Cardiovascular MRI Post-doctoral Research Positions

UCLA Diagnostic Cardiovascular Imaging Research Laboratories

Investigators in the UCLA Diagnostic Cardiovascular Imaging Research Laboratories seek enthusiastic candidates for funded positions. Projects include developing and applying advanced cardiovascular magnetic resonance imaging methods to detect and quantify indices of cardiovascular disease. **We seek two post-doctoral candidates (PhD, MD, MD/PhD, or equivalent).** Candidates should possess excellent oral and written communication skills and the ability to work independently as well as in a team. Candidates will work with graduate students, clinical fellows, and faculty members. There is no expectation for the post-doctoral candidate to teach formal courses or serve as teaching assistants unless this skill is desired.

**PhD candidates** should hold a degree in Biomedical Engineering, Electrical Engineering, Biomedical Physics, Mechanical Engineering, Computer Science, or a closely related field. Desired skills include experience in cardiovascular MRI including 4D flow MRI, Siemens IDEA and ICE programming, image reconstruction and processing, and cardiovascular disease research. The candidate is expected to be proficient in MATLAB, C++, Python, TensorFlow or equivalent software. Experience in computational fluid dynamic modeling of the cardiovascular system, machine learning, database architecture and development is also desired. First author publications are expected.

**MD or MD/PhD candidates** should have experience in cardiovascular MRI research and proficiency in protocol development, image acquisition, image processing, and advanced biostatistical analysis is expected. Familiarity with cardiovascular MRI post-processing software packages such as MedisSuite, Circle CMR42, Materialise Mimics, Artery, or similar software as well as statistical software (STATA, R, SAS, SPSS, etc..) would be helpful. Prior experience in congenital heart disease research, perfusion or parametric MRI, preclinical swine models of ischemic heart disease, 4D flow MRI, image segmentation, or advanced image visualization is also desired. First author publications are valued.

Please send to the following Principal Investigators (1) curriculum vitae, (2) one-page research statement, and (3) name/contact for three references.

J. Paul Finn, MD  
Kim-Lien Nguyen, MD  
pfinn@mednet.ucla.edu  
kimliennguyen@mednet.ucla.edu

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