UCLA Samueli School of Engineering

LIN LAB

University of California, Los Angeles

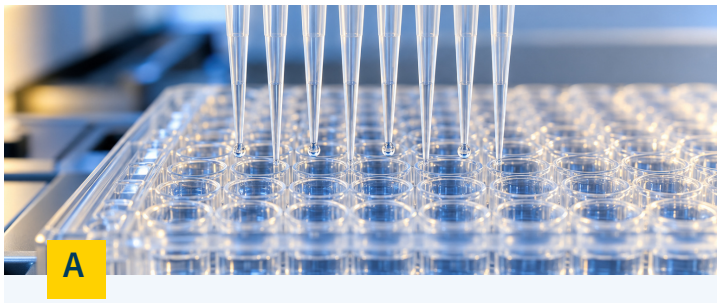
Master's Thesis Internship

Mechanobiology, AI and tissue engineering

Explore how cell metabolism shapes growth and identity, with training in live-cell imaging, biosensor engineering and AI modeling.

DURATION	LOCATION	START DATE
6-9 months	Los Angeles, CA	By arrangement

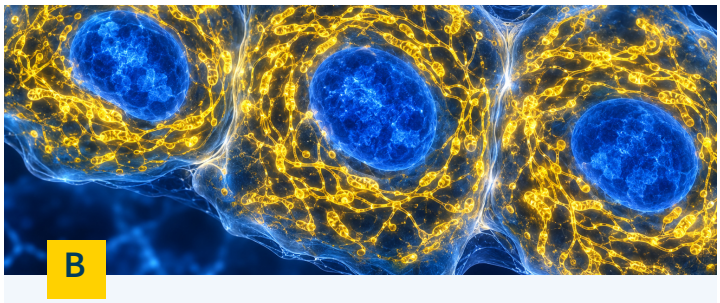
Choose one of two research tracks



A

AI-integrated drug discovery

Screen drug responses in colorectal cancer or polycystic kidney disease models. Generate high-content imaging data for large language model (LLM) "digital twins" to support virtual therapy screening.



B

Biosensors and cell dynamics

Engineer fluorescent biosensors to visualize organelle remodeling during tissue development. Use live-cell microscopy to study how biomechanical and biochemical signals regulate cell structure and metabolism.

Your preparation

- Cell biology and metabolism; cell culture, lab safety, molarity and dilutions.
- Careful data recording and advanced English.
- Biosensor track: basics of plasmids/cloning and fluorescence microscopy.

Compensation to be discussed. On-site research; remote work only by exception.

Apply to join the Lin Lab

Send your CV or resume to Prof. Neil Lin.

neillin@g.ucla.edu

linlab.seas.ucla.edu