The MRI Laboratory at the Hospital for Special Surgery invites applications for a **Post-Doctoral Fellow** to join a team of radiologists and MRI researchers who are developing **MRI applications in musculoskeletal imaging** and magnetic resonance neurography. Specifically, the project emphasis will involve (i) MRI pulse sequence development for motion-robust acquisition, and high resolution three-dimensional anatomical imaging.

Candidates should have a (i) doctoral degree in either engineering, medical physics, applied mathematics, or a related field, and (ii) experience with pulse sequence development on either Siemens or GE MRI platforms. Experience with (iii) image reconstruction or image-processing algorithms are highly desired. The candidate should have (iv) excellent writing and communication skills as well as a record of productivity and publications.

The candidate will be assigned one to two primary projects related to pulse sequence programming (IDEA and/or Epic). The candidate will also be involved in MR research coordination, scanning and data analysis (using MATLAB or Python), and grant and manuscript preparation. Candidates may also be required to perform image reconstruction (using MATLAB or C/C++). Candidates will also be encouraged to develop their own, independent research ideas that may culminate in a grant application.

HSS is nationally ranked No. 1 in orthopedics for the 11th year in a row, and top-ranked in orthopedics and rheumatology for 29 consecutive years. HSS is a highly interdisciplinary work environment with cooperative efforts involving engineers, surgeons and radiologists performing clinical, translational, and basic science research aimed at improving patient care. The MRI laboratory is actively funded by external funding sources, including NIH (NIAMS & NICATS), DOD, private foundations, and commercial entities. HSS is equipped with 19 state-of-the-art MRI scanners at both 3.0T and 1.5T.

The position is available immediately and the initial appointment is for one year, with possibility for renewal based on performance up to three years. Applicants should submit a cover letter describing current research interests and future research goals, a complete CV, relevant reprints, and the names of three references to Ek Tan, PhD and Darryl Sneag, MD.

For inquiries, please email tane@hss.edu.

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