Post-Doctoral Research Fellow in Quantitative Brain Imaging

The MR Research Facility (MRRF) at the University of Iowa in collaboration with the Free Radical and Radiation Biology Program is seeking a highly qualified motivated individual to fill an NIH-funded T32 Training Grant Post-Doctoral Fellowship position in MR Physics. This position will join a vibrant group that is developing a mechanistic understanding of therapy responses using a translational imaging approach in humans and small animals. The research in the MRRF is focused on the development of high resolution quantitative metabolic imaging techniques. The MRRF has a research dedicated whole-body 3T scanner (GE 750W), whole-body 7T scanner (GE 950), and small animal 7T scanner (GE 901). In addition, the successful applicant will interact with faculty in the Department of Radiation Oncology, which has a dedicated Siemens 3T MRI scanner used for treatment planning as well as an Elekta MRI-Linac that is currently under installation and scheduled to go live clinically in the spring of 2019. The MRRF is a part of the Iowa Institute for Biomedical Imaging and works closely with faculty both from the Colleges of Medicine and Engineering.

Applicants must have a PhD degree in Biomedical Engineering, Neuroscience, Biology, Physics, Medical Physics, or a related discipline. In addition, applicants must be U.S. citizens, residents of U.S. possessions (e.g., American Samoa, U.S. Virgin Islands) or permanent residents of the U.S. Candidates with expertise in MR pulse programming, MR spectroscopy, and image analysis are preferred. Successful candidates must demonstrate expertise in MR Physics, computer programming, critical scientific thinking, and creativity. Applicants will be expected to help develop novel MR pulse sequences for assessment of tumor metabolism and response to therapy. In addition, applicants will be expected to develop image analysis pipelines, analyze data, prepare manuscripts for publication, and collaborate with a highly diverse and motivated group of investigators.

The University of Iowa provides a rich environment in which faculty, post-doctoral fellows, research associates and graduate/undergraduate students regularly interact and conduct collaborative research studies. Candidates must have excellent communication and interpersonal skills. The appointment is funded for one year from the date of hire with the possibility of reappointment contingent on performance.

For additional information contact:
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