

ChE PROGRAM PROFILE
Graduate Degrees

MS in Chemical Engineering
 MEng in Chemical Engineering
 PhD in Chemical Engineering

\$5 M in annual research
 450 undergraduate students
 40 graduate students
 16 full-time research faculty
 2 new Polymer faculty in 2023

ChE RESEARCH FOCI
 Energy and Environment
 Bio/Life Sciences
 Membranes/Separation Technologies
 Soft Matter/Polymers
 Catalysis/Advanced Materials
 Bioengineering
 Nanotechnology

CHEMICAL ENGINEERING

Graduate Assistant opportunities



UC Department of Chemical & Environmental Engineering
 601 Engineering Research Center
 Cincinnati, Ohio 45221-0012

ceas.uc.edu/chemical-environmental-engineering

Apply: grad.uc.edu/admissions

Contact: engrgrad@ucmail.uc.edu

ChE RESEARCH FACULTY

Anastasios P. Angelopoulos, PhD, ChEE Dept. Head
 Fuel Cells and batteries, electrocatalysis, colloid synthesis, metal plating, nanostructured polymeric membranes, sensors

Gregory Beaucage, PhD
 Scattering, polymers, nanomaterials, soft matter

Junhang Dong, PhD
 Microporous membranes for molecular and ionic separations in hydrogen production, brine desalination, flow battery operations, and environmental sensor monitoring

Rakesh Govind, PhD
 Process synthesis, design, simulation and control, membrane separations, biological treatment of air, water, and soil

Vadim Gulians, PhD
 Heterogeneous catalysis for energy and environmental applications, nanomedicine for gene and drug delivery

Greg Harris, PhD
 Regenerative medicine, tissue engineering, biomaterials, extracellular matrix, and microscopy

Joo-Youp Lee, PhD, ChE Program Chair
 Heterogeneous catalysis for energy and environmental applications, nanomedicine for gene and drug delivery

Jonathan Nickels, PhD
 Structure and Dynamics of Soft Matter and Biological Materials. Biomaterials, Biofuels, Membranes and Water. Neutron, X-ray and Light Scattering, Molecular Dynamics Simulations.

Yoonjee Park, PhD
 Colloids, biophysics, drug delivery, and imaging.

Jonathan Pham, PhD
 Soft matter, polymers, interfaces, wetting, adhesion, soft materials mechanics.

Aashish Priye, PhD
 Micro-fluidics and micro-scale physics, biophysics, computational fluid dynamics, chaotic flows, POC diagnostics, bioengineering

Vesslin Shanov, PhD
 Synthesis, characterization, and processing of nanostructured materials including CNTs and graphene for electronics, aerospace, and medicine

Peter Smimiotis, PhD
 Molecular sieves for catalytic processes, heterogeneous catalysis for environmental restoration, hydrogen generation, photocatalytic processes for environmental protection, CO2 removal

John W. Weidner, PhD, CEAS Dean
 Multi-scale modeling of batteries, fuel cells, and electrolyzers; synthesis and characterization of electrochemically active materials.

Jingjie Wu, PhD
 Heterogeneous/electro/photo catalysis of C1 and light alkane feedstock, atomic scale materials, electrochemical energy storage

Benjamin Yavitt, PhD
 Rheology, polymer processing, advanced materials and composites, scattering and rheo-optics, polymer physics

The University of Cincinnati is an affirmative action/equal opportunity institution.