A post-doctoral fellow or PhD student position in parallel RF transmission (pTx) at ultrahigh field is available at the Laboratory of FMRI Technology (LOFT www.loft-lab.org) at the Stevens Neuroimaging and Informatics Institute of USC (http://www.ini.usc.edu). The postdoc fellow or PhD student will be mainly responsible for developing advanced pTx technologies at ultrahigh field of 7T, and will be involved in hardware development such as MR coils. The focus of the research will be developing and optimizing pTx for arterial spin labeled (ASL) perfusion and functional MRI and other advanced quantitative MRI methods at 7 Tesla with clinical applications in neurodevelopment, cerebrovascular diseases, neurodegenerative diseases and neuromodulation.

Through the Laboratory of FMRI Technology (LOFT) and Laboratory of Neuro Imaging (LONI) at the Stevens Neuroimaging and Informatics Institute at USC, the postdoctoral fellow or PhD student will have access to the ideal environment for neuroimaging research. The Center of Image Acquisition (http://cia.ini.usc.edu) houses a state-of-the-art 3T Prisma and 7T Terra MR scanners for human brain imaging. The LONI image data archive (IDA) is one of the largest brain image collections that hosts various imaging repositories such as ADNI. The datacenter of LONI boasts 3,328 cores and 26 terabytes of aggregate memory space for AI based brain image analysis and cloud computing for image reconstruction.

The ideal candidate should have a PhD for postdoc and BS for PhD student in Physics, Biophysics, Biomedical Engineering, Computer Science, or related fields. Prior research experience (publications and programming skills) in medical imaging is encouraged and a definite plus.

Interested applicant please contact:
Danny JJ Wang, PhD, MSCE
Professor of Neurology and Radiology
Director of Imaging Technology Innovation
USC Stevens Neuroimaging and Informatics Institute
2025 Zonal Ave, Los Angeles CA 90033
Email: jj.wang@loni.usc.edu  Phone: 310-948-3390