Nanotechnology Lab Tour

Nanotechnology Lab Tours

The equipment necessary for nanomanufacturing tasks is highly specialized and requires significant training. As such it is not feasible to have everyone work on this equipment for our first-year course. However, to gain a full appreciation for the challenges and opportunities in nanotechnology we have arranged to send small groups to various laboratories around campus to observe some of this specialized equipment. This will be done during one of the lab sessions. To prepare for your Lab Tour, be sure to read and abide by the Lab Tour Summary Requirements listed below. Bring a copy of the Lab Tour Schedule and the Walking Tour Map provided online and take notes in preparation to write and submit a summary memo as described below.

Lab Tour Summary Requirements

Summarize, in approximately one page, in memo format, the following (1 submission per team, refer to Daily Assignment List for the due date):

- Use this information for your Lab Tour Summary and retain it for discussion in your Oral Presentation at the end of the quarter:
  - Facility toured
  - Facility location
  - Facility head researcher(s) and tour guide(s) (if different)
  - Type of research performed
  - Equipment used
  - Relevance to nanotechnology
  - Relevance to your project.
  - Application of the facility. State:
    - types of products or processes it is important for
    - fields of engineering it would be used in
    - types of materials used (e.g. metals, liquids, polymers, biological compounds, etc.)
    - current problems being researched
    - challenges remaining in this field
    - whether involved in top-down or bottom-up nanofabrication (if applicable)