



## Deep Learning Scientist Intern Summer 2022

We are looking for a Deep Learning Scientist Intern to join Avenda Health to help us rid the world of cancer! Join our world class team of scientists, clinicians and engineers for a summer and experience firsthand how clinical research can be used to improve the lives of patients. You will explore novel applications of deep learning to streamline and standardize patient care in the oncological workflow. The software you create will be used to help treat thousands of cancer patients and improve their quality of life.

Who is our ideal candidate? You have experience working with teams and seeing your projects to completion. You are comfortable working in a multi-modal domain and image registration is a familiar term to you. You are always learning and value hearing from different perspectives. And above all else, you have a passion for improving healthcare and using your technical skills to benefit the lives of patients.

### Notes

- Headquarters are in Culver City, CA. Position can be on-site or remote.
- This is a full-time, paid internship position
- Internship is for Summer 2022 with potential to continue into subsequent semesters

### Responsibilities

- Research, design, and implement algorithms in Deep Learning for Medical Image Analysis problems.
- Design experiments and perform studies to show the value of your work on real-world data
- Advance the state of the art and make a real clinical impact – work towards publications and treat patients in parallel
- Present your findings to internal and external stakeholders to push your research out of the lab and into clinical practice

### Skill Requirements

- A current Ph.D. or M.S. student studying Computer Science, Electrical Engineering, Biomedical Engineering, Statistics, or a similar field
- Hands on experience with deep learning and similar techniques as demonstrated through publications, ongoing research, or personal projects.
- Proficiency in Python (numpy, scipy, sklearn, PyTorch) and/or MATLAB
- Knowledge of medical imaging fundamentals (MRI + Ultrasound is a plus)

### Desired Skills

- Experience with medical standards and frameworks (DICOM, ITK/VTK)

- Experience with source control tools for data and code (dvc and git)
- Experience with generating and manipulating 3D image masks and 3D surfaces

Avenda Health is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sexual orientation, gender identity, age, or veteran status. Reasonable accommodations may be made to enable individuals with disabilities to perform essential job functions.

If interested, please send your resume and a brief introduction to [josh@avendahealth.com](mailto:josh@avendahealth.com) with the subject line "Deep Learning Scientist Intern Summer 2022"