

Position: RAS Cancer Biology Student Researcher

Location: Remote

Member Type: Unpaid Voluntary Internship

Organization Description

The Open Health Systems Laboratory (OHSL) is a public benefit corporation that builds, supports and manages project teams to improve research and diagnosis outcomes. We have technical expertise in utilizing the latest developments in information technology, namely informatics, communication, natural language processing, and data collection and mining to bring solutions to our clients.

OHSL was originally created in 2008 as a program of the International Network for Cancer Treatment and Research (INCTR), a not-for-profit organization dedicated to helping build capacity for cancer research and treatment. In 2011, OHSL incorporated as an independent non-profit organization, and re-incorporated in 2017 as a public benefit corporation (B-Corp).

Internship Description

JDACS4C (Joint Design of Advanced Computing Solutions for Cancer), a research initiative from the National Cancer Institute, has a research pilot project modeling the role of RAS proteins in cancer. The RAS family of proteins is involved with signal transduction pathways that influence cell growth and reproduction. More than 30 percent of cancers are driven by mutations of proteins in the RAS family.

Interns will develop skills in reading research papers, delve into protein modeling in the cell biology of cancer, and help identify areas of future exploration on the leading edge. These future explorations are in the areas of applying artificial intelligence to determine therapeutic possibilities. Tasks include identifying relevant research material, analyzing existing literature, and summarizing key concepts across research papers in a blog post for OHSL. This could be an initial step toward a paper in the intern's research journey.

This internship is a fantastic opportunity for high school students interested in pursuing careers in biomedical research and applied math.

Qualifications

- Currently enrolled in high school
- Strong coursework in biology and chemistry
- Interested in building skills for research
- Need to have your own computer with Internet connection

Hours

Summer interns are expected to work a schedule with a minimum of 10 hours per week. The internship can be extended beyond the summer and is flexible.

How to Apply

Apply at this link: <https://ohsl.us/high-school-internship-recruitment-program>

In your resumé, please include relevant coursework and extracurricular activities/hobbies.