MRI Physicist

Required Qualifications (as evidenced by an attached resume):
Master's degree (foreign equivalent or higher) from an accredited institution in MR Physics or a related field. At least 2 years of hands-on-experience. Excellent oral and written communication skills. Track record of collaborative research in the field of magnetic resonance imaging and magnetic resonance spectroscopy. Evidence of expert understanding of MR physics, MR image acquisition, signal processing, image processing, and image reconstruction. Ability to optimize MR protocols, analyze data, and interpret results. Working knowledge of MR methods including functional MRI and MRS. Ability to interact with a variety of MR users representing various levels of technical interest and expertise. Ability to work cooperatively and collegially in a diverse environment.

Preferred Qualifications:
Ph.D. (or foreign equivalent) in Medical Physics or a related field. Experience with quantitative MR methods such as T1/T2 relaxometry, multi-nuclear (³¹P and ¹H) MRS, Susceptibility-weighted imaging (SWI), magnetization transfer imaging, diffusion MRI, and arterial spin labeling (ASL). Experience with Siemens MRI scanners, including Siemens IDEA and ICE certification. MRI certification by the American Board of Medical Physicists. Experience with multi-disciplinary collaboration across a wide range of scientific disciplines. Experience in integrating EEG, EMG, pupillometry, and other physiological measurements in the MR scanner environment. Experience with neuroimaging analysis software, including use of FSL, SPM, Freesurfer, AFNI, MATLAB and/or Python-based.

Brief Description of Duties:
Stony Brook University's SCAN (Social, Cognitive, and Affective Neuroscience) Center is recruiting a full-time medical physicist with expertise in Magnetic Resonance Imaging (MRI). The ideal candidate will provide theoretical and technical support to faculty and researchers on MR related projects from developing and testing to implementing novel MR neuroimaging technologies and methods, as well as advanced quantification methods applied to human MR research, with an emphasis on Magnetic Resonance Spectroscopy (MRS) and functional brain imaging. The successful candidate will contribute to facilitating collaborative research and development of novel MR applications and participate in quality improvement and value initiatives. The ideal candidate would also work with faculty with expertise in multimodal methods to develop and support state-of-the-art image-processing techniques and support the integration of other neuroimaging (e.g., EEG) or stimulation techniques (e.g., TMS) with fMRI and MRS.

Duties:

• Support advanced MR modalities such as MRS, diffusion MRI, myelin and iron imaging, multi-band fMRI, and multi-echo fMRI.
• Maintain and optimize the performance of our MRI systems, including hardware and software components.
• Oversee quality control of the existing MR equipment and maintain the integrity of the data collection, including transition of existing sequences across system updates.
• Provide scientific and technical assistance to researchers and faculty.
• Assist researchers and faculty in implementing existing MR acquisition protocols, facilitating C2P sequence transfer agreements, and developing novel pulse sequences to advance the state-of-the-art in MRI and MRS.
• Work with a staff technician, faculty, post-doctoral fellows, graduate students, and research coordinators during their day-to-day operations of the MR scanner.
• Contribute to the definition, application, and maintenance of standard operating procedures.
• Provide technical support and training to research staff on image acquisition and analysis, and update them about new developments in, and local implementation of imaging methods and novel analytical techniques.
• Other duties or projects as assigned as appropriate to rank and departmental mission.

Special Notes:
This is a full-time appointment. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Minimum salary threshold must be met to maintain FLSA exemption.

In addition to the employee's base salary, this position is eligible for $3,026 UUP annual location pay, paid biweekly.

Essential Position: This has been designated as an essential position based on the duties of the job and the functions performed. Positions that are designated as such may be required to report to work/remain at work even if classes are canceled, and the campus is working on limited operations in an emergency.

Evening and weekend work may be required at times.

Resume/CV and cover letter should be included with the online application.

Stony Brook University is committed to excellence in diversity and the creation of an inclusive learning, and working environment. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, familial status, sexual orientation, gender identity or expression, age, disability, genetic information, veteran status and all other protected classes under federal or state laws.

If you need a disability-related accommodation, please call the university Office of Equity and Access (OEA) at or visit https://www.stonybrook.edu/commcms/oea/.

In accordance with the Title II Crime Awareness and Security Act a copy of our crime statistics can be viewed https://www.stonybrook.edu/police/.
Visit our https://www.stonybrook.edu/commcms/jobs/working-here/index.php page to learn about the total rewards we offer.

To apply, visit https://aptrkr.com/4716246

Copyright ©2022 Jobelephant.com Inc. All rights reserved.

https://www.jobelephant.com/