

**A FIB Short Course from the AIM Lab, 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 2024) 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 1, 2, 3 and 5, 2024  
**Lecture:** 9:30 to 11:30 am.  
Room: 1207 (Large Conference Room) in IREAP, ERF Building  
**Laboratory:** Two hours/group/day (4 days July 1, 2, 3 and 5, 2024)  
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, June 26, 2024 (Wednesday) at room 1234 Kim Building. Students accepted into the class will be informed by e-mail by Saturday (06/29/24).

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](mailto:wachiou@umd.edu).

Attachment: FIB Short Course Application Form

## Application Form for UMD Summer (July 2024) FIB Short Course

Name: \_\_\_\_\_  
                                Last,                                First                                Middle Initial

Department: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Advisor/PI: \_\_\_\_\_

Payment: Check or KFS No. (7-digit): \_\_\_\_\_

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: \_\_\_\_\_