Research Assistant Professor / Postdoctoral Research Associate for MR Imaging Technology Development

Applications are invited for a Research Assistant Professor position and a Postdoctoral Research Associate position in the MR Imaging Research Program at the Department of Radiology, Keck School of Medicine of the University of Southern California (USC). The focus of these positions will be on the development and translation of advanced MR imaging technologies (i.e., MR sequences, image reconstruction algorithms, data modeling and analysis, machine learning) for clinical applications such as multidimensional imaging, quantitative imaging, and imaging-guided therapy and intervention for cardiovascular, body, and neurological diseases.

The requirements for this position include but are not limit to:
- PhD in biomedical engineering, electrical engineering, computer science, imaging, mathematics, physics, biophysics, medical physics, or a related field within the past 5 years.
- Outstanding academic research record as evidenced by high-impact journal publications and conference presentations.
- A solid understanding of MR physics and extensive experience in pulse sequence development, image reconstruction, machine learning, and image post-processing would be advantageous.
- Prior experience in body MR, cardiovascular MR, or neurological MR, and/or experience with Siemens IDEA/ICE programming environment are desirable, but not required.
- Excellent communication and written skills in English (spoken and written).

The Keck School of Medicine and the Department of Radiology are committed to establishing a program to focus on cutting-edge MR imaging research for diverse clinical applications. The research members, under the supervision of the Program Director Prof. Zhaoyang Fan, will have valuable opportunities to collaborate with a multidisciplinary team of physicians, imaging scientists, medical physicists, and data scientists. They will also be encouraged to pursue new research directions, apply for internal and early career grants, and help supervise graduate students from the Viterbi School of Engineering. Exceptional infrastructure and resources at USC are available for motivated research staff, such as state-of-the-art human MR systems (e.g., 0.55T, 1.5T, 3.0T, and 7.0T), small animal PET-MR facility, Radiomics Lab, 4D Quantitative Imaging Lab, and Center for Advanced Research Computing.

USC is an equal opportunity, affirmative action employer. Competitive compensation will be offered and commensurate with experience. Interested applicants please contact Dr. Zhaoyang Fan (Zhaoyang.Fan@med.usc.edu) with a cover letter, curriculum vitae, and Statement of Research. Consideration of applications will begin immediately and continue until the position is filled.