

Mechanical Engineering

Faculty and Research Areas

T.S. Ravigururajan (PhD, PE) – Chairman - ts.ravi@wichita.edu Thermal management in engineering applications, energy systems, and bio-thermal fluids.

Ikram Ahmed (PhD) - ikram.ahmed@wichita.edu Modeling and Simulation of Fluid Flow and Heat Transfer; Renewable Energy; Sustainability.

Davood Askari (PhD) - davood.askari@wichita.edu Design, Synthesis, Characterization, and Applications of Nanomaterials (e.g., Carbon Nanotubes and NanoCoils, and Metallic Nanoneedles), Nanostructures, Thin Films, Nanodevices, High-Performance Multifunctional Composites & Nanocomposites, Composite Joints, and Mechanical Systems.

Eylem Asmatulu (PhD) - e.asmatulu@wichita.edu Additive manufacturing, resource recovery, waste water treatment, green energy, sustainability and composite materials.

Ramazan Asmatulu (PhD) - ramazan.asmatulu@wichita.edu Synthesis, characterization and applications of nanomaterials, biomaterials, and composite materials for energy, environment, biomedical, and aerospace industries.

Sindhu Preetham Burugupally (PhD) - sindhupreetham.burugupally@wichita.edu Design, Fabrication, and Characterization of Microelectromechanical Systems, Microengines, Microfluidics, Nonlinear Dynamics, Electromechanics, Modeling of Physical Systems, Sensors and Actuators, Lab-on-chip.

Brian Driessen (PhD) - brian.driessen@wichita.edu Controls and Dynamics.

Shuang Gu (PhD) - shuang.gu@wichita.edu Sustainable fuels, ammonia electrosynthesis, methane upgrading, ion-selective polymers, redox-flow batteries, fuel cells, and electrochemistry.

Gisuk Hwang (PhD) - gisuk.hwang@wichita.edu Heat and Mass Transfer for Sustainable Energy and Environment Systems,

Yang-Seon Kim (PhD) - yang-seon.kim@wichita.edu Building indoor air quality and energy consumption, thermal-fluid transportation in buildings.

Hamid Lankarani (PhD) - hamid.lankarani@wichita.edu Mechanical Engineering design, impact dynamics, crashworthiness, multibody dynamics, structures, biomechanics, and occupant protection.

Bin Li (Ph.D.) - bin.li@wichita.edu Synthesis, fabrication and characterization of polymers, protein materials and their nanocomposites; Dielectric Materials; Polymer Gels; Applied Rheology.

Rajeev Nair (PhD) - rajeev.nair@wichita.edu Laser-based flexible fabrication in nano/micro/meso scale, laser surface texturing/coatings, design and mechanical analysis of orthopedic devices.

Muhammad Rahman (PhD) - muhammad.rahman@wichita.edu Phase change heat transfer, thermal management, renewable power generation, energy storage, modeling and simulation, refrigeration and air conditioning.

Wei Wei (PhD) - wei.wei@wichita.edu Nanostructured materials, Renewable energy conversion systems, Advanced energy storage systems.

Yimesker Yihun (PhD) - yimesker.yihun@wichita.edu Control System Design, Human-Robot Interaction (HRI), Spatial Mechanism Syntheses applied to multi-fingered robotic hands and exoskeletons for rehabilitation.

