



FDA Research Fellow Positions in artificial intelligence/machine learning (AI/ML) applied to Medical Imaging

The Division of Imaging, Diagnostics, and Software Reliability (DIDSR) at the Office of Science and Engineering Laboratories (OSEL) in the FDA is currently seeking highly qualified candidates to fill research fellow positions in artificial intelligence/machine learning (AI/ML) applied to medical image segmentation and digital pathology. The fellow will play a key role in collaborative projects involving scientists/professors within and outside of the FDA (Washington Univ. at St Louis School of Medicine, Harvard Medical School, etc.) to develop and evaluate AI/ML algorithms for image segmentation, develop and assess imaging biomarkers using digital pathology whole slide images. Selected research fellows will have a chance to interact with a multidisciplinary group of scientists and to learn about regulatory science at the FDA.

Candidates should have a graduate degree earned within the past five years in a relevant field such as computer science, biomedical engineering, electrical engineering, medical physics or a relevant field and be proficient in communicating in English. Preferred candidates should have demonstrated academic or professional experience in some of the following areas:

- developing and analyzing AI/ML methods (CNN, RNN, GAN, etc.),
- programming with languages such as Python (including scientific stack: NumPy, SciPy, scikit-learn, etc.), R, or Matlab, and deep learning frameworks (TensorFlow, PyTorch, etc.),
- experience with image segmentation, processing and data management
- experience with image analysis, digital pathology, or statistical analysis of diagnostic data

The positions, with competitive compensation, will be located in the FDA White Oak campus in Silver Spring, Maryland within the metropolitan DC area.

The positions are for one year but renewable for the second year if successful performance is demonstrated. Successful fellows may also be considered for future FDA staff positions. US citizenship or permanent residency is not a requirement. However, the selected research fellow must meet applicable security requirements which include a background check and a minimum of 3 out of the past 5 years' residency status in the US.

Apply by email to Dr. Weijie Chen, at weijie.chen@fda.hhs.gov including CV, three reference contacts and a cover letter using the words "AI/ML: medical imaging" in the email Subject field. Applicants should also indicate their dates of availability.