



MRI Engineer/Research Associate in quantitative MRI/Deep Learning

Exciting opportunity at MSK: Join our team as an MRI Engineer/Research Associate, Quantitative MRI and Deep Learning! We're looking for a dynamic professional to work in a multidisciplinary group including physicists, engineers, computer scientists and clinicians in the departments of Medical Physics and Radiology.

Role Overview:

- Develop quantitative MRI methods broadly applied to cancer diagnosis and response assessment.
- Collaborate with MSK Radiologists on developing a combination of pulse sequence programming, optimization, and new deep learning approaches as well as application of developed technology to clinical cancer cases.
- Develop and code software programs, algorithms, and automated processes to implement new MRI technology into clinical scanners.
- Interpret and communicate insights and findings from analysis and experiments to product, service, and business managers.
- Participate in running imaging experiments.
- Debug and troubleshoot software to resolve defects.
- Build effective working relationships with development and cross-functional team members.
- Author and/or contribute to technical design documentation, release notes, bug fix documentation.
- Perform and design testing protocols to ensure that the product is fully tested.

Key Qualifications:

- Master's degree in Electrical Engineering, Biomedical Engineering, Computer Science, or a related area.
- Background in MRI physics, pulse sequence programming in GE EPIC, optimization methods and deep learning is a plus.

Core Skills:

- Computer programming expertise in Matlab and Python, and C++ (required)
- Outstanding attention to detail and strong analytical and interpersonal skills.
- Planning and prioritizing work to meet commitments aligned with organizational goals.
- Critical thinking and problem-solving to ensure unforeseen issues are handled appropriately and resolved in a timely fashion.
- Excellent communication skills and the ability to interact across all levels in a confident, professional manner.
- Enthusiasm and dedication to MSK's vision, mission and values.

Additional Information:

- Location: Joy Building, 321 E 61st Street, NYC

Pay Range: \$120,200 - \$192,300



Memorial Sloan Kettering
Cancer Center



To apply use the link below:

<https://general-mskcc.icims.com/jobs/78152/mri-engineer/job?mode=view>

Helpful Links:

- [MSK Compensation Philosophy](#)
- [Review our great benefits offerings](#)

Learn more about the Cohen Lab: [The Cohen lab](#) has substantial research time at clinical MRI scanners in the Department of Radiology, including state-of-the art 1.5T and 3T GE scanners and a 3T PET-MR GE scanner. The group also has access to high performance computer servers with multiple GPUs for image reconstruction and analysis tasks. Deep learning methods have recently experienced tremendous growth in popularity due to their effectiveness and ease of use. In this project, we aim to develop deep learning reconstruction and quantification methods to accelerate the MRI reconstruction and further extract clinically useful data from the MR acquisition.