

**A FIB Short Course from the AIM Lab, Maryland
NanoCenter, University of Maryland**

**AN INTRODUCTION TO FOCUS ION BEAM (FIB)
FOR THE NEW FIB OPERATOR**

Focus Ion Beam (FIB) is an extremely useful and powerful tool in physical/materials science, engineering, biological and medical sciences research. The AIM Lab at NanoCenter will be offering a short course in FIB this summer break (July 2025) using our Tescan dual beam FIB/SEM system. The short course provides an introduction to the FIB for those with little or no prior experience. This course covers basic principles and knowledge of operating the FIB. In addition to lectures, there will be an emphasis on laboratory exercises that focus on instrument operation and practical applications.

- Date:** July 15, 16, 17 and 18, 2025
Lecture: 9:30 to 11:30 am.
Room: 1207 (Large Conference Room) in IREAP, ERF Building or TBA
Laboratory: Two hours/group/day (4 days, July 15, 16, 17 and 18, 2025)
Lab: FIB facility, Room 1237E, Kim Building
Limit: Maximum enrollment is 9 (3 lab groups, 2/3 persons per group)
Fee: \$465 per person, \$400 per person from the same research group. Fees for non-UMD participants will be different. Please check with the AIM Lab office.
Prerequisite: Must have SEM experience or permission from the instructor.

To enroll, please print and fill out the attached application form, and submit to the AIM Lab office by 5:00 pm, July 9, 2025 (Wednesday) at room 1234 Kim Building. Students accepted into the class will be informed by e-mail by Friday (07/11/25).

For more information regarding the FIB short course, please contact Wen-An Chiou at AIM Lab, or (301)-405-0541 or send an e-mail to wachiou@umd.edu.

Attachment: FIB Short Course Application Form

Application Form for UMD Summer (July 2025) FIB Short Course

Name: _____
Last, First Middle Initial

Department: _____

Telephone No.: _____

E-Mail Address: _____

Advisor/PI: _____

Payment: Check or UMD Worktag Account No.: _____

Course to be attended: FIB Short Course

Research Topic: _____

Is (are) there any other attendee(s) from your research group?

If yes, please provide his/her Name: _____

Will you also attend SEM and/or TEM short course? _____

Signed: _____ (Student) Date: _____

Signed: _____ (Advisor/PI) Date: _____