

# MNTeSIG Industry Involvement Sub-Team

Team Leader: Cait Cramer

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## Mission

The MNTeSIG Industry Team supports knowledge exchange between industry and academia to grow the micro-nanotechnology (MNT) technician workforce pipeline and increase enrollment in MNT education.

## Sub-Team Members

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## Updates

1. MNT-EC – official award letter has been received!
  - Interviewed by Alex Boekelheide from PCC (Marketing)
2. MNTeSIG online meeting
  - Two forms on the website: present (1 so far) or attend (9 so far)
  - Jessica Gomez – potential keynote? Matt is going to ask her.
3. Industry Mapping
  - Form on [scme-support.org](http://scme-support.org) for companies to add themselves.
  - Kate is still trying to contact SEMI

## Discussion

Defining Goals, Objectives, and Tasks.

**HOMEWORK!** – Review the information below and the MNT-EC attachment to the meeting email. Come to the next meeting with ideas on our goals, objectives, and tasks

### Goals (SMART)

- Specific (simple, sensible, significant)
- Measurable (meaningful, motivating)
- Achievable (agreed, attainable)
- Relevant (reasonable, realistic and resourced, results-based)
- Time bound (time-based, time limited, time/cost limited, timely, time-sensitive)

## Objectives

1. Establish a strong, engaged, regionally-diverse BILT for MNT-EC/MNTeSIG.
2. Create a diverse program of activities connecting companies with future technicians.
3. Ensure alignment of MNT education with evolving industry needs.
4. Work with professional organizations (MANCEF, SEMI)

## Tasks

- 1a. Draft a letter of introduction and mail to all industry contacts
- 1b. Create a survey to determine interest for involvement
  - How interested are you?
  - Are there specific topics within MNT that you are interested in?
  - Would you be interested in being an BILT member (meeting every two months)?
  - Are there other ways you'd like to participate?
- 2a. Companies give 10-min presentations to MNTeSIG about needs, hiring plans
- 2b. Encourage regional/local events
  - MNT industry fair that connects companies to students and their families
  - Company sponsored events (hackathons, Global City Team Challenge)
  - Site visits/tours
  - Lunch & learns
  - Mock interviews
  - Guest lectures/adjunct
- 2c. Create a job bank
- 2d. Create a national contact list of academic micro/nano programs (where to recruit)

## Unsorted Ideas

1. Define processes for identifying and engaging industry partnerships (ex. DACAM)
2. Understand the skill standards project
3. Develop marketing tools (Video testimonials for websites, Newsletter)

## **What are Goals vs. Objectives? Examples from Matt:**

Goal #4 Support industry and academic partnerships for the purposes of scaling

### Objectives

- Work with Industry to promote the Support Center and provide additional resources through the Industry Advisory Board (IAB) and support student interships.
- Work with Industry to leverage online offerings for their own training.
- Work with professional organizations (MEMS Industry Group, Nano NM, ACS, ATMAE) to include presentations at key conferences given by adopters to promote the integration of microsystems-based curriculum.
- Work with professional organizations to advocate, review and provide input for adaptation and adoption of SCME materials.
- Hold bi-annual Industry Advisory Board online meetings.
- Develop a quarterly online publication to share the information learned from industry and the advancements in microtechnology and micro-nano-bio education with STEM adopters.

Goal #1: Scale educational materials and models – multiply impact

### Objectives

- Scale and adapt existing SCME educational materials to be used as online courses and resources for a flipped classroom.
- Provide online student resources (short courses for educators to provide directly to their students)
- Add updated modifications and adaptations to the shared online repositories.
- Spread educational materials through online professional and social media.
- Support conference presentations and workshops by adopters.
- Work with ATE Central, nanoHUB and other resource centers to copy materials to their websites.
- Work with professional organizations to share innovations and support their educational outreach initiatives.
- Support the NACK RAIN project with the addition of the UNM MTTC desktop SEM, thus increasing SCME exposure to the nano community.
- Further expand our growing community of SCME active users.
- Increase the number of downloads, downloaders, and active users.