We help you get from molecule to market.
Partner with the leading textile college in the world.

NC State University’s College of Textiles produces more textile graduates per year than any other university in the United States.

Our partnerships with industry in research, internships and collaborations offer our students hands-on experience before they graduate and allows our faculty to work on cutting-edge research.

The College of Textiles was instrumental in the creation of the new world of textiles, and we continue to lead the way in basic sciences, applied sciences, engineering and technology transfer, fueling economic development in a wide range of areas related to the textile industry.

The college houses two academic departments: Textile Engineering, Chemistry and Science; and Textile and Apparel, Technology and Management. It is also the home of four major centers and institutes: the Textile Protection and Comfort Center, the Nonwovens Institute, the Institute of Textile Technology and the Forensic Sciences Institute.

The College of Textiles complex occupies 300,000 square feet of research and teaching space on NC State’s world-renowned Centennial Campus, home to many corporate, governmental and nonprofit agencies that collaborate with the university. Centennial Campus was named Research Science Park of the Year in 2007 by the Association of University Research Parks.

As an interior textile designer with an art background, I used to concentrate on the aesthetics of design, making things beautiful. Learning about the technology involved in making textiles has awakened me to the fact that design can achieve more than sensory effects. My knowledge of textile technology is now one of my tools for creativity. I can create textiles that meet the needs of real consumers in pragmatic, problem-solving ways. I’ve learned a great deal from the NC State College of Textiles, and I hope to come back to learn more.

Iris Wang
Vice President, Design and Marketing
Brentano Fabrics
Locally responsive. Globally engaged.

The College of Textiles was founded to support the textile industry in our state. We also have a long, distinguished history of partnership with the global textile industry. The college has always integrated economic development, engagement and outreach with education and research.

Our extensive facilities offer testing, analysis, fabrication and product development capabilities. The college’s faculty can enter into agreements to participate in additional research and development activities.

Department of Textile and Apparel, Technology and Management
www.tx.ncsu.edu/tatm/tatm-research
Composite Core Facility Manufacturing Lab
Composite Core Testing and Evaluation Lab
Digital Design Studio
Fashion CAD Studio
Fashion Critique/Photography Studio
Fashion Processing Studio
Fashion Senior Studio
Fashion Specialty Machines
Fashion Studio
Surface Design Studio
TATM Advanced Testing Lab
Textile Design Prototyping Studio
Textile Management Sciences Lab
Textile Technology and Filament Lab

TexLabs
www.tx.ncsu.edu/texlabs
Dyeing and Finishing Lab
Knitting Lab
Physical Testing Lab
Short Staple Spinning Lab
Weaving Lab

Textile Protection and Comfort Center
www.tx.ncsu.edu/tpacc
Chemical Labs
Comfort and Human Performance Labs
Haptics and Moisture Management Labs
Heat and Flame Protection Labs

Department of Textile Engineering, Chemistry and Science
www.tx.ncsu.edu/tecs/research/
labs-and-testing-facilities
Analytical Services Lab
APJeT Atmospheric Pressure Plasma Lab
Instrumentation and Controls Lab
Medical Textiles Labs
Molecular Modeling Lab
Nanocomposite and Structures Lab
Nanofiber Energy Lab

To protect with comfort.

The Textile Protection and Comfort Center (TPACC) is the only academic center in the United States that incorporates in one location the capabilities to research, test and evaluate the comfort and protective performance of textile materials, garments and ensemble systems. TPACC — a world leader in laboratory-based instrumented systems — is housed in a $22 million facility, with equipment devoted to analysis of heat and flame protection, chemical resistance and comfort performance.

To learn more about TPACC’s groundbreaking research, visit
www.tx.ncsu.edu/tpacc

The Textile Protection and Comfort Center has world-class clothing comfort laboratory facilities that are staffed by helpful, knowledgeable professionals. We often look to TPACC for testing to support development of our high-tech sports and outdoor apparel products.

Kyle Blakely
Materials Development Senior Manager
Under Armour

To learn more about partnering with us on research projects, visit
www.tx.ncsu.edu/research
Your next generation of textile leadership begins here.

Our students are educated in an environment where they are exposed to the best textile facilities in the country. They learn in the classroom, in the lab, through leadership activities, in study-abroad programs and by conducting research projects alongside faculty.

The College of Textiles offers undergraduate degrees in textile engineering, polymer and color chemistry, fashion and textile management, textile technology and fashion and textile design. We offer master of science and master of textiles degrees as well as doctorate degrees in textile technology management and fiber and polymer science. Students can also earn a graduate certificate in nonwovens.

Our students have the opportunity to gain real-life work experience through internships and cooperative education so they can hit the ground running when they graduate from the NC State University College of Textiles.

Engineering the future of fabrics.

The Nonwovens Institute (NWI), the world’s first accredited academic program for the interdisciplinary study of engineered fabrics, serves the nonwovens industry through fundamental research and an active program of technology transfer. The NWI works with 27 faculty across NC State and supports 38 graduate students. The institute is home to the Nonwovens Cooperative Research Center (NCRC), the largest industry/university cooperative research center in the nation. The NCRC has 66 member companies and worked with more than 200 companies last year. The NCRC works to create enabling technologies that support members’ research and development efforts to craft next-generation fiber-based materials and products. The NWI’s pilot-testing facilities are valued at $30 million.

