**Computer Science Students**

- Are you a student looking for an internship in biomedical research?

- Do you have programming skills?

- Do you want to develop imaging analysis algorithms that will help understand mechanisms of diseases including Parkinson’s disease, Huntington’s disease, and ALS?

- Do you want to be a part of a group of neuroscientists carrying out cutting edge research at the Gladstone Institute of Neurological Disease (Mission Bay, UCSF)?

We have an exciting opportunity for 2-3 college students to take part in drug discovery research.

About our lab: Our lab consists of BS, MS, and PhD level neuroscientists studying neurodegenerative diseases such as ALS, Parkinson’s disease, and Huntington’s disease. We use different cellular model systems, including human stem cells, to answer basic biology questions and discover new drugs for these terrible diseases. At the core of our research is a novel microscopy system that we have invented to collect images and time-lapse movies of fluorescently-labeled neurons in a high throughput format. We use our microscopy system to extract various types of information about how patient stem cell-derived neurons grow and respond to candidate drugs that will someday be tested in patients.

Responsibilities: You would work under the supervision of biologists and computational biologists in our lab to write code that would identify objects in images taken with our microscopes. Everyday, our robotic microscopes generate gigabytes of complex images and time-lapse movies of neurons. We need your help to develop image analysis algorithms to extract features from these images. These algorithms would help us automate our analysis pipeline and discover new drugs that could someday help millions of patients.

During the first month, you would work from our lab where we would train you. Once you’ve been trained, you may use your own computer and work from home if you like. You also have the opportunity to attend our weekly lab meetings and learn biology.

Hours: 10-20 hours per week.

Salary: Minimum wage.

Education: Completion of college introductory biology class and ability to write code.

Interested parties should contact Gaia Skibinski at gskibinski@gladstone.ucsf.edu