

# CHEMICAL ENGINEERING

## Graduate Assistant opportunities

### ChE PROGRAM PROFILE

#### Graduate Degrees

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

\$2M annual research expenditure  
660 undergraduate students  
50 graduate students  
13 full-time research faculty

### ChE RESEARCH FOCI

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



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

[ceas.uc.edu/chemical-environmental-engineering](http://ceas.uc.edu/chemical-environmental-engineering)

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## 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**  
Gas separation membranes, membrane reactors, flow battery  
ion separators, and optical and microwave sensors

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

**Vadim Guliants, PhD**  
Heterogeneous catalysts, adsorbents, and membranes for  
clean energy and environmental applications

**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**  
Neutron scattering, soft matter, biology, biomaterials

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

**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, CO<sub>2</sub>  
removal

**Jingjie Wu, PhD**  
Heterogeneous/electro/photo catalysis of C<sub>1</sub> and light alkane  
feedstock, atomic scale materials, electrochemical energy  
storage