UF Herbert Wertheim College of Engineering
UNIVERSITY of FLORIDA

DEPARTMENT OF CHEMICAL ENGINEERING

RESEARCH AREAS

- Advanced Materials, Devices, and Nanotechnology
- Biomolecular and Cellular Engineering for Human Health
- Complex and Multiphase Flow Dynamics
- Energy, Environment, and Sustainability
- Heterogeneous Catalysis and Surface Science
- Modeling, Theory, and Simulation
- Transport, Electrochemistry and Thermodynamics

che.ufl.edu

352-392-0881

@UFLChE

Carlos Rinaldi, Ph.D.
Department Chair &
Dean's Leadership Professor

The University of Florida has over 100 years of history in **Chemical Engineering** education. Our students are among the best in the nation, as evidenced by their scholastic achievements, awards, and recognitions. Our alumni contribute to important industrial sectors and are entrepreneurs that drive the global economy. Our faculty are dedicated educators and recognized leaders in their research fields. Together we aim to make the world a better place through application of the principles and the practice of Chemical Engineering.

DEGREE PROGRAMS

- BACHELOR OF SCIENCE (B.S.)
- MASTER OF ENGINEERING (M.E.)
- MASTER OF SCIENCE (M.S.)
- DOCTOR OF PHILOSOPHY (Ph.D.)

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BEST CHEMICAL ENGINEERING GRADUATE PROGRAM AMONG PUBLIC UNIVERSITIES

2023 U.S. News & World Report Best Graduate Schools Ranking

UNDERGRADUATE STUDENTS (FALL 2019)

540 ENROLLED

32% UNDERREPRESENTED MINORITIES

40% WOMEN

30 **RESEARCH AND TEACHING FACULTY** AND **GROWING**

14 **NEW FACULTY** SINCE FALL 2018

BACHELOR DEGREE PROGRAM:

Top 20 in number of **Bachelor** degrees awarded
#5 in degrees awarded to **hispanics**

MASTERS DEGREE PROGRAM:

#6 in total number of **master's** degrees awarded
#6 in number of degrees awarded to **women**

DOCTORAL DEGREE PROGRAM:

#8 in total number of **doctoral** degrees awarded
#2 in number of degrees awarded to **african americans**
#3 in number of degrees awarded to **hispanics**
#7 in number of degrees awarded to **women**

Information sourced from ASEE's "Engineering by the Numbers" 2017 Report

61% OF SPRING 2019 B.S. GRADUATES PARTICIPATED IN **UNDERGRADUATE RESEARCH**

71% OF SPRING 2019 B.S. GRADUATES PARTICIPATED IN **INTERNSHIPS**

71% OF SPRING 2019 B.S. GRADUATES **ACCEPTED A JOB OR GRADUATE SCHOOL OFFER** BY GRADUATION

2019 AVERAGE STARTING SALARY

$77,000

FOR UNDERGRADUATES

EMPLOYERS (Partial List):

ABinBev
Accenture
Albemarle
Andritz USA
Anheuser Busch
Cargill
Cherokee Enterprises
Dold Foods
Dow Chemical Company
Eli Lilly
Epic Systems
ExxonMobil
Frito Lay
GE Appliances
General Mills
Honeywell International
Intel
Kraft Heinz
Michelin
NextEra Energy
PepsiCo
Proctor & Gamble
Schlumberger
Solenis
SynQuest Labs
Tropicana

MEET OUR FACULTY

Jason E. Butler
Professor
Dynamics of Complex Fluids, Suspension and Multiphase Fluid Mechanics, Polymer Dynamics, Microfluidic Flows of Complex Materials

Won Tae Choi
Assistant Professor
Design, engineering, and analysis of electrochemically active soft materials for energy conversion and storage applications

Henry Chu
Assistant Professor
Transport Phenomena, Colloid and Interface Science, Electrokinetics, and Rheology

Oscar Crisalle
Professor
Multivariable Control Systems, Robust Control Design for Uncertain Systems, Predictive Control, Virtual Sensors, Green and Renewable Energy Optimization, Fuel Cells

Carl Denard
Assistant Professor
Protein Therapeutics, Synthetic Biology, Biocatalysis, Bioengineering

