MRI Physicist/Engineer

Date Posted: 09/01/2021
Req ID: 15192
Faculty/Division: Faculty of Arts & Science
Department: Department of Psychology
Campus: St. George (Downtown Toronto)

Application link:
https://jobs.utoronto.ca/job/Toronto-ON/550128417/?locale=en_US

Description:
About us:
Established in 1927, the Department of Psychology has for more than a century been a top choice for those pursuing a career in psychological research. The combined expertise of our faculty spans all major areas of psychology and reflects a wide range of approaches to the study of mind, brain and behaviour. Our department comprises a diverse and internationally recognized faculty, first-rate laboratory facilities and a tradition of cutting-edge, collaborative research in an inspiring intellectual atmosphere.

Your opportunity:
Under general direction of the Director, fMRI Facility, the MRI Physicist/Engineer will work closely with principal investigators (PIs) to provide support on research on a 3T MRI optimized for functional human neuroimaging. The incumbent maintains, debugs, and optimizes the operation of the fMRI system. The incumbent will also monitor the safety of the operating environment, educate and assist users of the fMRI Facility.

The fMRI Physicist/Engineer is responsible for the operations and maintenance of the fMRI facility and provides recommendations regarding upgrades to equipment and other matters pertinent to the operation of the facility. The incumbent is responsible for educating users of the facility on proper use of equipment including development of customized training and workshops to meet the diverse needs of users with the overall goal of actively providing support and recommendations to users and assisting researchers with their research activities including producing pilot data for PIs.

Your responsibilities will include:
• Overseeing day-to-day operational needs for one or more labs/workshops. This includes maintaining and operating the facility equipment; ensuring smooth operation of the online booking system and booking practices; and overseeing safety procedures and compliance.
• Assessing needs and contributing to the development of operational plans for facilities, including developing standard operating procedures, safety procedures, workshops, as well as leading safety training workshops to certify new users/operators.
• Preparing, assembling and setting-up material, equipment and supplies according to the needs of the facility, including but not limited to troubleshooting equipment repairs and coordinating the installation of new equipment and upgrades, as well as ordering office/lab supplies for the facility.
• Keeping well-informed on policies, rules, regulations and guidelines and disseminating information regarding policies and guidelines to facilities users by facilitating training and workshops.
• Analyzing technical operation activities and recommending changes for improvement, including researching and recommending purchases of technical equipment.
• Assessing needs and contributing to the planning of research goals, including coordinating with clients regarding their optimal scanning sequences and experimental paradigms, as well as regularly attending and contributing to facility meetings user group meeting for the facility.
• Keeping well-informed on current technologies, best practices and industry standards.
• Directing the day-to-day activities of staff.

**Essential Qualifications:**

• Ph.D. in relevant areas of physics, electrical engineering or related field or a combination of formal education and experience.
• Minimum 5 years of experience in MRI with experience and direct participation in research on human functional neuroimaging, as well as experience in managing MRI system(s).
• Strong, up-to-date knowledge of magnetic resonance imaging, and its application to functional neuroimaging, human structural imaging, including diffusion tensor imaging.
• Demonstrated ability in project design and planning.
• Strong statistical analysis background.
• Exceptional communication skills (verbal and written) with strong ability to explain and execute project related processes and achieve desired results for clients.
• Strong interpersonal skills.
• Team-oriented with demonstrated ability to contribute to a supportive, collegial and collaborative team environment.
To be successful in this role you will be:

- Approachable
- Communicator
- Goal oriented
- Proactive
- Problem solver
- Team player

Closing Date: Position will be posted until filled
Employee Group: USW
Appointment Type: Budget - Continuing
Schedule: Full-Time
Pay Scale Group & Hiring Zone:
USW Pay Band 15 -- $84,316 with an annual step progression to a maximum of $107,826. Pay scale and job class assignment is subject to determination pursuant to the Job Evaluation/Pay Equity Maintenance Protocol.
Job Category: Facilities/Ancilliary Services

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Diversity Statement
The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see http://uoft.me/UP.

Accessibility Statement
The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our unwavering commitment to excellence in the pursuit of our academic mission.

The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and
selection processes as accessible as possible and provide accommodations as required for applicants with disabilities.

If you require any accommodations at any point during the application and hiring process, please contact uoft.careers@utoronto.ca. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.