Learning Modules Available

**MEMS Introductory Topics**
- MEMS History
- Introduction to Sensors
- Introduction to Transducers
- Introduction to Actuators
- Units of Weights and Measures
- A Comparison of Scale
- Introduction to Statistical Process Control
- Problem Solving for Microsystems
- Intro to Nanotechnology

**MEMS Safety**
- Hazardous Materials
- Chemical Lab Safety Rules
- Safety Data Sheets
- Chemical Labels – NFPA
- Personal Protective Equipment

**MEMS Applications**
- MEMS Applications Overview
- Microcantilevers
- Micropressure Sensors & the Wheatstone Bridge
- Micropumps

**MEMS Fabrication**
- Crystallography for Microsystems
- Deposition Overview for Microsystems
- Photolithography Overview for Microsystems
- Etch Overview for Microsystems
- MEMS Micromachining Overview
- SCME Pressure Sensor Process
- MEMS: Making Micro Machines

**BioMEMS**
- BioMEMS Overview
- BioMEMS Applications
- DNA Overview
- DNA to Protein
- Cells – The Building Block of Life
- Biomolecular Applications for BioMEMS
- Clinical Laboratory Techniques and Microtechnology
- BioMEMS Diagnostics Overview
- BioMEMS Therapeutics Overview
- MEMS for Environmental and Bioterrorism Applications
- Regulations of BioMEMS
- DNA Microarrays

Hands-on Kits Available

- Pressure Sensor Model Activity and Kit
- MEMS: Making Micro Machines DVD Kit
- Microcantilever Activity and Kit
- Crystallography Activities and Kit
- Micropressure Sensor Process Activity and Kit
- Bulk Micromachining Activity and Kit
- Surface Micromachining Activity and Kit
- Science of Thin Films Activity and Kit
- DNA Microarray Model Kit
- Learning Microsystems through Problem Solving LIGA

Online Courses Available

- Career Pathways in Microtechnology
- Crystallography
- Microcantilevers
- BioMEMS Applications
- Micropressure Sensors
- Science of Thin Films

A new online course will be made available every month, visit our website to see what’s new!