



UC San Diego



TSMC–UCSD Academy

Semiconductor Microfabrication Clean Room Program

Bootcamp training and selection, hands-on clean room training, faculty-supervised projects, and industry-aligned preparation for future semiconductor careers.



Pre-registration and Program Details

<https://forms.gle/55RfKHSgqusgwAwS6>



PROGRAM HIGHLIGHTS

- Training in semiconductor microfabrication.
- 200+ hours of hands-on clean room experience at UCSD Nano-3
- Faculty-supervised process development projects
- Strong preparation to apply to internships at TSMC AZ.



PROGRAM TIMELINE

Fall'26: Semiconductor Fabrication Bootcamp in CMRR. NANO3 Clean Room Training.

Winter'27: Semiconductor Fundamentals. Supervised clean-room project (I)

Spring'27: Supervised clean-room project (II)



WHO SHOULD APPLY?

Undergraduate engineering students in the Mechanical Engineering, Chemical Engineering, NanoEngineering, and Chemistry programs in 3rd year interested in semiconductor manufacturing.



PROGRAM LEADERSHIP

Prof. Oscar Vazquez: Program Coordinator.

Prof. Andrew Kummel: Materials Advisor.

Prof. Yu-Hwa Lo: Technology Advisor.

Build the skills for the next generation of semiconductor innovation.