

HIRING: CS STUDENT DEVELOPER

(Systems Engineering + Web Development)

Pipes Lab – Pacific Biosciences Research Center

<https://pipes-lab.pbrc.hawaii.edu/>



The **Pipes Lab** is seeking a Computer Science Graduate Student to join our lab as a casual hire. We develop high-performance software for analyzing massive biological datasets. We need a developer who can handle large-scale backend processing and help deploy our tools to the web.

The Role

You will work on a variety of computational challenges, starting with building pipelines to process Terabytes of raw data on our internal high-performance servers. As projects mature, you will help design and maintain web interfaces to make these tools accessible to the scientific community.

What You'll Work On

- **Systems Optimization:** Configuring and optimizing Python/C++ workflows on our local high-memory Linux servers (64-core, 1TB RAM).
- **Data Engineering:** Managing input/output strategies for massive datasets to prevent bottlenecks on local storage.
- **Web Deployment:** Developing front-end interfaces and setting up web servers to host our computational tools.

Who We Need

- Strong Linux/Unix command line skills.
- Proficiency in Python.
- **Web/Front-end experience is a major plus** (JavaScript, Flask/Django, React, etc.).
- **NO BIOLOGY BACKGROUND REQUIRED.**

Why Apply?

- Gain hands-on experience managing large-scale data on high-performance hardware.
- Build full-stack applications that will be used by researchers globally.
- Flexible schedule (Casual Hire).

Compensation: \$40.00 / hr

Interested?

Send your resume and a link to your GitHub (if available) to:

lpipes@hawaii.edu