

Position: Medical Image Privacy 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

DICOM® — Digital Imaging and Communications in Medicine — is the international standard for medical images and related information. It defines the formats for medical images that can be exchanged with the data and quality necessary for clinical use. When working with DICOM® images; for example, MRI scans of cancer patients, it is of paramount importance to protect patient privacy.

Interns will explore the challenges regarding the use of medical images and use their Python knowledge for a reference implementation of pre-processing DICOM® images. Tasks include reading research and ethics papers, understanding the nuances of patient privacy for machine learning, writing Python code using appropriate DICOM® libraries, and summarizing findings in a blog post for OHSL.

This internship is a fantastic opportunity for high school students interested in pursuing careers in the interdisciplinary field at the intersection of law and medical technology.

Qualifications

- Currently enrolled in high school
- Basic experience with Python
- Interested in building skills for research
- Need to have your own computer with Internet connection and a Python IDE

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.