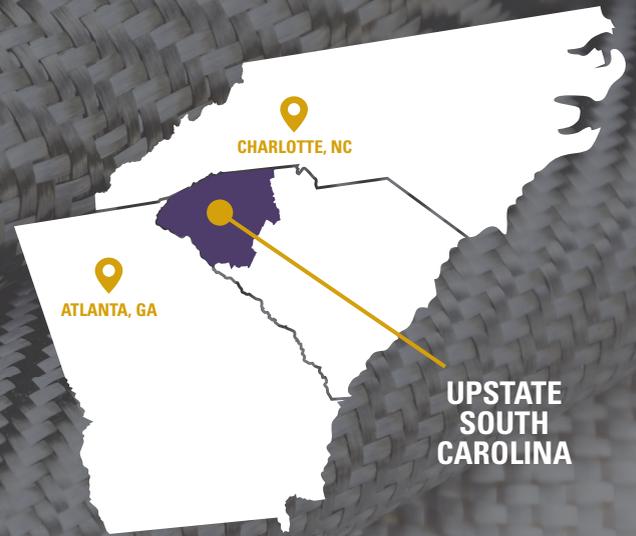




UpstateSCAlliance



ENGINEERED MATERIALS

Lighter. Stronger. Faster.

Advanced materials research and manufacturing has deep roots in Upstate South Carolina. Building upon its rich history in textiles, the Upstate's advanced materials cluster has grown to 883 businesses, with 40,384 employees, which is 84% higher than the national average.

Upstate businesses are engineering materials that are solving industry challenges and producing materials for some of the world's most complex products — innovations now found in Boeing's 787 Dreamliner to BMW's X models. From surfboards to circuit boards, Upstate companies are making materials that are lighter, stronger, and faster.



54

engineered materials companies announced new locations in the Upstate in the last 5 years



\$3.9B

in capital investment has been announced by companies focusing on engineered materials in the last 5 years

COMPOSITES

PLASTICS

TECHNICAL TEXTILES

OPTICS

METALS

CHEMICALS

CERAMICS

FUELING THE CLUSTER

More than 14,000 Upstate resident inventors have registered U.S. patents since 2000. From advancing optical connectivity to pioneering bioresorbables to lightweighting solutions for the automotive and aerospace industries, innovation and engineering are fueling the advanced materials cluster in the Upstate. And, our local research institutions are driving factors for continued advancement as they partner with Upstate companies to support innovative research and engineering that propel industry forward.

ADVANCED MATERIALS RESEARCH LABORATORY

Clemson's Advanced Materials Research Laboratory (AMRL), a state-of-the-art facility, houses internationally recognized research programs in optoelectronics, chemistry and materials science.

Available resources include:

- Electron Microscopy Laboratories
- Optical fiber drawing capabilities
- Laser & chemical laboratories
- Class 100 clean rooms & instrumentation facilities



MCNAIR CENTER

University of South Carolina's Center for Aerospace Innovation and Research supports industry through aerospace education, research leadership and industry advancement.

Core research areas:

- Steered fiber non-conventional laminate design
- Automated novel structural composite part production
- Multi-disciplinary design optimization of composite (aircraft) structures
- Automated, fusion based assembly



UNIVERSITY OF SOUTH CAROLINA

UPSTATE SOUTH CAROLINA

Globally connected. Globally competitive.

The Upstate is home to some of the world's most forward-thinking companies, including world leaders in the development and application of cutting edge technologies across a multitude of industries. The 10-county region provides unmatched quality of life to its 1.4 million residents, while connecting two of the largest cities in the Southeastern United States: Charlotte and Atlanta.

The Upstate's transportation infrastructure connects businesses and consumers by air, rail and interstate with access to the most productive and efficient port on the east coast. Our strategic location and ability to move goods and people makes the Upstate an ideal location for companies launching new operations, service offices, distribution centers or engineering and manufacturing facilities.



SOUTH CAROLINA HAS
**3RD LOWEST INDUSTRIAL
POWER COSTS ON EAST COAST**



UPSTATE SOUTH CAROLINA
IS HOME TO MORE THAN
466 INTERNATIONAL COMPANIES



UPSTATE SOUTH CAROLINA HAS
**2ND HIGHEST CONCENTRATION
OF INDUSTRIAL ENGINEERS
IN THE NATION**



We have been leveraging research and development to expand the carbon fiber business in the aircraft and automotive fields. Through this process, we looked at multiple locations, but ultimately with the support of local and state government officials, we chose Greenwood as the ideal location for our new U.S. carbon fiber facility.



YUKITO MIYAJIMA

President, Teijin Carbon Fibers, Inc.

LARGEST ENGINEERED MATERIALS ANNOUNCEMENTS *in last 5 years*

COMPANY	CAPITAL INVESTMENT	JOBS
Toray Industries Inc.	\$1,000,000,000	500
Teijin Ltd.	\$600,000,000	220
Inteplast Group	\$70,000,000	100
Minghua USA	\$45,000,000	150
Cold Mountain Material Corporation	\$24,000,000	109
Baxter Enterprises, Hi-Tech Mold & Engineering	\$20,700,000	87
CRR Carbon Resources Recovery SC LLC	\$20,000,000	30
Mogul SC Nonwovens Corporation	\$17,800,000	38
Crown Casting Industries	\$16,000,000	50
Proper Polymer	\$15,450,000	87
Solar Atmospheres	\$15,000,000	11
Con-Pearl North America	\$14,250,000	51

UPSTATE LEADERS IN ENGINEERED MATERIALS



CONNECT WITH US

The Upstate SC Alliance is a public/private regional economic development organization designed to market and promote the Upstate SC Region to the world. Let our Business Recruitment Team assist your company in finding the perfect location, gathering critical market intelligence and making business connections.

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