A graduate student operator, works on Empyrean, a multi-purpose research diffractometer that introduces the world’s first 3D detection system, PXcel1®.

WHAT OUR ALUMNI SAY...

LAUREL MORTON ('05)
Assistant Professor of Chemistry
Eastern Kentucky University

“I had a great experience at UT. I could not have asked for a better advisor. He was instrumental in helping me obtain my post doc position and is still helping me any way he can through mentoring and facilitating contacts in the field. Through my studies and research experience at UT, I was able to lay the foundation of research skills that I needed to be successful in beginning my own research program here at EKU.”

DEJIN LI ('08)
Process Chemist
SABIC Innovative Plastics Technology Center
Washington, West Virginia

“During my five years of graduate studies at UT, I published nine journal articles and was lead author on four. The articles have been cited more than 300 times. As a teaching assistant, I had a great opportunity to communicate with students and other faculty members, which not only strengthened my communication skills, but also solidified my fundamental chemistry knowledge. These are key factors for my success in the industry. After a year in the plastics industry, I have been elected into a leadership role of the Society of Plastics Engineers (SPE). I truly appreciate that UT offered me great training and assured my successful future.”

Department of Chemistry
552 Buehler Hall
1420 Circle Dr.
Knoxville, TN 37996-1600
Phone: 865-974-3141 • Fax: 865-974-9332 • Email: chemistry@utk.edu

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The UT Department of Chemistry offers exceptional regional collaborative research opportunities with Oak Ridge National Lab (ORNL). Faculty work in joint institutes that focus on advanced materials, biology sciences, computational, and neutron sciences. ORNL is partially managed by UT and some chemistry faculty serve as joint faculty.

Several of our faculty are nationally and internationally recognized for their accomplishments, such as induction into the American Association for the Advancement of Science (AAAS), American Chemical Society (ACS), International Mesoporous Materials Society (IMMA), and National Science Foundation CAREER awards.

Association of Chemistry Graduate Students
A student-led organization that promotes and maintains an environment optimal to the graduate learning experience of its members. Membership is open to all chemistry graduate students.

How to Apply
The department accepts applications on a rolling admissions basis until the incoming class is full. Early applicants will be considered for fellowships and scholarships, which can substantially raise the stipend. Apply as soon as the application is open. Time may vary between September-November. Learn more at chem.utk.edu.

PROGRAM APPLICATION REQUIREMENTS
• Official transcript(s)
• Three (3) letters of recommendations
• Resume
• TOEFL or iBT required for International students (IBLTS is acceptable, but not preferred)
• GRE
Chemistry subject test and a personal statement are recommended.

RESEARCH AREAS AND INTERDISCIPLINARY RESEARCH IN CHEMISTRY:
Analytical, Inorganic, Organic, Physical, Polymer, Environmental, Materials, Synthetic Chemistry, Catalysis, Chemical Physics, Chemistry & Life Sciences, Neutron Sciences, Radiochemistry, Theoretical & Computational Chemistry

FACILITIES AND INSTRUMENTS
Biological and Small Molecule Mass Spectrometry Core houses seven mass spectrometers and multiple computer workstations and provides project consultations and data analysis services. Polymer Characterization Lab is one of the premier academic laboratories in the world for characterizing polymers in terms of molecular weight, molecular weight distribution, conformation, size, and thermal properties. The Horiba Jobin-Yvon T64000 Raman Spectrometer is a triple grating spectrometer with micro- and macrostage sampling and multiple modes of operation, which include maximizing resolution and sensitivity. X-Ray Crystallography Facilities with a D8 VENTURE Photon100 Kappa Dual source Mo/Cu (IQs) single crystal instrument and a multi-purpose research diffractometer. Five Nuclear Magnetic Resonance Spectrometers used in research and teaching.

• Annual research funding exceeds $4 million
• Strong ties to nearby Oak Ridge National Laboratory – the nation’s largest energy research facility
• State-of-the-art NMR, polymer characterization, and mass spectrometry facilities

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