Post-doctoral Fellow Position in diffusion MRI of cancer

A postdoctoral position in diffusion MRI of cancer is available at the MRI Research Institute (MRIRI), Weill Cornell Medical College in New York City. This research position will primarily focus on developing advanced diffusion MRI methods to quantitatively image cancer microstructural and functional properties, particularly in head and neck cancer and breast cancer. The overarching goal of this work is to develop novel diffusion prognostic parameters that can help tailor cancer treatment for individual patients. Specifically, this study may include the development of diffusion models to extract microstructural parameters, numerical simulation framework to investigate the association of cellular properties with diffusion MRI, advanced acquisition methods, and AI-based analysis methods for translational applications.

The ideal candidate should have experience in MR physics, reconstruction algorithms and/or pulse sequence programming. Prior experience in diffusion experiments and microstructure modeling would be a plus. Experience with Matlab, Python, and Siemens IDEA environments are also desirable. The candidate will be expected to participate in both independent and collaborative projects. Salary is commensurate with experience.

The recently formed MRIRI at the Department of Radiology of the Weill Cornell Medical College of Cornell University aims to be a leading center in the development of innovative MRI methodologies and their applications in biomedicine. Research interests at MRIRI in terms of clinical applications cover a wide range of diseases, including, but not limited to, oncologic, neurological, and cardiovascular diseases. Weill Cornell Medical College, located in the upper east side of New York City, has a vibrant biomedical research community and strong ties to the main Cornell campus in Ithaca and the Tech campus in New York City.

The successful candidate will work closely with Drs. Eddy Solomon and Sungheon Gene Kim. Interested candidates should e-mail a brief statement of research interests, CV, and contact information of three references to Dr. Eddy Solomon (eds4001@med.cornell.edu). The position is available to start as soon as possible.

Diversity is one of Weill Cornell Medicine’s core values and is essential to achieving excellence in patient care, research, and education. We welcome applications from candidates who share our commitment to fostering a culture of fairness, equity, and belonging. Weill Cornell Medicine is an Equal Employment Opportunity Employer, providing equal employment opportunities to all qualified applicants without regard to race, sex, sexual orientation, gender identity, national origin, color, age, religion, protected veteran or disability status, or genetic information.