

POLYMER PROGRAM

QUICK FACTS

» Concentrations

- Polymer Science

» Degrees Offered

- Ph.D.
- M.S.

» Graduates Advised by Polymer Faculty

87 Students

- 80 Ph.D.
- 7 M.S.

» Faculty

18 Faculty members from
the following departments:

- Biomedical Engineering (1)
- Chemical & Biomolecular Engineering (7)
- Chemistry (8)
- Materials Sci & Engr (1)
- Physics (1)

» Program Director

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About the IMS Polymer Program

The Polymer Program serves as the sole center in the State of Connecticut for graduate research and education programs focusing on polymer science and engineering. The Program is a nationally and internationally recognized center of excellence for interdisciplinary research and education in the fields of polymer science and engineering. The Program is dedicated to meeting the educational needs of its graduate and professional students; to providing lifelong learning opportunities in the study of polymeric materials; to assisting Connecticut industry in developing polymer technology; and to developing the knowledge base regarding polymeric materials and in disseminating this knowledge on a global basis.

Polymer Program faculty pursue intellectual excellence in an environment that integrates teaching, research, and service and is renowned for its expertise in the synthesis, characterization, engineering, and molecular design of polymeric materials systems. The Program is a leader in polymer research and educational programs. As such it attracts an intellectually rich and culturally diverse community of students and scholars.

Faculty Expertise

- Biomedical/Biomimetic Materials
- Electronic Materials
- Materials for Energy Systems
- Smart and Responsive Materials
- Sustainable Materials

Recent Faculty Awards

- DoE - GAANN
- NSF - DMREF
- NSF Career Award
- NSF - EFRI

Recent Student Awards

- ACS - Excellence in Graduate Polymer Research
- Ajinkya Deshmukh
 - Anna Maria LaChance
 - Samiksha Vaidya

Core Facilities

- Chromatography (e.g. GPC, GC, HPLC)
- Electrical Insulation Research Center
- High Field Characterization
- Spectroscopy (e.g. UV, Raman, FTIR, MS)
- Mechanical Testing and Rheology
- Microscopy (e.g. AFM, SEM, TEM)
- Nano-Measurements
- Nuclear Magnetic Resonance
- Polymer Processing Facilities
- Spectroscopy (e.g. UV, Raman, FTIR, MS)
- Surface Analysis
- Thermal Analysis