The Ph.D. in Textile Technology Management program is designed to educate students for research and management careers in textile technology management in the fiber, textile, apparel, retail and related industries complex, as well as for positions in government and academe.

Numerous competitive challenges are facing the global textile complex. There is a need for industry and government leaders who can provide knowledge of products, processes and business strategies to effectively position companies to compete in this global marketplace. The Ph.D. in Textile Technology Management program is designed to educate students for research and management careers in textile technology management in the fiber, textile, apparel, retail and related industries complex, as well as for positions in government and academe.

The graduates of this program are expected to play several roles in industry, government, and other institutions, including:

1. Carrying out research on issues that relate to the technologies of design, characterization, and manufacture of fibers and fibrous products, management of production and sourcing activities, marketing and distribution of products, international trade, and information requirements. The plethora of raw materials and product specific technologies extant in the industry coupled with the rapid rate at which these technologies are changing challenge students in the program to be innovative in approaches to product development, processes, and strategic business practices. Graduates assume positions in the industry with prime responsibilities for developing policy alternatives for strategic and long range planning.

2. Contributing to the teaching and research in institutions concerned with fiber, textile, apparel, and retail programs.

3. Developing policies at the highest level where broad technical and managerial expertise is required to ensure proper decision-making.

The educational objectives of the TTM Ph.D. program are two-fold:

1. To prepare managers for the research and technological enterprises within the fiber, textile, apparel, retail and related industries. To achieve this objective, the programs of study will be designed for each student to acquire and integrate knowledge of the materials and technologies used in the industrial complex by applying those quantitative, qualitative, and analytical techniques of management that would be most useful for their career goals.

2. To prepare graduates to be faculty members in the numerous international colleges and universities.

**Admission Requirements**

Students with a Master of Science (M.S.) degree in a related field may apply to the Textile Technology Management program. Typically the minimum acceptable overall grade point average (GPA) is a 3.0 out of 4.0, based on most current U.S. universities. Students without a master’s degree may also apply if met the following conditions:

1. the undergraduate degree from a well-known and robust research active program with a cumulative GPA of 3.5 or above;
2. strong recommendation letters from faculty adviser(s) indicating research experience or suggesting research potential; and
3. strong publication record/experience or extensive industry experience in related industry/profession.

Applicants should plan to take the GRE or GMAT examination, which is required for all applicants. The GRE/GMAT scores should be sent to NC State University electronically and be available online.

For International students, TOEFL or IELTS is required for the application. Students must rank in a competitive percentile in order to be considered for acceptance into NC State University and our department.

- TOEFL: A total score of 80+ on IBT. Minimum scores of 18 points for each section; or
- IELTS: An overall band score of 6.5+. Minimum scores of 6.5 points for each section

**Scholarships and Assistantships**

Competitive scholarships and assistantships from the program as well as the University are available to incoming new students. All incoming students will be considered for the funding opportunities. No separate application for assistantships/scholarships is needed.

**Degrees**

- Textile Technology Management (PhD) [http://catalog.ncsu.edu/graduate/textiles/textile-technology-management/textile-technology-management-phd/]

**Full Professors**

Roger Barker
Keith Beck
Timothy Clapp
Ahmed Mohamed El-Shafei
Shu-Cherng Fang
Harold Freeman
Tushar Ghosh
A. Blanton Godfrey
Russell Gorga
Maureen Grasso
Robert Handfield
Peter Hauser
David Hinks
Cynthia Istook
Warren Jasper
Byoungho Jin
Jeffrey Joines
Martin King
Russell King
Traci Lamar
Karen Leonas
Trevor Little
Marquerite Moore
Melissa Pasquinelli
Behnam Pourdeyhimi
Michael Rappa
Jon Rust
Abdel-fattah Mohamed Seyam
Renzo Shamey
Yingjiao Xu

Associate Professors
Katherine Emma Annett-Hitchcock
Pamela Banks-Lee
Kristin Barletta
Philip Bradford
Emiel DenHartog
Wei Gao
Helmut Hergeth
George Hodge
Richard Kotek
Wendy Krause
Jerome Lavelle
Lisa Parrillo-Chapman
Lori Rothenberg
Sonja Salmon
Minyoung Suh
Andre West

Assistant Professors
Xiaomeng Fang
Ericka Ford
Jessica Gluck
Delisia Matthews
Robert Ormond
Jane Porterfield
Elizabeth Powell
Eunkyoung Shim
Januka Budhathoki Uprety
Jamie Woodbridge
Rong Yin
Mengmeng Zhu

Practice/Research/Teaching Professors
Nagendra Anantharamaiah
Genevieve Garland
Hechmi Hamouda
Cassandra Kwon
Benoit Maze
Henry Nuttle

Emeritus Faculty
Robert Barnhardt
Subhash Batra
Stephen Chapman
Robert Donaldson
Aly El-Shiekh
Perry Grady
Bhupender Gupta
Thom Hodgson
Stephen Margolis
John McCreery
Stephen Michielsen
Gary Mock
Mansour Mohamed
William Oxenham
Nancy Powell
Carl Smith
Gary Smith
Moon Won Suh
Charles Tomasino
James Wilson
Samuel Winchester

Adjunct Faculty
Genevieve Garland
Abhay Sham Joljode
Mohamad Samir Midani
Samuel Moore
Behnam Pourdeyhimi
Antony J. Williams
Julie Ann Willoughby
Bong-Yeol Yeom