UNDERGRADUATE

RESEARCH & LAB JOB FAIR

HOSTED BY ECE

Project student will be supporting:

Develop and test different optics labs for undergraduate course EC400 Engineering light

Sponsor:

Professor Anna Swan

Hours per week

Spring 2026: ~10 hours /week; Summer 2026: ~20 hours/week

Paid?

Paid all semesters

Job description

Develop course labs that give students optics skill, insight into properties of light and application areas.
The research student(s) will do each lab, review instructions, check equipment for several work stations, and put together a purchase list for needed components. Concepts: Coherence, interference, diffraction, Fourier optics, polarization. Application areas: light sources, Koehler illumination, interferometers, spectroscopy, image processing, Optical detectors, remote sensing and communication.

Qualifications:

Minimum 2 hour gaps in schedule for work in lab
Strong interest in learning optics
Ability to troubleshoot and work independently
Good communicator
Ideally a student with junior (sophomore) standing with interest in TA position Spring 2027
Bring CV, transcript, and a short cover letter stating you background and interest.

Academic requirements
PY212, preferably also PY313