# MULTIPLE OPENINGS IN AI/ML MEDICAL IMAGING RESEARCH

Join a diverse and multidisciplinary team of scientists contributing to ensure regulatory readiness for emerging and innovative medical technologies and develop appropriate evaluation strategies and testing standards. These are unique opportunities to conduct laboratory-based regulatory science research, contribute expertise to FDA's evaluations and develop reliable, standardized test methods and computational models to advance efficient regulatory pathways. Openings include multiple positions in **medical artificial intelligence and machine learning methods** (AI/ML) developing applications in image and/or signal processing algorithms, deep learning networks and methods, and computer vision.

**Requirements:** Applicants should possess a degree in Engineering, Physics, Computer Science, Mathematics or related field. Applicants who have completed part of their education outside the US must have their foreign degrees evaluated by an accredited organization. US and non-US citizens, and permanent residents are encouraged to apply. Candidates must meet applicable security requirements and at least 3 out of the past 5 years with residency in the US.

**Duty Location:** DIDSR/OSEL/CDRH/FDA, White Oak campus, MD (Washington, DC metropolitan area).

Apply by email to To-Oanh.Pham@fda.hhs.gov including CV and the names of three references with a cover letter describing your interests and career goals by July 31, 2020.

**Description of AI/ML opportunities:** We are seeking applicants to work closely with a multidisciplinary group of scientists on several cutting-edge research projects related to the application of deep learning for analysis of imaging and time series data. Applicants should have graduated (within last 5 years) or currently in graduate school in electrical engineering, computer science, or relevant field, have demonstrated experience (including publications, coursework, or work experience) applying image and/or signal processing algorithms. In addition, candidates should have a background in one or more areas of machine learning, deep learning (CNNs, RNNs, LSTMs, GANs), computer vision and solid programming skills in Python. Preferred qualifications include publications in major CV or ML conferences and journals, experience with medical imaging AI/ML areas (mammography, CT, digital pathology, endoscopy, etc.), weakly-supervised/semi-supervised/self-supervised training, experience with training ML models in data-starved conditions, experience with domain adaptation methods or with deep learning image reconstruction or denoising.