

**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) technology is an extremely useful and powerful tool in research across the physical and materials science, engineering, biological and medical sciences. The AIM Lab at the NanoCenter will offer a short course in FIB during the summer 2026 break (July 2026) using our Tescan dual beam FIB/SEM system.

This hands-on short course is designed for individual with little or no prior experience with FIB. The course will cover the fundamental principles and operational aspects of FIB instrumentation. In addition to lectures, significance emphasis will be placed on laboratory exercises that provide practical experience in instrument operation and demonstrate a variety of FIB operation.

Date: Four days, July 7, 8, 9, and 10, 2026

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 7, 8, 9, and 10, 2026)

Lab: FIB facility, Room 1237E, Jeong H. Kim Building

Limit: Maximum enrollment is 9 (3 lab groups, 2/3 persons per group)

Fee: \$495 per person, \$450 per person from the same research group.

Registration fees for non-UMD participants differ. Please contact the AIM Lab office for current rates and additional information.

Prerequisite: Must have SEM experience or permission from the instructor.

To enroll in the course, please complete the attached application form, and submit it to the AIM Lab office by 5:00 pm, June 30, 2026 (Tuesday) at room 1234, Kim Building. Applicants accepted into the course will be informed by e-mail by Friday, July 3, 2026.

For more information regarding the FIB short course, please contact the AIM Lab office by phone at (301)-405-0541 or by e-mail to wachiou@umd.edu.

Attachment: FIB Short Course Application Form

