



Assistant/Associate Professor of Physics: Superconducting Magnet Systems Development and/or Systems-Focused Magnetic Resonance Imaging Physics

The Department of Physics and Astronomy at The University of Western Ontario invites applications for a new full-time, Probationary (tenure-track) faculty position at the rank of Assistant or Associate Professor, to complement an existing National Science and Engineering Research Council (NSERC) Industrial Research Chair (IRC) in Magnetic Resonance Systems Development. The new appointment will be in the areas of superconducting magnet systems development and/or systems-focused Magnetic Resonance Imaging (MRI) physics. Rank will be commensurate with experience. The position will commence on 1 July 2018 or as negotiated.

The Department of Physics and Astronomy is a research-intensive department in Western's Faculty of Science, with both undergraduate and graduate programs offered in astronomy and physics. The Department is home to more than 30 full-time faculty members who combine excellence in both teaching and research. Established research areas within the Department of Physics and Astronomy include Medical Physics, Biomaterials, Condensed Matter, Planetary Science, and Astronomy.

The xMR Labs (a research unit within the Department of Physics and Astronomy), along with its industry partners, has established a comprehensive MRI systems development program as part of the NSERC IRC research program, including the development and evaluation of cryogen-free superconducting MRI systems and the evaluation of MRI-compatible medical devices and technology. Western on the whole is an international leader in the development and application of MRI. The Robarts Research Institute at Western is home to two research-dedicated 3 T whole body MRI scanners, one research-dedicated 7 T head-specific MRI and one small animal 9.4 T MRI. The successful candidate will become a member of a collaborative research program in applied physics involving leading researchers in MRI systems and application development.

Applicants must possess a PhD degree in Physics, Engineering-Physics, or a related discipline. The successful candidate must demonstrate an outstanding record of research productivity in the form of publications in high-impact peer reviewed journals, awards, invited talks, industrial contract research, and other scholarly achievements as appropriate for their career path and stage. They also must demonstrate that they are well positioned to compete successfully for external funding in both the public and private sectors as evidenced by their current success with grant funding and/or industry contracts and partnerships, as detailed in their research plan. Demonstrated ability in teaching is an asset, as the successful candidate will be expected to contribute to teaching at the graduate and undergraduate levels within the Department of Physics and Astronomy. The candidate must demonstrate his or her ability to attract and train graduate students and other highly qualified personnel (HQP) and explain how HQP training integrates into their research plan.

The applicant research plan must outline potential collaborations with current MRI systems development within the xMR Labs as well as the Department of Physics and Astronomy overall. The applicant must have a strong background in one or more of the following areas: design and prototyping of superconducting magnets or systems; MRI systems development; development of new MRI methods and techniques. The applicant will be expected to develop an innovative, independent, and productive research program within the collaborative research environment of the Department of Physics and Astronomy.

With annual research funding exceeding \$220 million and an international reputation for success, Western



ranks as one of Canada's top research-intensive universities. Western is home to full-time about 35,000 full-time undergraduate and graduate students and has one of Canada's most beautiful campuses. General information about the University can be found at <http://www.uwo.ca/>. The university campus is in London Ontario, a city of 380,000, located midway between Toronto and Detroit. With parks, river valleys, tree-lined streets, and bicycle paths, London is known as the "Forest City." London boasts an international airport, galleries, theatre, music and sporting events (see https://www.ledc.com/assets/pdf/slide-decks/LEDC_Concierge_01-11-2016.pdf). Western's Office of Faculty Recruitment and Retention is available to assist in the transition of the successful applicant and their family.

Interested candidates should send as a single pdf document, a curriculum vita, a list of refereed publications, a 5-year research plan (3 pages or less) and a statement of teaching philosophy (2 pages or less), including training of HQP, a list of the names and contact information of not less than three references, to:

Prof. R. Sica, Chair
c/o Jodi Guthrie, Assistant to the Chair
Department of Physics and Astronomy
The University of Western Ontario
jodi@uwo.ca

Applications will be considered starting March 1, 2018 and will continue until the position is filled. Please ensure that the Application for Full-Time Faculty Position Form available at:

<https://www.uwo.ca/facultyrelations/pdf/careers/Faculty/Application-FullTime-Faculty-Position-Form.pdf> is completed and included in your application submission.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. 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.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact Ms. Jodi Guthrie by email at Jodi@uwo.ca or by phone (519 661 2111 x86438).