RESEARCH ENGINEER

Job ID: 12181

Faculty/Unit: Schulich School of Medicine and Dentistry

Department: Robarts Research Institute - Imaging

Application Closing Date: Monday 9 April 2018 at 11:59pm EDT

Classification & Regular Hours

Hours per Week: 37.5

Salary Grade: Technical Level 7

Please note, this is a 1-year, temporary full-time contract opportunity with the possibility of an extension.

About Western

With an international reputation for success, Western ranks as one of Canada's top research-intensive universities. Our research excellence expands knowledge and drives discovery with real-world application. Western also provides an exceptional employment experience, offering competitive salaries, a wide range of employment opportunities and one of Canada's most beautiful campuses.

About Us

The Centre for Functional and Metabolic Mapping (CFMM) at Western University is dedicated to establishing the anatomical, metabolic and functional characteristics of normal brain development and healthy ageing across the lifespan; as well as establishing the brain basis of developmental, neuropsychiatric, and neurodegenerative deficits using Canada’s only collection of high-field (3T human) and ultra-high field (7T human and 9.4T animal) MR systems.
**Responsibilities**

The Research Engineer serves as the technical lead for the detailed design and fabrication of new hardware for 3T, 7T, and 9.4T MRI scanners within the Centre for Functional and Metabolic Mapping (CFMM). In collaboration with the Principal Investigator, the incumbent will assist in project planning activities including work breakdown, schedule and cost estimates, to ensure hardware projects are completed within budget and schedule constraints. The Research Engineer also provides technical hardware support to faculty and staff within the department.

**Qualifications**

**Education:**
- Bachelor’s Degree in Electrical Engineering, Engineering Physics, or Physics

**Experience:**
- 2 years’ experience in electronic design and working in a research environment planning, preparing and managing projects
- Experience with designing high-frequency circuits is preferred

**Knowledge, Skills & Abilities:**
- Excellent knowledge of electromagnetic theory
- Excellent knowledge of circuit design and construction with an ability to design, fabricate, and evaluate electrical circuits and antennas
- Ability to design and build electrical devices to interface with existing equipment
- Intermediate computer skills with Computer Aided Design (CAD) software
- Basic skills in machining (hand tools, soldering, etc.)
- Demonstrated ability to use test equipment for diagnosis of hardware problems (network analyzer, impedance analyzer, oscilloscope, etc.)
- Demonstrated ability to research/investigate issues and creatively resolve problems using sound professional judgement
- Ability to handle details and process information with a high degree of accuracy and quality control with an ability to organize and prioritize a high volume of work to meet deadlines
- Project management skills to manage multiple projects simultaneously from conception to completion within tightly prescribed timelines
- Excellent communication skills to effectively interact with technical and non-technical users
- Self-driven, critical thinker who is highly motivated
- Ability to multi-task and maintain an organized and effective personal work environment
- Ability to work well under pressure and handle multiple conflicting priorities in a fast-paced environment
- Possesses a reputation for resourcefulness with a strong sense of accountability and initiative
- Results-oriented with an ability to handle many tasks and maintain a high level of individual and team performance

**Western Values Diversity**

The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups/visible minorities, Aboriginal persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact Human Resources at hrhelp@uwo.ca or phone 519-661-2194.

**Please Note:**

We thank all applicants for their interest; however, only those chosen for an interview will be acknowledged.

To apply for this position, please go to [https://www.uwo.ca/hr/working/staff/index.html](https://www.uwo.ca/hr/working/staff/index.html) to submit your application for Job Reference 12181 by 9 April 2018.