NSERC-IRC Chair in Spine and Trauma Biomechanics and Mechatronics
Department of Mechanical & Materials Engineering

Applications are invited from exceptional candidates for the position of NSERC Industrial Research Chair in Spine and Trauma Biomechanics and Mechatronics in the Department of Mechanical & Materials Engineering, Faculty of Engineering, effective July 1, 2016 or as soon as possible thereafter. Based on qualifications, experience, and established record of performance in teaching and research, the successful applicant will receive a tenured academic appointment at the rank of Associate or Full Professor. The possibility exists for a joint appointment with the Schulich School of Medicine & Dentistry. This academic position is conditional upon being a successful recipient of the NSERC Industrial Research Chair award.

The Faculty of Engineering at Western University, in collaboration with Medtronic as the industrial partner, seeks an energetic and dynamic candidate who will be able to contribute to research and teaching efforts as well as other aspects of academic service. Qualified applicants must have a PhD and advanced training in biomechanical engineering with a clear focus on human biomechanics, such as orthopaedic biomechanics, computational modeling and/or mechanobiology. The successful candidate will have demonstrated outstanding research potential and an independent publication record. He or she will be expected to develop and maintain an ongoing vigorous research program in collaboration with faculty within the Department of Surgery and academic researchers at Victoria Hospital. He or she will be expected to attract external research funding, supervise graduate students, as well as teach undergraduate and graduate courses.

The appointment will be in the Faculty of Engineering, with possible joint appointment in the Schulich School of Medicine & Dentistry, the Faculty of Health Sciences and/or the Lawson Health Research Institute. The appointee will join an established team of researchers with complementary expertise, and have the opportunity to conduct research in musculoskeletal biomechanics within internationally renowned centres and facilities at Western University. These include: the Dr. Sandy Kirkley Centre for Musculoskeletal Research; Orthopaedic Biomechanics Laboratories; Biomedical Imaging Research Centre; Skeletal Biology Laboratories; Rorabeck Bourne Joint Replacement Clinic; Roth McFarlane Hand and Upper Limb Centre; Orthopaedic Spine Centre; and Fowler Kennedy Sport Medicine Clinic.

The appointment is contingent upon the successful award from the NSERC Industrial Research Chair program (www.nserc-crsng.gc.ca/Professors-Professeurs/CFS-PCP/IRC-PCI_eng.asp). The criteria for that program include (but are not limited to): proposal must be in an area of high priority for both the university and the industrial partner, and candidates must have (a) demonstrated exceptional promise relative to their peers in their field of research, (b) demonstrated the capacity to conduct a significant independent research activity, (c) a significant publication and Highly Qualified Personnel training record, and (d) the ability to interact with industry and nurture partnerships. The Industrial Research Chair application to NSERC will be developed as a joint effort between the University, the industrial partner, and the successful candidate.

Situated along the banks of the Thames River in picturesque London, Ontario, a city with a population of approximately 350,000, Western University is a prominent academic institution routinely ranked as a top research-intensive university in Canada and is committed to excel as a leading research institution internationally. Western University has a full time enrollment of about 32,000 students in a range of academic and professional programs. Further information about the Department of Mechanical and Materials Engineering can be found at http://www.eng.uwo.ca/mechanical/, the Faculty of Engineering at http://www.eng.uwo.ca/ and Western at http://www.uwo.ca/. Western Engineering is embarking on a major expansion of faculty to complement a planned growth in student numbers. Western Engineering’s Mission, Vision and Values: http://www.eng.uwo.ca/faculty_staff/img/Values_Mission_Statement.pdf. Western’s Recruitment & Retention Office is available to assist in the transition of successful applicants and their families.
The Department of Mechanical & Materials Engineering has research expertise in: biomechanics, design and manufacturing, mechatronics, robotics, sensors, controls, materials, solid mechanics, and thermofluids. Western University research infrastructure includes special facilities: nano-fabrication laboratory, Surface Science Western, and the Wind Engineering, Energy and Environment (WindEEE) Dome.

Applications should be sent to:

Dr. J. M. Floryan, Chair  
c/o Chris Seres, Administrative Officer  
Mechanical & Materials Engineering, Faculty of Engineering  
Western University  
London, Ontario, Canada N6A 5B9  
Email: cseres@uwo.ca

Consideration of applications will commence on March 31, 2016 and will continue until the position is filled. Please ensure that the form available at http://www.uwo.ca/facultyrelations/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 committee 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 person 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 Chris Seres at cseres@uwo.ca.

Posted on the Faculty Relations website on February 19, 2016.