POSTDOCTORAL FELLOWSHIP OPPORTUNITY

Overview:
We are seeking a highly motivated postdoctoral researcher in the field of Biomedical Engineering, Physics, Computer Science, Medical Imaging or related to join the laboratory of Stefanie Hectors, PhD. The Hectors Lab is affiliated with Weill Cornell Medicine in New York City, providing a rare opportunity for rich collaboration between world-class clinicians and quantitative researchers. The lab aims to develop novel advanced body MRI acquisition and analysis techniques, in particular for detection and characterization of prostate, liver and kidney disease. The fellow will develop state-of-the-art advanced quantitative MRI methods for measurement of tissue structure and function and implement innovative data analysis algorithms, including but not limited to machine and deep learning techniques. The successful applicant will join a vibrant and collaborative research environment at one of the top universities in the world. The position will be for one year, renewable for up to three years.

Responsibilities:
- Perform cutting-edge research in the area of quantitative body MRI (e.g. relaxometry, diffusion-weighted imaging, perfusion imaging).
- Develop new image analysis algorithms and tools to maximize the diagnostic value of body MRI data, e.g. as marker of disease severity and outcome.
- Disseminate research results through publications in high-impact journals and presentations at top international conferences.

Requirements:
- PhD in Biomedical Engineering, Physics, Computer Science, Medical Imaging, or related field
- At least 2-years of hands-on experience with quantitative MRI and image analysis
- Proficiency in quantitative analytical methods and strong programming skills (MATLAB, Python, etc)
- Significant track record of research and publications in top scientific conferences and journals
- Effective communication skills, both written and verbal
- Track record of effectively working both independently and as part of a multidisciplinary team

Highly Desired:
Knowledge in one or more of the following:
- MRI sequence programming
- Hands-on experience on clinical MRI systems
- Machine/deep learning applied to medical imaging data

To apply: Please send a one-page statement of career goals and research interests and full CV to sjh4002@med.cornell.edu

Weill Cornell Medicine: Founded in 1898, and affiliated with what is now New York-Presbyterian Hospital (NYPH) since 1927, Weill Cornell Medicine (WCM) is among the top-ranked clinical and medical research centers in the country. In addition to offering degrees in medicine, WCM also has PhD programs in biomedical research and education at the Weill Cornell Graduate School of Medical Sciences, and with neighboring Sloan-Kettering Institute and The Rockefeller University, has established a joint MD-PhD program for students to intensify their pursuit of Weill Cornell's triple mission of education, research, and patient care. WCM is divided into 24 basic science and patient care departments that focus on the sciences underlying clinical medicine and/or encompass the study, treatment, and prevention of human diseases. The basic science and clinical departments are located in buildings that straddle York Ave. between 68th and 72nd streets on Manhattan's Upper East Side. Weill Cornell Medical College has 1781 full-time faculty (3582 total faculty) distributed across 8 basic science and 15 clinical departments. WCM maintains major affiliations with Memorial Sloan-Kettering Cancer Center, The Rockefeller University, the Hospital for Special Surgery, as well as with the metropolitan-area institutions that constitute NYP Healthcare Network.

Weill Cornell Medicine is an Equal Employment Opportunity/Minorities/Females/ Vet/Disabled employer.