

Postdoctoral Research Associate – AI Development in MRI

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 of advanced artificial intelligence techniques for the optimization of MR data acquisition and analysis towards clinical applications such as diagnosis, prognosis, and early detection of cardiovascular, body and neurological diseases. 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.

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

- PhD in electrical engineering, computer science, biomedical engineering, bioinformatics, mathematics, physics or a related field within the past 5 years.
- Prior experience with machine learning, deep learning development.
- Strong programming skills with Python, Matlab, C++, Tensorflow, Keras.
- Outstanding academic research record as evidenced by high-impact journal publications and conference presentations.
- A solid understanding of MR image acquisition, reconstruction and post-processing would be advantageous.
- Excellent communication and written skills in English.

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. 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). Consideration of applications will begin immediately and continue until the position is filled.