Faculty
Paschalis Alexandridis • self-assembly, complex fluids, nanomaterials, amphiphilic polymers, biopolymers
Stelios T. Andreadis • stem cells, cardiovascular and skin tissue engineering, wound healing, controlled protein and gene delivery
Michael E. Cain • cardiac electrophysiology, biomedical engineering, translational research
Chong Cheng • polymer and nanomaterial synthesis, drug delivery
Jeffrey R. Errington • molecular simulation, statistical thermodynamics, biopreservation
Vladimir Hlavacek • reaction engineering, nanopowders, explosives and detonations, analysis of chemical plants
Mattheos Koffas • metabolic engineering, bioinformatics, evolutionary engineering
David A. Kofke • molecular modeling and simulation
Carl R. F. Lund • heterogeneous catalysis, chemical kinetics, reaction engineering
Michael McKittrick • molecularly engineered materials, catalysis, photochemistry
Sriram Neelamegham • biomedical engineering, cell biomechanics, vascular engineering
Johannes M. Nitsche • fluid mechanics, transport phenomena, bioactive surfaces, biological pores
Sheldon Park • protein engineering, molecular evolution, structural bioinformatics, and simulations
Eli Ruckenstein • catalysis, surface phenomena, colloids and emulsions, biocompatible surfaces and materials
Michael E. Ryan • polymer and ceramics processing, rheology, non-Newtonian fluid mechanics
Harvey G. Stenger, Jr. • environmental applications of catalysis, hydrogen production, fuel cells
Mark T. Swihart • nanoparticle synthesis and applications, chemical kinetics, modeling reacting flows
Marina Tsianou • molecularly engineered materials, crystallization, biomaterials, biomimetics
E. (Manolis) S. Tzanakakis • stem cell biotechnology, pancreatic cell and tissue engineering, biochemical engineering

Adjunct Faculty
Athos Petrou (Physics) • spectroscopy, semiconductor nanostructures
Frederick Sachs (Biophysics) • cellular mechanics and signaling
Carel Jan van Oss (Microbiology and Immunology) • colloidal stability in polar systems, DLVO theory extended for use in water

Chemical and Biological Engineering faculty participate in many interdisciplinary centers and initiatives including The Center of Excellence in Bioinformatics and Life Sciences, The Center for Computational Research, The Institute for Lasers, Photonics, and Biophotonics, The Center for Spin Effects and Quantum Information in Nanostructures, The Center for Advanced Molecular Biology and Immunology, and The Center for Advanced Technology for Biomedical Devices

http://www.cbe.buffalo.edu

For more information and an application, go to http://www.cbe.buffalo.edu, e-mail cegrad@buffalo.edu, or write to Director of Graduate Studies, Chemical and Biological Engineering, University at Buffalo (SUNY), Buffalo, New York, 14260-4200

All Ph.D. students are fully supported as research or teaching assistants. Additional fellowships sponsored by Praxair, Inc., The National Science Foundation, the State University of New York, and other organizations are available to exceptionally well-qualified applicants.