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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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