Textile Engineering

The Master of Science in Textile Engineering (https://textiles.ncsu.edu/ academics/graduate-programs/textile-engineering/) program trains students to apply engineering principles to the design, production and testing of fiber and polymer-based materials, textiles and related materials. Students focus on enhancing their understanding of structures, production processes and development related to these materials and products. We offer a thesis and non-thesis option of this program. The non-thesis option can be completed entirely online (https://onlinedistance.ncsu.edu/program/textile-engineering/).

Thesis research has focused on the areas of:

- Biomedical textiles.
- · Textile composites.
- Nonwovens.
- E-textiles and smart fibers/fabrics.
- · New fibers: sensors, actuators and energy storage.
- Sustainability in materials and processes.
- Flexibility, durability and comfort of textiles for activewear applications.
- Personal Protective Equipment (PPE) for firefighters, military and more.
- Product testing and quality control.
- Supply chain optimization.

Students enrolled in this master's program often pursue a double major in statistics, biomedical engineering, industrial engineering or materials science.

The Master of Science in Textile Engineering overlaps with studies in materials science and chemistry, meaning graduates may research and develop solutions for the integration of chemistry and materials science.

More Information

Textile Engineering Program Website (https://textiles.ncsu.edu/ academics/graduate-programs/textile-engineering/)

Applicant Information

- Delivery Method: On-Campus, Online, Hybrid
- Entrance Exam: None
- Interview Required: None

Application Deadlines

- Fall: March 1 (International): June 25 (U.S.)
- Spring: July 15 (International); November 25 (U.S.)

Degrees

- Textile Engineering (MS) (http://catalog.ncsu.edu/graduate/textiles/ textile-engineering/textile-engineering-ms/)
- Textile Engineering (Minor) (http://catalog.ncsu.edu/graduate/textiles/ textile-engineering/textile-engineering-minor/)
- Textile Supply Chain Management (Certificate) (http:// catalog.ncsu.edu/graduate/textiles/textile-engineering/textile-supplychain-management-certificate/)

Faculty

Full Professor

Roger Barker

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Assistant Professors

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2 Textile Engineering

- Md Abdul Quddus
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- Rong Yin
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Research Faculty

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