



MASSACHUSETTS
GENERAL HOSPITAL



HARVARD
MEDICAL SCHOOL

Job Description

Job Title: Postdoctoral Research Fellow
Hire Date: Negotiable

Last Update: 9/7/2021
Work Schedule: 40 hours per week

GENERAL DESCRIPTION

The Laboratory of Medical Imaging and Computation at Radiology Department of the Massachusetts General Hospital, directed by Dr. Synho Do, PhD, is seeking a Postdoctoral Research Fellow for multiple projects related to application of artificial intelligence in medical imaging and other healthcare issues. The position will independently conduct research as well as collaborate with other members of the team. Our group focuses on developing innovative systems and tools to analyze medical images to improve patient care from diagnosis to treatment. Specifically, we apply machine learning to create automatic diagnostic systems with high accuracy and quality by closely collaborating with physicians, software engineers, data scientists, and other researchers in the field. We are looking to expand our scope of research, and you will join a collaborative team of diverse backgrounds and expertise in a vibrant and dynamic environment.

PRINCIPAL DUTIES AND RESPONSIBILITIES

- Solve engineering and machine learning problems and produce high-quality code
- Design, develop, deploy, and maintain machine learning applications
- Work closely with other team members to find answers to various research questions
- Develop abilities and understanding of application of machine learning in the field of healthcare and medical imaging

MINIMUM QUALIFICATIONS

- PhD or equivalent in Computer Science, Biomedical Engineering, Electrical Engineering, Information Science, or related field
- Excellent academic track record
- Proficiency with Python and/or other programming languages, e.g., JavaScript, Java, C/C++, C#, MATLAB, etc.
- Proficiency with Deep Learning Frameworks, e.g., Pytorch, Tensorflow, etc.
- Experience with cloud software services (AWS, GCP, Azure, etc.) for scalability

DESIRED QUALIFICATIONS

- Knowledge of basic statistics, machine learning and data analytics techniques
- Solid understanding of machine learning techniques
- Commercial experience implementing Machine Learning algorithms in real world environments.

If you are interested in the position, please send your CV to Synho Do, PhD: sdo@mgh.harvard.edu



Laboratory of Medical Imaging and Computation
Department of Radiology, Massachusetts General Hospital
25 New Chardon St, Suite 400B, Boston, MA, 02114

lmic.mgh.harvard.edu