

Supporting the Textile Industry

Textile Testing and Product Development Resources

October 2019



1

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 .



2

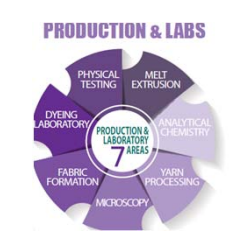
Who are we?

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



3

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!

4

4

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




5

5

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




6

6

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



7

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



8

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



9

Physical Testing


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



10

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



11

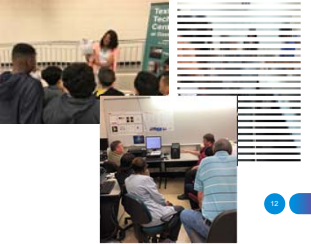
Training Initiative

Then



NC VOCATIONAL TEXTILE SCHOOL YARN MANUFACTURING CLASS 1911
BEAUMONT NORTH CAROLINA

Now



12

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)

13

THANK YOU!



Sam Buff & Jasmine Cox

Phone:
704-825-3737

Email:
Buff.sam@gaston.edu
Cox.jasmine@gaston.edu

14
