



**Division of Imaging, Diagnostics, and Software Reliability
Office of Science and Engineering Laboratories
CDRH, FDA**



FDA Research Fellow Position in artificial intelligence/machine learning (AI/ML) applied to digital pathology

The Division of Imaging, Diagnostics, and Software Reliability (DIDSR) at the Office of Science and Engineering Laboratories (OSEL) in the FDA is currently seeking a highly qualified candidate to fill a research fellow position in artificial intelligence/machine learning (AI/ML) applied to digital pathology. The fellow will play a key role in a collaborative project involving scientists/pathologists 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 deriving imaging biomarkers from whole slide images and related clinical factors to predict patient outcomes. The selected research fellow 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, 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.) or C, and deep learning frameworks (TensorFlow, PyTorch, etc.),
- experience with image analysis, digital pathology, or statistical analysis of diagnostic data
- experience with image processing and data management

The position is tentatively scheduled to begin January 21st, 2021 and will be located in the FDA White Oak campus in Silver Spring, Maryland within the metropolitan DC area.

The position is for one year but renewable for the second year if successful performance is demonstrated. Successful fellows may also be considered for future FDA staff researcher 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 the project principal investigator, 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.