University of Pittsburgh | 7 Tesla Bioengineering Research Program

Department of Bioengineering
Swanson School of Engineering
7 Tesla Bioengineering Research Program
& RF Research Facility

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Position: Postdoctoral Associate in 7 Tesla MRI

Location: Pittsburgh, PA, United States

Description:

The 7 Tesla Bioengineering Research Program (7TBRP) in the Department of Bioengineering at the University of Pittsburgh invites applications for a Postdoctoral Associate position under the supervision of Dr. Tamer Ibrahim. With funding for our program from over 35 actively funded federal and locally funded grants, we are seeking to expand our team. We are pursuing two qualified individuals to assist in research projects funded by the National Institutes of Health for 7 Tesla neuroimaging. Our program has several projects immediately available, including:

- Processing 7T MRI data for analysis of brain function, structure, volumes, etc.
- Advancements in AI reconstruction of structural imaging data
- Optimization of MR acquisition protocols for functional and structural neuroimaging
- 7T MRI sequence coding and development
- 7T MRI hardware development

Applicants should have completed or will soon complete their doctoral studies in bioengineering, electrical engineering, or closely related disciplines, with experience in MR imaging and analysis. A commitment of at least 2 years is expected.

The candidate should have advanced computation skills, including abilities in Matlab, C/C++, and/or Python and be able to work well with others in a team of like-minded researchers and interdisciplinary collaborators. The candidate will also be expected to contribute to the dissemination of scientific findings through the preparation of manuscripts, abstracts, and the presentation of findings at scientific meetings.

The 7 Tesla Bioengineering Research Program and Radiofrequency Research Facility at the University of Pittsburgh has access to a research dedicated Siemens 7T MRI System, and state-of-the-art manufacturing and computational resources for the advancement of 7 Tesla neuroimaging.

For more information or to apply for this position, please send an email to Dr. Tamer Ibrahim (tibrahim@pitt.edu) and Mr. Jeremy Berardo (jjb175@pitt.edu) with a cover letter describing your research background and interests, an updated CV, and contact information for three references.

7TBRP