



**BioMEMS Workshop**  
**University of New Mexico**  
**Manufacturing Training and Technology Center (MTTC)**  
**November 6, 2010, 10 am to 3 pm**

**Workshop Description**

This workshop covers the applications, operations, and fabrication of BioMEMS, MEMS used in the medical field. Participants will complete several activities that will help them to better understand the scale of biomolecules and how biomolecules and microsize devices are used for medical diagnostics, therapeutics and gene analysis. Workshop discussions will include where and how this material and the related activities can be incorporated into an existing curriculum.

**Audience: High School and Community College Instructors**

**Participant Preparation (download educational materials from [scme-nm.org](http://scme-nm.org)):**

- Participants need to read the following educational materials prior to the workshop:
  - o BioMEMS Overview Primary Knowledge (PK)
  - o BioMEMS Applications Overview PK
- Participants have full access to these and all of SCME's educational materials via [scme-nm.org](http://scme-nm.org).

**Participant Workshop Materials (SCME Provided)**

- BioMEMS Applications Overview Primary Knowledge (PK)
- All materials necessary to complete all workshop activities

**Participants are encouraged to bring cameras.**

**Discussion Led Format for presentations – Ask questions!**

**Workshop Schedule - Note: Schedule is subject to change as required by SCME/MTTC.**

**Saturday, November 6: 10am to 3pm**

10:00-10:30

- Welcome and Introductions
- Overview of Workshop and Expectations
  - o Pre workshop survey

10:30-12:00

- BioMEMS Applications Overview
- Scale of BioMolecules Activity

12:00 – 13:00 Lunch at MTTC (provided by SCME)

13:00-15:00

- BioMEMS Online Activities
- DNA, DNA Hybridization, DNA Microarray Discussion
- DNA Microarray Activity
- Dissemination and Wrap-up

