Post doc position for the Multiparametric quantitative MRI group

Position Available

The Roy J. and Lucille A. Carver College of Medicine invites applications for a 100% postdoctoral position within the Department of Radiology.

The primary focus of this research position is to assist in innovative MR image reconstruction and pulse sequence methods. The successful applicants will join the collaboration with researchers and clinicians at the MR Research Facility, Iowa Institute for Biomedical Imaging (IIBI) and University of Iowa Hospitals & Clinics (UIHC) on the development of advanced Pediatric MR research with a primary focus on the brain and/or heart (e.g., MR spectroscopic imaging, MR elastography, susceptibility mapping and/or dynamic imaging). The candidate will be also encouraged to explore other research opportunities or collaborations within the group. Tools and techniques to be developed include but are not limited to MR pulse sequences, machine learning-based reconstruction algorithms and image analysis pipelines. These approaches will provide highly efficient high-dimensional MRI image acquisition and reconstruction.

We seek an enthusiastic and motivated postdoctoral researcher with strong background in signal processing or MR physics with experience working with MRI data and MR scanners. Knowledge of machine learning methods is a plus. The postdoc will be exposed to diverse brain and cardiac MRI exams for both pediatric and adult population. The primary infrastructure for MRI exams involves both 1.5 and 3T General Electric and Siemens scanners.

Main duties and responsibilities

- Perform research towards the fulfilment of the project objectives
- Disseminate results through the publication of scientific papers and the delivery of seminars and conference presentations
- Keep up to date with current developments in the research field through regular literature surveys

Education requirement

- PhD or MD, with research training. Applicants who expect to have submitted their PhD thesis by the application deadline may also apply.

Required qualifications

1. Excellent verbal, written and interpersonal communication skills.
2. Ability to take initiative and excel in problem solving.
3. Ability to work both independently and participate in teams.
4. Experience in MRI and high-dimensional signal processing.
5. Data analysis and statistical skills.
6. Facility working with analysis software.
**Desirable Qualifications**

1. Computer programming in Matlab, Python, C/C++ or similar.
2. Expertise in machine learning methods and applications.
3. Experience in MRI image acquisition and reconstruction.
4. Previous experience in brain and cardiac MRI applications.

**Application**

Qualified candidates can apply by sending their CV, 3 name and contact information of References, and a letter of interest to Dr. Xi Peng by email: xi-peng@uiowa.edu or online at: [https://jobs.uiowa.edu/postdoc/view/4069](https://jobs.uiowa.edu/postdoc/view/4069)

For more information, please see: [https://medicine.uiowa.edu/radiology/](https://medicine.uiowa.edu/radiology/)

Applicable background checks will be conducted.

*The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, genetic information, religion, associational preference, status as a qualified individual with a disability, or status as a protected veteran.*