

UNIVERSITY OF SOUTHERN CALIFORNIA  
Keck School of Medicine  
Department of Radiology  
MR Imaging Research Program

## **Postdoctoral Fellow Position – MR Imaging Technology Development**

Applications are invited for 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 main focus of this position will be on the development and translation of advanced MR imaging technologies (i.e. MR sequences, image reconstruction algorithms, machine learning methods) for clinical applications such as multidimensional quantitative imaging of cardiovascular, body and neurological diseases, and MR-guided therapies and interventions.

The requirements for this position include but are not limit to the followings:

- 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 Department of Radiology is committed to establishing a program focused on cutting-edge MR imaging research. Excellent infrastructure and resources within the department and on the Health Sciences Campus are available for motivated research staff, such as state-of-the-art human imaging systems (e.g. 1.5T Sola, 3T Vida, 3T Prisma, 7T Terra from Siemens), small animal PET-MR facility, Radiomics Lab, and 4D Quantitative Imaging Lab. Successful candidates will have the opportunity to collaborate with a multidisciplinary team of physicians, imaging scientists, medical physicists, and data scientists, and will also be encouraged to pursue new research directions. Performance-based promotion to junior faculty or scientist level is highly expected in line with the strategic development plan of the program.

USC is an equal opportunity, affirmative action employer. Competitive compensation will be offered and commensurate with experience. Interested applicants please contact MR Imaging Research Program Director Dr. Zhaoyang Fan ([Zhaoyang.Fan@med.usc.edu](mailto:Zhaoyang.Fan@med.usc.edu)). Consideration of applications will begin immediately and continue until the position is filled.