Emerging Technologies

Concept development, modeling, design, fabrication, characterization and production of sensors, actuators and advanced materials using:

**Micro and Nano-technology**

**Optical Sciences and Photonics**
- Solid-State Technology, EO/IR Devices, Micro-Optical-Electro-Mechanical Systems (MOEMS), Detectors and Sensors

**Energy Harvesting and Storage**
- Acoustical, Batteries, Nanostructures, Piezoelectric, Solar, Thermal and Vibrational

**Device/System Characterization**
- MEMS and NEMS devices
- Electrical, Optical, RF, Thermal (1.4K and up), Mechanical
- Material Characterization
- AFM, Elipsometry, Spectroscopy (UV-IR), SEM, Raman Spectroscopy
- Optical (Transmission and Absorption), Electrical (DC/RF)

**Resources**
- Full micro and nano-fabrication facilities
  - Class 10/100/1000 Clean Rooms
- Sensor Characterization Facilities
  - Acoustical, Electrical, Mechanical, Optical
- Modeling and Analysis
  - Microsystems, Nanosystems
  - Acoustical, Electrical, Fluid Mechanics, Mechanical, Optical

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