



LOUISVILLE

CHEMICAL ENGINEERING



Ernst

The ChE program at the University of Louisville is one of the earliest programs in the US tracing its origins to 1925. It received initial accreditation in 1935 as the first department in the South to be so recognized by the AIChE. The current program shares approximately 48,000 sq ft of laboratory and classroom space in Ernst Hall with the affiliated CONN Center for Renewable Energy Research. The program offers BS, MS, MEng, and PhD degrees. Twelve ChE faculty members and three adjunct faculty from the CONN Center are affiliated with the program and there are approximately 275 undergraduates and 42 graduate students. Research activities span a broad range focusing on energy, materials, and bio-related areas. In addition to the extensive research facilities available in Ernst Hall, major shared facilities include the Rapid Prototyping Center and a 10,000 sq ft advanced cleanroom facility located in the Shumaker Research Building.

RESEARCH AREAS

- Bioenergy
- Biomaterials
- Biomimetic Systems
- Bioprocessing, Biofuels & Bio-Products
- Adsorption & Catalysis
- Complex Fluids
- Computational Fluid Dynamics
- Fuel Cells
- Membranes
- Microfabrication
- Microreactors
- Molecular Simulations
- Nanomaterials & Nanochannels
- Photovoltaic Materials
- Polymers
- Sensors

FACULTY

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Shumaker

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