Postdoctoral Researcher and Ph.D. Student Positions - MR Imaging Technology Development
The State University of New York at Buffalo

The Department of Biomedical Engineering, State University of New York at Buffalo (SUNY Buffalo), invites applications for NIH funded postdoctoral researcher and Ph.D. student positions in Laboratory of Advanced Biomedical Imaging, a multi-disciplinary research center in biomedical imaging at SUNY Buffalo. Related research resources include a research dedicated 3T wholebody MR system, an animal 9.4T MRI system, a large-bore PET/CT scanner, supercomputing facilities, numerical simulation and modeling facilities, and electronic design and mechanical fabrication labs. There are opportunities to collaborate with top scientists, research groups in the fields of MR cancer imaging, neuroimaging, musculoskeletal imaging, interventional MR imaging, and high field MR, within School of Medicine and Biomedical Sciences, School of Pharmacy and Pharmaceutical Sciences, Department of Electrical Engineering, and Roswell Park Cancer Institute. The duties include the development of parallel imaging and compressed sensing based fast imaging technology and machine learning in imaging reconstruction, and the development of MR signal excitation and reception devices and related RF hardware, or development of ultra-short TE (UTE) and zero-TE (ZTE) MR imaging sequence for human connective tissues. Strong computer skill, electromagnetic field simulation and RF hardware design experience, and compressed sensing or parallel imaging algorithm/recon fluency will be essential. Technical writing/presentation skills are a must. Training or experience in one or more of the following areas-- UTE/ZTE pulse sequence design, high resolution imaging, or machine learning, is desired. Familiarity with diverse computer operating systems and design-related software, such as Ansys, Comsol, AUTOCAD, Solidworks, C/C++, Matlab, is a plus. Successful applicants must be motivated to MR research and capable of working independently.

Salary or compensations will be commensurate with the candidate’s qualifications. Applicants for postdoctoral researcher positions must have a Ph.D. in Biomedical Engineering, Electrical Engineering, Physics or related field. Interested candidates should send a copy of curriculum vitae and a list of three referees to the following contact.

Contact Information for interested candidates:
Professor Zhang
Department of Biomedical Engineering
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The State University of New York at Buffalo is an affirmative action, equal opportunity employer and complies with all applicable laws and regulations.