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 investigating MRI applications for peripheral nerve imaging (magnetic resonance neurography) and quantitative MRI in musculoskeletal applications. Specifically, the project will focus on (i) developing robust motion correction techniques to enable high resolution three-dimensional anatomical imaging and (ii) performing quantitative diffusion processing and associated modeling.

Candidates should have a doctoral degree with a strong background in either engineering, medical physics, applied mathematics or a related field, and have experience with image reconstruction or image-processing algorithms. The candidate should have demonstrated excellent writing and communication skills as well as a record of productivity and publications. Candidates should also have experience working on one or more of the following areas involving MRI – pulse sequence programming, image reconstruction or machine learning.

The candidate will be assigned a broad variety of tasks including MR image reconstruction, pulse sequence programming (C, C++, Epic), study coordination along with scanning and data analysis (Matlab/Python), manuscript preparation, and participation in grant applications. Candidates will also be encouraged to develop their own, independent research ideas that may culminate in a grant application.

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, private foundations, and commercial entities. HSS is equipped with 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. 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 Darryl Sneag, MD and Ek Tan, PhD.

For inquiries, please email tane@hss.edu.

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