Fiber and Polymer Science

The Ph.D. in Fiber and Polymer Science (https://textiles.ncsu.edu/academics/graduate-programs/fiber-and-polymer-science/) brings together the disciplines of mathematics, chemistry, physics and engineering for the development of the independent scholars versed in the fields of polymer, fiber and textile science.

Due to the interdisciplinary nature of textiles, students pursuing a Ph.D. in fiber and polymer science research a nearly unlimited range of STEM topics, including:

- · Polymer science
- Fiber science
- Forensics
- Textile chemistry
- · Dyeing and finishing
- · Medical textiles
- Nanotechnology
- Nonwovens
- · Functional textiles
- · Smart textiles
- Sustainability

Graduates of this multidisciplinary program go on to successful careers in academia, government and industry.

Scholarships and Assistantships

Competitive scholarships and assistantships from the program, as well as from 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.

More Information

Fiber and Polymer Science Program Website (https://textiles.ncsu.edu/academics/graduate/fiber-and-polymer-science/)

Admission Requirements

Students with a Master of Science (M.S.) degree in a related field may apply to the Fiber and Polymer Science 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:

- the undergraduate degree from a well-known and robust research active program with a cumulative GPA of 3.5 or above;
- strong recommendation letters from faculty adviser(s) indicating research experience or suggesting research potential; and
- 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.

- 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

Applicant Information

• Delivery Method: On-Campus

Entrance Exam: GRE
Interview Required: None

Application Deadlines

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

Degrees

- Fiber and Polymer Science (PhD) (http://catalog.ncsu.edu/graduate/ textiles/fiber-polymer-science/fiber-polymer-science-phd/)
- Fiber and Polymer Sciences (Minor) (http://catalog.ncsu.edu/ graduate/textiles/fiber-polymer-science/fiber-polymer-science-minor/)

Faculty

Full Professors

Harald Ade

Roger L. Barker

Philip Bradford

Lisa Chapman

Emiel DenHartog

Ahmed El-Shafei

Peter Fedkiw

Jan Genzer

Tushar Ghosh

Warren Jasper

Jeff Joines

Saad A. Khan

Martin King

Traci Lamar

Jerome Lavelle

Karen Leonas

Lucian Lucia

Roger Narayan

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Lokendra Pai

Melissa Pasquinelli

Behnam Pourdeyhimi

Abdel-Fattah Seyam

Renzo Shamey

Richard Spontak

Hooman Tafreshi

Kristin Thoney-Barletta

Richard Venditti

Nelson Vinueza

Yingjiao Xu

Xiangwu Zhang

Associate Professors

Ericka Ford

Wei Gao

Wendy E. Krause

Shuang Lim

Kavita Mathur

Bryan Ormond

Sonja Salmon

Eunkyoung Shim

Minyoung Suh

Assistant Professors

Januka Budhathoki-Uprety

Xiaomeng Fang

Jessica Gluck

Amanda Mills

Md Abdul Quddus

Tom Schroeder

Tova Williams

Rong Yin

Yang Zhang

Mengmeng Zhu