Chemical & Materials Engineering

Graduate Program

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Faculty and Research

R. Michael Banish; Ph.D., University of Utah
Associate Professor
Crystal growth, materials synthesis and characterization, transport property measurements.

Krishnan K. Chittur; Ph.D., Rice University
Professor
Medical diagnostics and gene expression bioinformatics.

Christine Curtis, Ph.D., Florida State University
Professor, Provost
Phase and reactions equilibria, energy balances, thermodynamics, heat and mass transfer, unit operations laboratory, thermodynamics and chemical instrumentation.

Yu Lei; Ph.D., University of Illinois, Chicago;
Assistant Professor
Atomic layer deposition for advanced materials, energy conversion and storage, surface chemistry and catalysis.

Shankar Mahalingam; Ph.D., Stanford University;
Professor, Dean, Interim Chair
Direct and large-eddy simulations of turbulent combustion, wildland fire behavior.

Kyung-Ho Roh; Ph.D., University of Michigan
Assistant Professor
Immunoengineerig via biomaterials and cellular and molecular engineering.

Jeffrey J. Weimer; Ph.D., MIT
Associate Professor
Fundamental chemistry and structure of materials surfaces as applied to adhesion phenomena, thin film coatings, biocompatibility and surface functionalization.

The Chemical and Materials Engineering Department at the University of Alabama Huntsville offers graduate programs leading to an M.S. or a Ph.D. in advanced areas of chemical engineering, materials science and engineering and biotechnology. Our faculty is dedicated to advancing our understanding of problems in catalysis, mass transfer, fluid mechanics, materials processing, thin films and adhesion, energy conversion and storage, structure of nanomaterials, gene expression, bioinformatics and medical diagnostics. Our faculty works closely with several scientists at the Hudson Alpha Institute for Biotechnology located in Huntsville, Alabama offering students an outstanding opportunity to work on understanding the relationship between genes, gene sequences and the disease process. Our faculty is also dedicated to creating and implementing innovative ideas in teaching which include the use of multimedia technologies and open source software for computing and simulation.

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