Richard Dickinson
Professor
Cellular and Molecular Bioengineering, Cell Motility, Cell Mechanics, Cytoskeletal Dynamics

LiLu T. Funkenbusch
Instructional Assistant Professor
Unit Operations

Helena Hagelin-Weaver
Associate Professor, Dr. and Mrs. Frederick C. Edie Term Professor, and Ph.D. Recruitment Coordinator
Heterogeneous Catalysis, Energy Applications, Nanoparticle Oxides, Atomic Layer Deposition, Advanced Characterization

Charles Hages
Assistant Professor
Semiconductor Materials and Devices, Nanomaterials, Energy, Optical Spectroscopy, Modeling

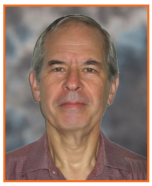
David Hibbitts
Associate Professor and Moreno Rising Star Professor
Heterogeneous Catalysis, Kinetic Studies, Density Functional Theory, Catalyst Synthesis and Characterization

Piyush Jain
Assistant Professor and Shah Rising Star Professor
Bioengineering, Gene Editing, CRISPR/Cas, Nucleic acids and Protein Engineering, Nanomaterials, Responsive Systems

Yeongseon Jang
Assistant Professor
Self-Assembly, Colloid and Surface Science, Functional Coating, Polymer Engineering, Biomaterials, Recombinant Proteins

Peng Jiang
Professor
Nanooptics, Functional Coatings, Smart Shape Memory Polymers, Sensors

Dmitry Kopelevich
Associate Professor
Self-Assembled Surfactant Systems, Stability of Biomembranes, Transport in Self-Assembled Systems



Anthony Ladd
Professor
Complex Fluids, Transport Phenomena

Fernando Mérida
Instructional Assistant Professor
Engineering Education, Underrepresented Minorities, Unit Operations, Bioprocess/ Biochemical Engineering

Ranga Narayanan
Distinguished Professor
Interfacial Instability, Pattern Formation in Materials Science and Space Operations, Fluid Mechanics

Mark Orazem
Distinguished Professor, UF Preeminence Term Professor
Electrochemical Engineering, Impedance Spectroscopy, Mathematical Modeling, Corrosion

Sumant Patankar
Instructional Assistant Professor
Supercritical fluids, Adsorption, Nano-porous solids, Neutron Scattering, Photolithography and Design of Experiments

Fan Ren
Distinguished Professor
Health Sensors, Ceramic Coatings, Semiconductor Materials and Devices

Carlos Rinaldi
Department Chair and Dean's Leadership Professor
Nanomedicine, Magnetic Nanoparticles, Colloidal Hydrodynamics

Sindia Rivera-Jimenez
Instructional Assistant Professor
Engineering Education, Underrepresented Minorities, Unconscious Bias, Instructional Design, Product/Process Design, Process Simulation

Janani Sampath
Assistant Professor
Polymer Membranes, Polymer-Protein Conjugates, Self-Assembly, Computational Materials Design

Whitney Stoppel
Assistant Professor and William P. and Tracy Cirioli Term Professor
Biomaterials, Regenerative Medicine, Striated Muscle, Transport Phenomena, Rheology of Natural Biopolymers

Spyros A. Svoronos
Harry and Bertha Bernstein Professor and Undergraduate Program Coordinator
Modeling and Optimization of Biological, Chemical, Particle Processes

Vincent Tocco, Jr.
Instructional Assistant Professor
Engineering Education, Active Learning, Teamwork Dynamics, Graduate Student Research Methods, Life-Long Learning

Sergey Vasenkov
Professor
Transport in Porous Membranes and Catalysts, Single-File Diffusion in Nanochannels, Membrane-Based Separations

Jason Weaver
Professor
Surface Chemistry of Metals and Metal Oxides, Reaction Kinetics and Catalysis, Oxide Thin Films

Kirk J. Ziegler
Associate Chair for Graduate Studies and Charles A. Stokes Endowed Professor
Nanomaterial Interfaces, Porous Materials, Renewable Energy, Membrane-based Separations, Optical Spectroscopy