Job Opportunity: Magnetic Resonance Scientist  
Location: University of Kansas Medical Center, Kansas City, KS, USA

Department of Radiology at the University of Kansas Medical Center is seeking an individual dedicated in the area of Magnetic Resonance (MR) technology and signal processing for a position of Postdoctoral Fellow or (Senior) Research Scientist, depending on their qualification and career goals. We are a multi-disciplinary team that focuses on the development of cutting-edge technology in the areas of magnetic resonance imaging (MRI) and magnetic resonance spectroscopy (MRS). Ideal candidate should have a strong background in programming and signal processing. The appointment will be for two to three years with potential renewals.

The specific areas of research for this position include developing advanced MR signal processing and data analysis strategies for whole-brain metabolic imaging, non-Fourier based MRS localization and removal of unwanted signals such as water and lipid signals for robust metabolic imaging with applications to aging, neurodegeneration and other neurological conditions. Ongoing funded projects include investigating the effect of lifestyle interventions (e.g., diet and exercise) on brain metabolism to enhance brain health of older adults and people with various neurological disorders.

The University of Kansas has an MR imaging center for research, the Hoglund Biomedical Imaging Center (HBIC). The HBIC is equipped with a research-dedicated 3 T Siemens Skyra MR scanner, High-Density electroencephalography (EEG) capability for clinical studies and 9.4 T Agilent/Bruker MR scanner for preclinical studies. Additional state-of-the-art Siemens scanners including 3 T MR scanner (Cima-X) and a photon-counting CT scanner are expected to be installed in later 2023.

HBIC provides cutting-edge research imaging capabilities for studies to understand disease, injury, and normal function in humans and animals within the university and nearby institutions.

Responsibilities include:
• Developing advanced MR data processing techniques
• Analysis and interpretation of MR data
• Writing papers and assisting grant applications

Requirements include:
• Ph.D. or Master’s degree in Electrical Engineering, Computer Science/engineering, MR Physics, or equivalent fields
• Proficiency in scientific programming using MATLAB, Python and C++

Preferred Qualifications:
• Experience in MRS data acquisition and processing
• Experience in MR data processing packages including FSL, SPM and FreeSurfer
• Experience in machine learning
• Experience in scientific writing and publications
• Excellent communication (verbal and written) and interpersonal skills

Follow the link below to apply:
https://apptrkr.com/4121208
For questions, please contact Phil Lee, PhD., Professor of Radiology, Associate Director of the Hoglund Biomedical Imaging Center (plee2@kumc.edu).

About the University of Kansas Medical Center (KUMC)
The University of Kansas Medical Center’s mission is to educate exceptional health care professionals through a full range of undergraduate, graduate, professional, postdoctoral and continuing education programs in the schools of Medicine, Nursing and Health Professions. KU Medical Center also advances the health sciences through world-class research programs; provides compassionate and state-of-the-art patient care in an academic medical center environment; and works with communities in every Kansas county to improve the health of Kansans. Learn more at http://www.kumc.edu/.

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