

# **APPLY NOW!**



# 2025-2026 Undergraduate Research Mentoring Program

## What is involved? (12 month commitment)

- 8 weeks summer research (June July 2025)
- Research project poster to present at ERN conference (Spring 2026)
- Regular meetings with project mentors (Aug '25-May '26)
- Mentoring sessions with education coordinators

## What you will receive:

- \$6,500 stipend for summer REU
- Summer travel and lodging fully covered
- \$1,000 stipend in Fall 2025
- \$1,000 stipend in Spring 2026
- All expenses paid trip to ERN conference (Spring 2026)
- STEM mentors
- Graduate school/internship prep sessions

## Who is eligible?

Students from the University of Arizona, Wayne State, and Spelman College who have also completed their sophomore year by beginning of program.

#### **PROJECTS**

For more information on projects visit newfos.arizona.edu

#### **Building Emerging Technologies with Surface Acoustic Waves**

Eligible Students: Wayne State, Spelman College - Location: University of Arizona
Design, build, and optimize cutting-edge Surface Acoustic Wave (SAW) devices, gain hands-on
experience in a state-of-the-art cleanroom, and develop skills for exciting careers in semiconductors,
RF technologies, and beyond.

#### Fabrication of reconfigurable acoustic devices

Eligible Students: Wayne State, Spelman College - Location: University of Arizona Synthesize phase-change materials from scratch, fabricate acoustic circuits using laser writing, and create waveguides that guide sound waves by switching between crystal and glass phases.

# Miniaturized Acoustic Waveguides for Quantum-Inspired Computing: A Finite Element Analysis Approach

Eligible Students: University of Arizona - Location: Wayne State University
Learn finite element analysis (FEA) to model miniaturized acoustic waveguides for quantum-inspired computing and design and simulate waveguides in COMSOL.

# Experimental Demonstration of Topological Modes in a Su-Schrieffer-Heeger (SSH) System

Eligible Students: University of Arizona - Location: Spelman College; Georgia Tech Modifying an air track to conduct experiments on protected edge modes AND gain skills in mechanical design, CAD, and 3D printing.

**Applications due: March 17, 2025** 



Questions? Contact Sara Chavarria spchavar@arizona.edu