The University of Minnesota’s Center for Magnetic Resonance Research at the Department of Radiology has job openings for a Research Associate and Postdoctoral Fellow in high and ultrahigh-field musculoskeletal imaging for a period of 4 or 5 years with the earliest starting date of December 2017.

We are seeking researchers who can substantially contribute to accomplishing our research goals on musculoskeletal imaging projects including 3T clinically oriented studies and 7T methods and system development program focused on orthopaedic imaging. Research topics will include qualitative and quantitative imaging of cartilage pathology and repair, and application and further development of sequences capable of capturing the ultrashort T2-components in the musculoskeletal system (e.g. bone, tendon, and meniscus). A special focus of our program is the evaluation of the developing skeleton and vascularity of the epiphyseal cartilage. Furthermore, we are interested in performing MSK MRI experiments with other nuclei, such as sodium. This work will be conducted on a 3T Siemens Prisma system, a 7T Siemens system with 16 transmit and 32 receive channels, and a 9.4T preclinical system. Our new whole-body 10.5T Siemens system will also be available in the near future for MSK experiments. In addition, we have extensive facilities and experience in developing new sequences, hardware, coils and RF modeling to support the goals of this project.

Required Experience:
- PhD in Engineering, Computer Science, Physics, or related field
- A record of publications and/or conference proceedings
- Programming/Post-Processing experience in Matlab, IDL, or similar environment

Preferred Experience:
- MR pulse sequence development
- MR data post processing, statistical data analysis
- Conceptual input into MR hardware development
- Experience in Musculoskeletal Imaging

Detailed job descriptions, requirements, and application forms can be found at the following links or https://humanresources.umn.edu/jobs:

Research Associate:
University of Minnesota Job ID #320072
https://www.myu.umn.edu/psp/psprd/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=320072&PostingSeq=1

Postdoctoral Fellow:
University of Minnesota Job ID #320023
https://www.myu.umn.edu/psp/psprd/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=320023&PostingSeq=1

Questions regarding the positions can be directed to:

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