MRI Research Engineer (Bioinformatician)

NorthShore University HealthSystem (NorthShore) is a comprehensive, fully integrated, healthcare delivery system that serves the greater North Shore and Illinois communities. NorthShore is committed to earning the loyalty of those who come to us for care and those who play a role in providing that care. Service Values which include: Exceptional Customer Service, Supportive Workplace Interactions and Professional Work Ethic, define the behaviors that each employee demonstrates with co-workers, patients and families, physicians, and visitors.

To learn about the many benefits of working at NorthShore, which include a supportive work environment that promotes professional and career development, recognition of our staff for providing excellent service and a competitive benefits package, please visit www.northshore.org/careers.

Position Overview

We are currently seeking a MRI Research Engineer (Bioinformatician) in our Center for Advanced Imaging located at Evanston Hospital in Evanston, IL. This is a full time benefits eligible position. Hours will be scheduled on a day shift. To apply to this position visit NorthShore Careers and search job number 65139.

This role will be responsible for development of novel magnetic resonance imaging (MRI) pulse sequences, image reconstruction algorithms, and image processing algorithms for ongoing research projects. A portion of time will be spent assisting scientific and clinical colleagues with the preparation of scientific works.

Responsibilities
In this role, you will:

- Develop, modify, implement, and validate magnetic resonance imaging (MRI) pulse sequence programs
- Develop and implement image reconstruction and processing algorithms in C++ and Matlab or Python
- Assist with the preparation of scientific works such as manuscripts and abstracts
- Collaborate with scientific and clinical investigators and colleagues
- Report to senior staff within the Center for Advanced Imaging

Qualifications
Our ideal candidate will have:

- Master's degree in computer science, physics, engineering or related field (or Bachelor's degree with about 4 years experience)
PhD preferred
Knowledge of magnetic resonance imaging (MRI) physics
Prior MRI pulse sequence or image reconstruction development experience in C++
At least 2 years of experience in a professional research laboratory
Software development skills with knowledge of C++ and Matlab or Python
Capable of picking up new programming languages and usage of new libraries quickly
Experience in scientific data acquisition and analysis
Excellent communication skills
Ability to craft scientific publications
Ability to assist senior researchers in the preparation of scientific works

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NorthShore University HealthSystem is committed to working with and providing reasonable accommodation to individuals with disabilities. Please refer to the main career page for more information.