

ELECTRICAL & COMPUTER ENGINEERING GRAD STUDENT SEMINAR



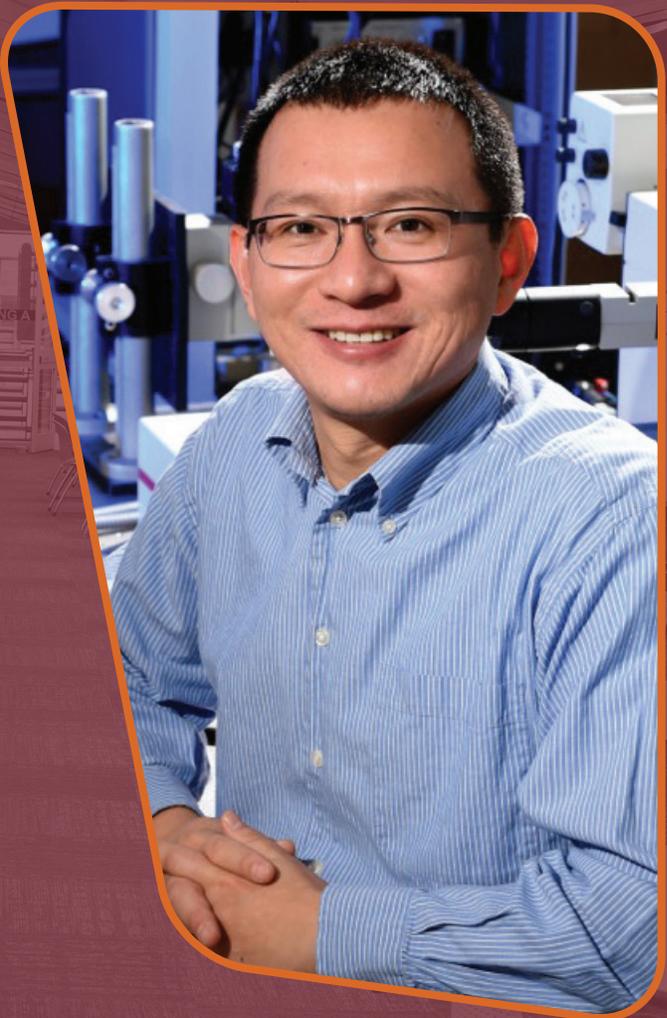
# Multifunctional materials and their applications in advanced devices and systems

Thurs., March 26, 2026  
2:00 PM  
CAPS 120

## Wei Xue, Ph.D.

Professor and Department Head, Mechanical Engineering  
Rowan University, New Jersey

This seminar will introduce Dr. Xue's research on multifunctional materials and their applications in advanced devices and systems. A major focus of his current work is the investigation of polymer-nanoparticle composites designed for cryogenic environments. By incorporating nanoscale fillers into a host polymer matrix, the dielectric, mechanical, and thermal properties of the resulting composites can be significantly enhanced. The seminar will discuss material design strategies, experimental characterization, and performance results from several composite systems. In addition, he will briefly discuss his efforts to integrate functional materials and soft robotics concepts into engineering education to enhance undergraduate STEM learning.



This event is sponsored by FAMU-FSU College of Engineering and  
Department of Electrical & Computer Engineering

