Maciek R. Antoniewicz  
DuPont Young Professor  
Assistant Professor  
Metabolic engineering; systems biology; metabolic flux analysis; experimental and computational tools for quantifying cellular physiology; integrated genomic and metabolic analysis.

Mark A. Barteau  
Senior Vice Provost for Research and Strategic Initiatives  
Robert L. Pigford Chair  
Professor of Chemistry and Biochemistry  
Surface science and catalysis on metals and metal oxides.

Antony N. Beris  
Arthur B. Metzner Professor  
Modeling and simulation of complex flows, nonequilibrium thermodynamics and transport phenomena.

Douglas J. Buttrey  
Professor  
Synthesis, crystal growth, and characterization of materials for applications in superconductivity, catalysis and fast ion conduction.

Jingguang G. Chen  
Claire D. LeClaire Professor  
Professor of Chemistry and Biochemistry  
Synthesis and characterization of novel catalytic materials for fuel cells, environmental catalysis, and photocatalysis.

L. Pamela Cook  
Associate Dean, Engineering  
Joint Professor of Mathematics  
Research Interests Fluid flows, especially non-Newtonian (polymer) fluid flows; transonic aerodynamics (flight near the speed of sound); mathematical modeling of physical systems; asymptotic and perturbation methods, especially as applied to nonlinear, partial differential equation systems

Prasad S. Dhurjati  
Chemical Engineering Professor  

Thomas H. Epps  
Assistant Professor  
Polymeric networks; ultra-thin polymer films; nanostructured assemblies for targeted drug delivery; polymer blends; block copolymer structures in microfluidic devices.
Eric M. Furst
Associate Professor
Colloid and polymer physics, microrheology, active and non-linear microrheology, controlled delivery of therapeutics, cell biophysics, complex fluid structure and rheology, particulate gels, directed self-assembly.

Jochen A. Lauterbach
Professor
High-throughput catalysis, fabrication of conducting polymer nanofilms, non-linear dynamics of heterogeneously catalyzed reactions, and time-resolved IR spectroscopy of supported catalysts.

Kelvin H. Lee
Gore Professor of Chemical Engineering
DBI Faculty Fellow
Biomolecular, biomedical, and metabolic engineering; proteomics and systems biology; biological mass spectrometry; protein secretion and synthesis; diagnosis and treatment of neurodegenerative diseases.

Abraham M. Lenhoff
Gore Professor
Transport phenomena, separation processes, biophysics and bioengineering.

Raul F. Lobo
Professor
Inorganic materials synthesis and characterization, catalysis and kinetics, and adsorption and separations.

Babatunde A. Ogunnaike
William L. Friend Professor
Professor, Center for Systems Biology - DBI
Process control, modeling and simulation; systems biology; and applied statistics.

Eleftherios T. Papoutsakis
Eugene DuPont Chair
DBI Faculty Fellow
Synthetic biology and metabolic engineering of microbial systems for biofuels and chemicals production; bioengineering of stem cells and hematopoiesis; experimental genomics and computational biology.

Christopher J. Roberts
Assistant Professor
Preservation of biological and pharmaceutical molecules and products; protein aggregation and chemical degradation; statistical mechanics and modeling of aqueous media.

Anne S. Robinson
Associate Professor
Molecular and cellular engineering for improved protein production.
T. W. Fraser Russell
Chief Engineer, Institute of Energy Conversion
Allan P. Colburn Professor
Semiconductor reaction and reactor engineering, photovoltaic unit operations, multi-phase fluid mechanics.

Stanley I. Sandler
H.B. duPont Chair of Chemical Engineering
Professor of Chemistry and Biochemistry
Thermodynamics, statistical mechanics, computational quantum mechanics, phase equilibria, separations processes, biochemical separations.

Annette D. Shine
Associate Professor
Rheology and processing of polymers; electrorheology; polymers and supercritical fluids; drug delivery.

Millicent O. Sullivan
Merck Faculty Fellow
Assistant Professor
Biomolecular engineering, nanostructures for delivery of therapeutics.

Dionisios G. Vlachos
Professor
Detailed reaction mechanism development, reactor design for microchemical systems and portable power, cellular engineering, cancer control, non-equilibrium statistical mechanics, multiscale modeling.

Norman J. Wagner
Alvin B. and Julia O. Stiles Professor and Department Chairperson
Rheology of colloidal dispersion, nanoparticles, surfactant, biopolymer and polymer solution, and structured polymers and polymer blends; nonequilibrium statistical mechanics and thermodynamics of complex fluids.

Brian G. Willis
Assistant Professor
Experimental and computational chemistry investigations of chemical processes related to electronic materials.

Richard P. Wool
Professor
Polymer physics, interfaces, composites, dynamics, fracture, biodegradation, materials science.