MRI Staff Scientist – Pulse Sequence & Reconstruction Techniques

The Center for Advanced Imaging Research (CAIR: https://www.medschool.umaryland.edu/cair/) within the Department of Diagnostic Radiology & Nuclear Medicine at University of Maryland School of Medicine has an opening for an MRI Staff Scientist with a background in pulse sequence development and/or reconstruction techniques. The MRI scientist will be involved with an NIH-funded project to develop real-time adaptive motion correction for MRI, and applications to clinical research. The staff will also provide support for other research projects. This is a full-time staff position.

The CAIR houses research-dedicated Siemens whole-body 3T Prisma and 3T PET-MR scanners, a 9.4T animal scanner, as well as a highly accurate real-time optical system to track head motion. The Center also has a GE SpinLab dynamic nuclear polarizer suitable for preclinical and clinical applications. Research projects are supported by an in-house Siemens engineer.

The ideal candidate would have a Ph.D. degree in Electrical Engineering, biomedical engineering, Physics or related field with 3-5 years of experience in MR pulse sequence development, and / or experience with modern reconstruction techniques. Pulse sequence development, working knowledge on a Siemens platform, as well as experience with prospective motion correction will be considered a plus. Additional information can be found here:

Interested candidates should send an email to Thomas Ernst, Ph.D. (Thomas.Ernst@umm.edu) with a cover letter highlighting key qualifications and experience, current CV and contact information for three referees.

The University of Maryland at Baltimore is an AA/EOE/ADA Employer and encourages applications from women and members of minority groups.