

# Supporting the Textile Industry

Textile Testing and Product Development Resources

October 2019



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## The Textile Technology Center

- The TTC has served the Textile Industry for over 75 years!
- **Mission:** Supporting the Textile Industry Worldwide by identifying current trends, threats and opportunities that challenge our trade and offering innovative solutions and resources .



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## Who are we?

- 425 Active Customers
- Serving 34 states and 7 Foreign countries during 2018!
- Over 820 + years of combined Specialist Experience



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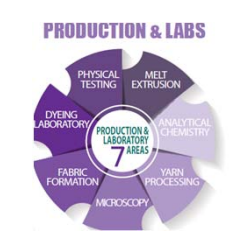
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### PRODUCTION & LABS



## Resources

With state-of-the-art equipment and a talented staff, the Textile Technology Center provides quick and cost effective solutions to fiber producers, textile and apparel producers, small businesses and more!

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## Melt Extrusion

- ❑ Specialist in this area have a combined total of over 100 years of experience
- ❑ Capable of producing polyester chip for extrusion
- ❑ Can produce continuous filament or staple fiber
- ❑ Texturing services available



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## Yarn Processing

- ❑ Technicians have a combined total of over 100 years of experience
- ❑ Small quantities of fiber needed for trial work
- ❑ Non production , long staple and short staple carding available
- ❑ Ring Spinning, Open End Spinning, Air Jet/Vortex Spinning available
- ❑ With additional consultation, specialists are able to process some hemp fiber and recyclable fiber



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### Fabric Formation

- ❑ Technicians have over 40 years of weaving experience
- ❑ Capable of working with fine deniers up to heavy denier yarns
- ❑ Narrow width sample weaving capabilities available
- ❑ Full width woven fabric available



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### Dye Laboratory

- ❑ Technicians have over 65 combined years of textile experience
- ❑ Specializes in:
  - ❑ Dyeability/Quality Checks
  - ❑ Research and development of new fibers
  - ❑ Problem-solving
  - ❑ Shade Development



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### Microscopy & Defect Analysis

- ❑ Technicians have over 70 years of combined experience in textiles
- ❑ Specializes in problem solving
- ❑ Services are available in the following areas:
  - ❑ Contamination testing
  - ❑ Defect analysis
  - ❑ Reverse engineering
  - ❑ Failure analysis
  - ❑ General microscopy



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## Physical Testing

- Technicians have over 40 years of combined textile testing experience
- Tests according to the ASTM/AATCC Standards
- Available testing:
  - Fiber
  - Yarn
  - Fabric



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## Analytical Chemistry

- Technicians have over 50 combined years of textile chemistry experience
- Fully-functional analytical chemistry lab
- Offers ICP, FT-IR, DSC, UV-Vis, GC, GC/MS, and wet chemistry testing



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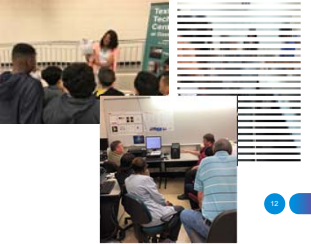
## Training Initiative

Then



NC VOCATIONAL TEXTILE SCHOOL YARN MANUFACTURING CLASS 1911  
BEAUMONT NORTH CAROLINA

Now



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### Customizable Training Options



**TRAINING**  
The Textile Technology Center administers the North Carolina Textile Training Initiative, developing technical training programs in response to textile industry needs.

**585 TRAINEES**  
IN 2018

- Textile 101 Seminars – August 26, October 16, December 4
- NEW! Mill Management Class – October 9 – 10 (Conducted by Rieter America)
- NEW! Important Manufacturing Metrics and Procedures to Improve Yarn Quality – October 23 – 24 (Len Furlough)
- USTER Evenness and Spectrogram Diagnostics – Nov. 19 – 20, Dec. 4 (Raul Thomas)
- American Dornier Weaving Classes: Rapier, Air Jet, Electronics (Dates attached)

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### THANK YOU!



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