

Addressing critical societal challenges

- Developing clean, novel sources of energy
- Maintaining and remediating the environment
- Advancing health care

Offering unique opportunities

Internships at the Pacific Northwest National Laboratory (PNNL)
Participate in biofilm and catalysis research, and other programs.

Training program in protein biotechnology, sponsored by the National Institutes of Health

Collaborate with leading engineers and scientists.

ARCS fellowship (Achievement Rewards for College Scientists)
offered by the Seattle Chapter of ARCS Foundation



Leading the nation in key research areas

CATALYSIS & KINETICS

Yong Wang

Voiland Distinguished Professor and PNNL Fellow

Washington State University
Development of catalytic materials and reaction systems for the conversion of fossil and biomass feedstocks

Norbert Kruse

Voiland Distinguished Professor and PNNL Fellow

Technical University of Berlin
Heterogeneous catalysis: from fundamentals to industrial applications

Kirk Schulz

Professor and Washington State University President
Virginia Polytechnic Institute and State University
Reactive Surface Analysis

Mary Rezac

Dean of the Voiland College of Engineering and Architecture
University of Texas at Austin
Polymeric membranes to separate gas and liquid mixtures

Peter Pfromm

University of Texas at Austin
Fundamentals and applications of membrane separations

Su Ha

University of Illinois Urbana-Champaign
Energy generation from alternative fuels

Hongfei Lin

Louisiana State University
Catalytic conversion of biomass into liquid fuels

Jean-Sabin McEwen

Dalhousie University, Canada
Atomistic modeling of catalytic processes for energy and environmental applications

Steven Saunders

Auburn University
Nanotechnology for novel catalytic systems

Di Wu

University of California, Davis
Heterogeneous and Homogeneous catalysis

Xiao Zhang

University of British Columbia
Biomass chemistry, biomass conversion to bioproducts and bioenergy

MOLECULAR & CELLULAR ENGINEERING

Birgitte Ahring

University of Copenhagen
Microbiology and biofuels

James Petersen

Iowa State University
Experimental and computational design of heavy metal, chlorinated solvent bioremediation systems

Bernard Van Wie

Oklahoma University
Cell and tissue engineering, biosensors and bioanalytics

Wen-ji Dong

University of London, England
Cardiac muscle biology and mechanics, diagnostic biosensor design

Alla Kostyukova

Interim Director
Institute of Protein Research, Russian Academy of Sciences & Moscow State University
Regulation of actin dynamics; protein structure and interactions; circular dichroism

Haluk Beyenal

Hohenschuh Distinguished Professor
Hacettepe University
Biofilm engineering

Xianglong Wang

University of Michigan
Biomedical Transport & Scientific Computing

ENGINEERING EDUCATION

David Thiessen

University of Colorado at Boulder
Fluid mechanics of drops, bubbles and capillary channels, applications in microgravity

Bernard Van Wie

Oklahoma University
Engineering Education, desktop learning modules

BIOMECHANICS

David Lin

Northwestern University
Integrated mechanical properties of skeletal muscle and spinal reflexes

Anita Vasavada

Northwestern University
Biomechanics and neural control of the musculoskeletal system

TWO DOCTORAL DEGREES:

- Chemical engineering
- Engineering science (bioengineering emphasis)