Professors & University Professors

Dr. Eric Cochran  
Dr. Rodney Fox  
Dr. Kurt Hebert  
Dr. Andrew Hillier  
Dr. Laura Jarboe  
Dr. Surya Mallapragada

Dr. Balaji Narasimhan  
Dr. Derrick Rollins  
Dr. Brent Shanks  
Dr. Jacqueline Shanks  
Dr. R. Dennis Vigil
Associate Professors

Dr. Rizia Bardhan
Dr. Kaitlin Bratlie
Dr. Monica Lamm
Dr. Wenzhen Li
Dr. Matthew Panthani
Dr. Nigel Reuel
Dr. Ian Schneider
Dr. Zengyi Shao
Dr. Jean-Philippe Tessonnier
Dr. Yue Wu
Faculty – Courtesy Appointments

Robert Brown (Mechanical, Ag & Biosystems Engineering)
Chris Cornelius (Materials Science and Engineering)
Liang Dong (Electrical & Computer Engineering)
Theodore Heindel (Mechanical Engineering)
Duane Johnson (Materials Science & Engineering)
Michael Olsen (Mechanical Engineering)
Alberto Passalacqua (Mechanical Engineering)
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CBE Staff – Student Services

Matthew Brown
Student Services Specialist

Nicole Prentice
Academic Adviser

Mackenzie Schwartz
Academic Adviser
CBE Staff – Support

Sarah Beckman
Laboratory Supervisor

Ryan Arndorfer
Laboratory Supervisor

Colin Richey
Systems Analyst
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At a Glance - Students

- 487 undergraduate students, Fall 2021
- 79 ChE graduate students (Fall 2021)
- Highest proportion of female undergraduates in College of Engineering: 36% (Fall 2021)
CBE Undergraduates

- 487 undergraduate students, Fall 2021
- 36% female undergraduates, Fall 2021 (highest in College of Engineering)
- 121 B.S. degrees, 2020-21
CBE Graduate Students

- 79 graduate students, Fall 2021
- 15 graduate degrees (2020-21)
- Advanced laboratories and equipment
- CEGSO student organization open to all graduate students
CBE Research

Total research expenditures: $8M (2020-21)

Average Faculty Research Expenditure: $338,000 (2020-21)

Faculty Publications: 166 (2020-21)

Citations: 12,920 (2020-21)
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CBE Facilities: Sweeney Hall

- Total allocated space: 47,255 sq. ft.
- Research Labs: 21,641 sq. ft.
- Student Collaboration: 1,624 sq. ft.
- Computer Labs: 2,641 sq ft.
- Teaching Space: 9,235 sq. ft.
- Office Space: 8,968 sq. ft.
- Conference Space: 1,316 sq. ft.

Chemical Engineering Bldg., 1927
Sweeney Hall constructed, 1964
Addition with teaching labs, 1994
CBE Facilities: Center for Biorenewable Chemicals

CBiRC

Opened in 2008, CBiRC is housed in the Biorenewables Complex, a groundbreaking center for research and education in cutting-edge biorenewables and alternative fuels and chemicals.
Occupying the fifth floor of the Advanced Teaching and Research Building (ATRB) the Nanovaccine Institute carries on work that is revolutionizing prevention and treatment of disease. Led by CBE’s Anson Marston Distinguished Professor and Vlasta Klima Balloun Faculty Chair Balaji Narasimhan, the institute is composed of 78 researchers at 28 universities and offers research and employment opportunities to both CBE undergraduate and graduate students.
Unique & Advanced Research Facilities

- Atomic force microscopy
- Biotechnical and protein separations
- Catalyst characterization
- Cell and tissue culture
- Chemical vapor desposition & reactive sputtering
- Gene delivery
- Particle imaging velocimetry
- Particle size analysis and light scattering
- Polymer characterization
- Small Angle X-Ray Scattering (SAXS) unit
- Spectroscopic techniques
Unique Research Facilities: Keck Lab (Atom Probe)

LEAP (Local Electrode Atom Probe)
Combinatorial Sputtering System
Chemical Printer
Gradient Coater
Scanning Electro-Chemical Microscope
Atom Force Microscope/Scanning
Tunneling Microscope
Infrared Microscope
Unique & Advanced Research Facilities:
Experimental Fluid Mechanics

Flow diagnostic laboratory with

- Stereo and high-speed Particle Image Velocimetry (PIV)
- Reactive Planar Laser-Induced Fluorescence (PLIF)
- Laser Doppler Velocimetry (LDV)
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Undergraduate Student Organizations

American Institute of Chemical Engineers supplements the education of chemical engineers through an interface with industry, graduate study information and the development of leadership skills. The student chapter of Iowa State University is highly visible and active. Membership can provide valuable early credentials in the chemical engineering industry while a student is still in school. Contact Prof. Stephanie Loveland, prairie@iastate.edu
National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) promotes development and retention of all, and especially, underrepresented and multicultural students in STEM-related curricula. Contact: Prof. Derrick Rollins, drollins@iastate.edu

National Society of Black Engineers (NSBE) promotes STEM-related curricula to all minority students, especially underrepresented minorities. Contact: Lequetia Ancar, lancar@iastate.edu

Society of Hispanic Professional Engineers & Latinos in Science and Engineering strives to enhance the personal and professional development of Hispanic engineers and scientists. iowastate.shpemaes@gmail.com
Society of Women Engineers helps women achieve full potential in careers as engineers and leaders and expands the image of the engineering profession. Contact Prof. Kaitlin Bratlie, kbratlie@iastate.edu

Chemical Engineering Graduate Student Organization is open to all CBE graduate students. The club fosters community and professional development for all chemical engineering graduate students. Contact Prof. Zengyi Shao, zyshao@iastate.edu
CBE Student Organizations!

Share with us and we’ll share with the world!

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