prime place to expand or relocate manufacturing operations.

Manufacturing employs over 145,000 in the Charlotte region and contributes more than \$24 billion to the regional economy. It is the 3rd largest contributing industry to Gross Regional Product.

Manufacturing is a deeply intertwined part of the Region's identity. Manufacturing is the largest employment sector in 10 of the 15 counties in the Region, and is supported through strong partnerships with the economic development community, community college system, leading apprenticeship programs, and manufacturing industry assets that provide specialized training, R&D, and product testing.

The Region's strengths in manufacturing along with the connectivity of the Charlotte Douglas International Airport have also made the region a destination for FDI in manufacturing. Half of all FDI in the Charlotte Region is in manufacturing and helps contribute to the region's success in the industry.

As the manufacturing industry continues to evolve and advance, the Charlotte Region has continued to build on its storied past. The Region has seen over 3,500 jobs and \$1 billion in capital investment announced since 2020.

**MANUFACTURING IS BOOMING IN THE REGION WITH OVER 3,500 JOBS AND \$1 BILLION IN CAPITAL INVESTMENT ANNOUNCED SINCE 2020**

Source: Charlotte Regional Business Alliance

## ADVANTAGES OF DOING BUSINESS IN CHARLOTTE REGION



### ACCESS

A central location on the U.S. East Coast and the seventh busiest global airport puts the world within Charlotte's reach. 72% of the US population lives within a 2-day trucking time or a two-hour flight, and with more than 750 daily nonstop flights to 175-plus destinations, nowhere is too far away.



### INDUSTRY EXPERTISE

The Charlotte Region has over 145,000 working within the manufacturing industry. The Region has developed strong clusters within Automotive, Advanced Materials, Machinery, and Energy Manufacturing.



### AFFORDABILITY

Business-friendly tax structure in the Carolinas along with the lowest unionization rates in the country provides a low-cost of doing business for manufacturers.



### QUALITY OF LIFE

Charlotte consistently ranks high as a destination city for all ages. About 102 people move to the Charlotte area every day, drawn by career opportunities, diverse living options and a cost of living lower than the national average.

**145,000** MANUFACTURING WORKERS IN THE CHARLOTTE REGION



**ADVANCED MANUFACTURING IS 25% MORE CONCENTRATED IN THE CHARLOTTE REGION THAN THE NATIONAL AVERAGE**

### LARGEST MANUFACTURERS

**DAIMLER**

Regional Employment  
**5,000+**

Sub-Industry  
**Heavy-Duty Truck Manufacturing**

COMPANY	REGIONAL EMPLOYMENT	SUB-INDUSTRY
GKN Driveline	1,000 - 2,500	Automotive Gears and Transmissions
Schaeffler Group	1,000 - 2,500	Automotive Engine Components
Coca-Cola Consolidated	1,000 - 2,500	Beverage Bottling
American Woodmark	1,000 - 2,500	Furniture Manufacturing
Continental Structural Plastics	500 - 999	Composites Manufacturing
GITI Tire	500 - 999	Tire Manufacturing
Mann+Hummel Filtration	500 - 999	Filter Manufacturing
NGK Ceramics	500 - 999	Components for Catalytic Convertors
The Timken Company	500 - 999	Ball and Roller Bearing

Source: Charlotte Regional Business Alliance Data, Business Wise

### TOP MANUFACTURING ANNOUNCEMENTS (2020-2021)



**E&J. Gallo Winery**

Jobs  
**496**

Sub-Industry  
**Winery**

COMPANY	JOBS	SUB-INDUSTRY
Tajji USA	374	Medical Supplies Manufacturing
MaxPax LLC	300	Packaging Manufacturing
Goldenhome International	257	Furniture Manufacturing
Arrival Automotive	250	EV Manufacturing
Doosan Bobcat	250	Industrial Equipment
Arrival Automotive	240	EV Manufacturing
Jeld-Wen	235	Furniture Manufacturing
Prime Beverage Group	231	Beverage Manufacturing
Eastern Wholesale Fence Co Inc	142	Fence Manufacturing

Source: Charlotte Regional Business Alliance

### LARGEST 15 PRODUCTION OCCUPATIONS

OCCUPATION	2020 REGIONAL EMPLOYMENT	MEDIAN HOURLY EARNINGS	2020 LOCATION QUOTIENT
Misc. Assemblers & Fabricators	17,684	\$15.51	1.45
First-Line Supervisors of Production and Operating Workers	6,872	\$28.57	1.20
Inspectors, Testers, Sorters, Samplers, and Weighers	6,172	\$17.58	1.17
Welders, Cutters, Solderers, and Brazers	4,337	\$19.99	1.16
Packaging and Filling Machine Operators and Tenders	4,270	\$14.07	1.19
Helpers--Production Workers	3,883	\$13.99	1.70
Machinists	3,807	\$20.51	1.12
Sewing Machine Operators	3,083	\$14.52	2.72
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	2,649	\$19.22	1.76
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	2,336	\$17.31	0.84
Mixing and Blending Machine Setters, Operators, and Tenders	2,248	\$17.99	2.00
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	2,217	\$12.68	8.23
Upholsterers	2,186	\$21.91	8.19
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	2,118	\$16.85	1.21
Paper Goods Machine Setters, Operators, and Tenders	1,778	\$20.01	1.86

Source: EMSI, 2020

THERE ARE MORE THAN **3,600** MANUFACTURERS LOCATED IN THE CHARLOTTE REGION

**\$24 BILLION GRP**  
**3RD LARGEST INDUSTRY**  
IN THE CHARLOTTE REGION

Source: EMSI, 2020