



# SEMICONDUCTOR MANUFACTURING AND ADVANCES IN RECENT TECHNOLOGIES (SMART 2026)

## ABOUT SMART 2026 WORKSHOP

UCF is hosting the SMART 2026 workshop, a two-week program about semiconductor manufacturing. This third installment of the workshop series will teach key concepts, processes, and challenges while giving participants hands-on experience with advanced cleanroom equipment and opportunities to learn from industry experts.

## MODALITY

The workshop runs from June 15 to June 26 and includes lectures, interactive activities, and lab sessions. Participants who complete SMART 2026 will receive a UCF SMART Workshop certificate and a silicon Schottky diode they made themselves.



[www.ece.ucf.edu/smart/](http://www.ece.ucf.edu/smart/)

## TARGET APPLICANTS

Attendance is open to the general technical community and is not limited to current UCF students. The course suits new as well as experienced researchers interested in microfabrication techniques and applications. Preference will be given to interested faculty from high schools and colleges.

## WORKSHOP DETAILS



June 15 - 26, 2026  
9 a.m. - 4 p.m.



UCF Main Campus



Limited to 12 participants



Participants will receive a \$1000 stipend and build their own devices

REGISTER BY APRIL 11:



FOR MORE INFORMATION, CONTACT  
[SMART-WORKSHOP@UCF.EDU](mailto:SMART-WORKSHOP@UCF.EDU)

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# SEMICONDUCTOR MANUFACTURING AND ADVANCES IN RECENT TECHNOLOGIES

## WORKSHOP INSTRUCTORS

### UCF Department of Electrical and Computer Engineering

Reza Abdolvand, Ph.D.

Jaesung Lee, Ph.D.

Enxia Zhang, Ph.D.

Sreeram Sundaresh, Ph.D.

Avra Kundu, Ph.D.

### UCF Department of Materials Science and Engineering

Tengfei Jiang, Ph.D.

Parag Banerjee, Ph.D.

### UCF Department of Physics

Jing Xu, Ph.D.

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## TESTIMONIALS



“As an Intel undergraduate scholar, I get to work in the cleanroom and make sure everything is working properly and also, I am responsible for teaching the grad students and the users.”

-John Zuluaga, Electrical Engineering Undergraduate Student, Intel Scholar and SMART 2025 Student Instructor



“One of the amazing things about this program is that you can see how these different sciences work together in the semiconductor process.”

-Christina Mueller, SMART 2025 Participant, Optical Inspector at Lockheed Martin



“Hosting a workshop was really a testament to how much I've learned as an Intel Scholar.

I was able to use my knowledge to introduce new topics to the participants.”

-Gugulethu Sigogo, Electrical Engineering Undergraduate Student, Intel Scholar, and SMART 2024 Student Instructor



“I really enjoyed the cleanrooms ... and seeing all these elaborate machines and processes used to do these things we interact with all day”

- Dylan Webb, Valencia College, SMART 2025 Participant

