Postdoctoral Fellow Position in Musculoskeletal MRI

The University of Minnesota’s Center for Magnetic Resonance Research at the Department of Radiology has an opening for a **Postdoctoral Fellow in High and Ultrahigh Field Musculoskeletal Imaging** for a 3-year period with the earliest starting date of February 2020. To learn more about CMRR please visit: [http://www.cmrr.umn.edu/](http://www.cmrr.umn.edu/)

**Position Description, Resources and Environment**

We are currently seeking a Postdoctoral Fellow for research projects on musculoskeletal imaging including 3T clinically oriented studies and 7T methods focused projects in Orthopedic Imaging. Research topics will include: i) special focus of our program is the evaluation of the developing skeleton and vascularity of the epiphyseal cartilage in the knee, ii) qualitative and quantitative imaging of cartilage and bone pathology and repair, and iii) development and application of sequences capable of capturing the ultrashort T2-components in the musculoskeletal system (e.g. bone, tendon, menisci). The research activities include data acquisition and processing utilizing different MRI equipment available at CMRR.

The research work will be conducted on a 3T, 7T and 10.5T Siemens whole-body systems with parallel transmit capabilities, as well as a 9.4T animal scanner. In addition, CMRR offers extensive facilities and experience in developing new sequences, hardware, RF coils and RF modeling to support the goals of this project. It is expected that the applicant will author manuscripts in peer-reviewed journals, participate in seminars, present at international conferences and workshops, and participate in other career development programs available at the University of Minnesota. In order to continue support for this position into the future, additional responsibilities will include active participation in grant preparation.

**Required Qualifications**

- PhD in Engineering, Computer Science, Physics, or related field
- Publications in peer-reviewed journals
- Image post-processing in Matlab and other software packages

**Preferred Experience**

- MR pulse sequence development
- MR data post processing, statistical data analysis
- Interest in MR hardware development
- Experience in Musculoskeletal Imaging

Please apply at: [https://hr.myu.umn.edu/jobs/ext/332410](https://hr.myu.umn.edu/jobs/ext/332410)

For questions regarding the position, please email to Dr. Jutta Ellermann, eller001@umn.edu