THE UNIVERSITY OF ALABAMA®

College of Engineering

Chemical and Biological Engineering

The Department of Chemical and Biological Engineering is one of the fastest growing departments in the country, along with a comprehensive suite of state-of-the-art facilities. We offer M.S. and Ph.D. degrees within a broad range of research areas and close interaction with world-class faculty.

DID YOU KNOW?

In the last five years...
- **Research funding increased by 380%**
- **Ph.D. enrollment increased by 100%**

Research Areas

- Biomaterials & Stem Cells
- Bioprocessing, Metabolic Engineering
- Cancer Mechanisms, Models & Therapies
- Environmental Catalysis and Reactor Design
- CO_2 Separation & Clean Energy
- Colloids & Surfactants
- Drug Screening, Resistance & Delivery
- Fuel Cells & Batteries, Electrodeposition
- Functionalized/Nanostructured Membranes
- Interfacial & Surface Phenomena
- Ionic Liquid-based Materials & Systems
- Magnetic Materials & Nanotechnology
- Molecular & Atomistic Simulations
- Polymeric Material Synthesis & Design
- Chemical & Biological Sensors
- Stretchable Electronics
- Water Treatment and Purification

Faculty

Yuping Bao (Washington)
Jason Bara (Colorado)
Christopher Brazel (Purdue)
Milad Esfahani (Tennessee Tech)
James Harris (Purdue)
Clifford Henderson (UT-Austin)
Qiang Huang (Louisiana State)
Yonghyun John Kim (UMBC)
Tonya Klein (NC State)
Amanda Koh (Rensselaer Polytechnic)
Shreyas Rao (Ohio State)
Stephen Ritchie (Kentucky)
James Sheehan (Penn State)
Ryan Summers (Iowa)
Harold Hohyun Sun (UT-Austin)
Tibor Szilvási (Budapest)
Heath Turner (NC State)
Zhongyang Wang (Wash U)
Steven Weinman (Clemson)
John Wiest (Wisconsin)
Chao Zhao (Akron)

Investments in the last ten years

$350+ MM spent on BUILDINGS

$150+ MM spent on EQUIPMENT

Contact Information

Email: ybao@eng.ua.edu
Phone: 205-348-6450
Web: http://che.eng.ua.edu
Apply: https://graduate.ua.edu

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