The MRI Laboratory at the Hospital for Special Surgery invites applications for an MRI physicist at the Assistant or Associate Scientist level to join a team of radiology and biomedical engineer investigators who are pursuing MRI evaluation of the musculoskeletal system and the development of pulse sequences.

The physicist will be responsible for the implementation, monitoring and quality control of all pulse sequences, imaged reconstruction, post-image data processing and translation of research sequences to the clinical settings. HSS currently utilizes 10 – 1.5 T and 5 – 3T systems (GE) for clinical and research purposes.

The successful candidate must be interested in developing approaches, which are translational in nature, with applications that align with one or more of the institutional clinical strengths, including imaging of cartilage and cartilage repair, imaging near arthroplasty, evaluation of soft tissues during in vivo joint loading, and peripheral nerves (MR neurography). It is anticipated that the candidate will aid in building and maintaining an internationally competitive research program, and work with HSS researchers across departments.

Candidates should have a PhD in medical physics, radiology, bioengineering, or a related field, with experience with pulse sequence development (EPIC and C++ programming) and image processing algorithms. The candidate should also possess outstanding writing and communication skills. Experience with clinical MRI scanners would be extremely beneficial. Candidates must have a willingness to participate in several ongoing pre-clinical and clinical research projects and collaborate with a broad range of biologically-oriented investigators.

HSS is an interdisciplinary work environment, with cooperative efforts of 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 and private foundations, in performing a variety of interdisciplinary research projects.

Applicants should submit a covering letter describing current research interests and future research goals, a complete CV, relevant reprints and the names of three potential references to:

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