To learn more about the Nonwovens Institute, visit www.thenonwovensinstitute.com

The Nonwovens Institute is a model for industrial and academic cooperation. Having the partner’s world-class pilot facilities lab in the state of North Carolina enhances the state’s attractiveness as a site for new and expanded operations. As the Nonwovens Institute has grown, it has brought together representatives from all parts of the nonwovens supply chain as well as research partnerships from other leading academic research institutes, making the industrial advisory board meetings must-attend events.

Bob Dale
Senior VP, Research and Development
PGI
Beyond the campus and beyond your imagination.

Extension
The Zeis Textile Extension Education for Economic Development (TexED) department serves a wide array of customers with continuing education opportunities, including seminars, conferences and executive education courses taught by TexED extension specialists, College of Textiles faculty and industry representatives. Lean Six Sigma Green Belt, Black Belt and Master Black Belt certifications are offered in addition to courses that cover all aspects of textile processing, from fiber to finished product. Most courses are taught at the College of Textiles on NC State’s Centennial Campus in Raleigh, where we enhance the lecture experience by integrating lab activities into our programs and providing hands-on training in our state-of-the-art lab facilities. Customized Textile Technology courses are also developed for companies and presented at the company location. TexLabs, which encompasses a diverse collection of dyeing and finishing, staple yarn spinning, knitting, weaving and physical testing equipment, offers a myriad of capabilities to our clients. Our faculty, staff and extension specialists support industry and academic projects and provide an extensive knowledge base for prototype development, material evaluation, process development and evaluation, pilot production, and analytical services.
www.tx.ncsu.edu/departments/texed

Career Services
The College of Textiles has its own Career Services office that industry representatives can use to interview our students. We prepare our students well for the workplace, not only through their in-class education but also through the education they receive outside the classroom from internships, study-abroad opportunities, club activities and leadership experiences. We think this is why our career placement rates have averaged 90 to 95 percent over the past 20 years. Our students graduate prepared for any number of careers, including process engineering, materials management, forensics, chemistry, technical design, creative design, sales, marketing, retail management, fabric technology, supply chain management, production management, advertising, quality control, merchandising and many more. Tell us how we can help you find the right person to fill a position in your company.
www.tx.ncsu.edu/community/career-services

Textiles Online Program
Are you interested in advancing your education? Do you have an employee who is? The Textiles Online Program (TOP) of the College of Textiles is the oldest online distance education program at NC State. TOP offers undergraduate courses, a master of textiles, a master of science in textile chemistry, a graduate certificate in nonwovens science and technology and specialized certificates in fabric manufacturing and textile fundamentals. Students who complete our online programs have the same learning outcomes as our on-campus students as well as a degree or certificate that can catapult their career to the next level.
www.tx.ncsu.edu/academics/distance-education

Engage our experts.
The College of Textiles has two academic departments: Textile Engineering, Chemistry and Science, and Textile and Apparel, Technology and Management. The faculty and students in these departments partner with industry on a daily basis in such activities as research and development, testing and analysis, student competitions, internships and cooperative education.
Throughout the College of Textiles, faculty constantly engage students in projects involving industry partners. The college’s connections to industry give our students insights they could not receive anywhere else.

To learn more, visit
www.tx.ncsu.edu/tatm/tatm-research
www.tx.ncsu.edu/tecs/research

Textile Engineering, Chemistry and Science is a unique interdisciplinary department dedicated to providing instruction in the science, engineering and technical application of chemistry, color, polymers, biomedicals, design and production related to fibers and fiber-based materials.
Our Textile and Apparel, Technology and Management department faculty are teaching the next generation of students that creativity and science go hand in hand. Faculty and students work with major players in the fashion, retail and textile industries on projects related to design, marketing, merchandising, supply chain, product management and technical design.
How can we work with you to achieve your company’s goals?

The College of Textiles is ready to help you.

Education, research and outreach are critical components of our mission. Economic development, engagement and extension have always been integrally coupled with our research and teaching. The College of Textiles was founded to support the textile industry, and we have a long and distinguished history of partnership with the textile industry not only in North Carolina but throughout the region, across the nation and around the world. We have become leaders in the creation of the new world of textiles, and we are excited about the opportunity to work with you.

Please contact us to arrange a visit and a tour of our facilities. We’ll connect you with the right faculty or staff to meet your needs. We look forward to hearing from you.

I am a quality assurance technician for a textile division in a medical company. When I applied for my position, I had a quality control and color matching background but no experience or education in textiles.

My employer asked me to attend a textile fundamentals training course that NC State textile professors taught through the TexED Center. I received so much information in that class and enjoyed it so much that I wanted to learn more, so I took four more courses and received my textile technology certification. I use things I learned from those courses on a daily basis, and my education gives me a lot more confidence in the everyday decisions I have to make as a quality control technician. I highly recommend these programs to anybody who wants to learn about textiles and gain hands-on experience.

Ralph Oskwarek
Quality Assurance Technician
Medline Industries