

# DEVELOPING NEXT-GENERATION TECHNOLOGIES



## AREAS OF RESEARCH CONCENTRATION

### ENERGY

- Reaction engineering
- Microreactor technology
- Heterogeneous catalysis
- Renewable transportation biofuels
- Density functional theory modeling
- Solar cells
- Fuel cells

### BIOMEDICINE

- Tissue and Tumor models
- Wearable Sensors
- Anti-infection Surfaces
- Biological microfluidics
- Bacteria-materials interaction
- Chem/Bio sensing and diagnosis
- Biomaterials
- Nanomedicine

### NANOTECHNOLOGY

- Polymer nanocomposites
- Functional nanoparticles
- Nanophotonics
- Polymer engineering
- Adaptive materials/interfaces
- Crystal engineering
- Self-assembly
- Fiber optics
- Optofluidics

## INTERDISCIPLINARY RESEARCH CENTERS

- Highly Filled Materials Institute
- Laboratory for Multiscale Imaging
- New Jersey Center for Microchemical Systems Lab



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