

FACULTY MENTOR

Yuhwa Lo

PROJECT TITLE

Microfluidic and photonic biosensors

PROJECT DESCRIPTION

Description: Use microfluidic and photonic technologies to produce biosensors for point of care.

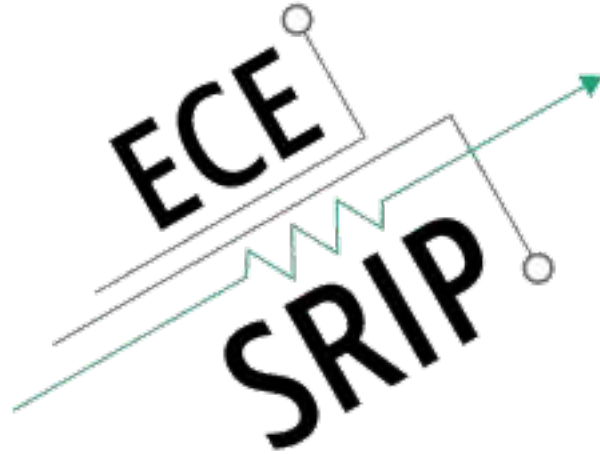
INTERNS NEEDED

2 MS

PREREQUISITES

Required Qualifications:

1. Student must have background in optics, electronics
2. Background in biology is preferred



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Yuhwa Lo

PROJECT TITLE

Single photon detectors for sensing and imaging

PROJECT DESCRIPTION

Description: Produce ultrahigh sensitivity photodetectors for visible and IR imaging, sensing, and quantum communication using 2D materials, disordered materials, and perovskites.

INTERNS NEEDED

1 MS

PREREQUISITES

Required Qualifications:

1. Student must have taken Semiconductor physics and devices course (ECE230A)
2. Preferably condensed matter (solid state) physics course
3. Must have GPA higher than a 3.6