

IOWA STATE UNIVERSITY

Department of Chemical and Biological Engineering



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-Livability, 2022

Research Areas

- Biorenewables
- Renewable Energy
- Nanomaterials
- Health Care Technology
- Biomedical Engineering
- Catalysis & Reaction Engineering
- Computational Fluid Dynamics

Programs

- Doctor of Philosophy
- Master of Science
- Master of Engineering

Diverse Faculty Who Innovate

Rizia Bardhan
PhD, Rice University
Nanomedicine & nanophotonics

Ratul Chowdhury
PhD, The Pennsylvania State University
Protein structure-function prediction, machine learning, protein engineering, drug discovery and human health

Eric W. Cochran
PhD, University of Minnesota
Self-assembled polymers

Rodney O. Fox
PhD, Kansas State University
Computational fluid dynamics & reaction engineering

Kurt R. Hebert
PhD, University of Illinois
Corrosion & electrochemical engineering

Andrew C. Hillier
PhD, University of Minnesota
Interfacial engineering & electrochemistry

Laura R. Jarboe
PhD, University of California, Los Angeles
Biorenewables production by metabolic engineering

Molly Kozminsky
PhD, University of Michigan, Ann Arbor
Nano & microtechnology for cancer research

Monica H. Lamm
PhD, North Carolina State University
Molecular simulation of advanced materials

Wenzhen Li
PhD, Dalian Institute of Chemical Physics
Electrocatalysis, electrochemical energy & biorenewables

Surya K. Mallapragada
PhD, Purdue University
Biomaterials & bioinspired materials

Thomas Mansell
PhD, Cornell University
Synthetic biology microbiome engineering

Balaji Narasimhan
PhD, Purdue University
Biomaterials & nanomedicine

Matthew G. Panthani
PhD, University of Texas, Austin
Nanomaterials, electronics, & optoelectronics

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PhD, University of Texas, Austin
Nanomaterials, electronics, & optoelectronics

Tanya Prozorov
PhD, Rice University
Biorenewables, advanced materials, & nanostructured materials

Nigel Reuel
PhD, Massachusetts Institute of Technology
Biosensors & biomaterials

Luke T. Roling
PhD, University of Wisconsin-Madison
Computational heterogeneous catalysis

Ian C. Schneider
PhD, North Carolina State University
Mechanobiology & tissue engineering

Brent H. Shanks
PhD, California Institute of Technology
Heterogeneous catalysis & biorenewables

Jacqueline Shanks
PhD, California Institute of Technology
Plant & microbial metabolic engineering

Zengyi Shao
PhD, University of Illinois
Biorenewables production by metabolic engineering & synthetic biology

Jean-Philippe Tessonier
PhD, University of Strasbourg, France
Heterogeneous catalysis & biorenewables

R. Dennis Vigil
PhD, University of Michigan
Transport phenomena & reaction engineering in multiphase systems

Jing Wang
PhD, Chinese Academy of Sciences
Cancer, protein engineering, drug delivery

Qun Wang
PhD, University of Kansas
PhD, Wuhan University
Drug delivery, nanotechnology, biomaterials, & stem cells

Yue Wu
PhD, Harvard University
Photo-thermo-electric energy

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