

**The Department of Mechanical & Materials Engineering and the Department of Surgery  
are seeking outstanding candidates for an  
ENDOWED CHAIR IN SPINE AND TRAUMA BIOMECHANICS**

Applications are invited from exceptional candidates for the position of *Endowed Chair in Spine and Trauma Biomechanics* as a joint appointment in the Department of Mechanical & Materials Engineering, Faculty of Engineering, and the Department of Surgery, Schulich School of Medicine & Dentistry, effective July 1, 2022 or as soon as possible thereafter. The successful applicant will receive a Probationary (tenure track) appointment at the rank of Assistant or Associate Professor, or a Tenured appointment at the rank of Associate or Full Professor. The rank and tenure status will be commensurate with the successful applicant's qualifications and experience in teaching and research.

The Department of Mechanical and Materials Engineering and the Department of Surgery at Western University, seek an energetic and dynamic candidate who will be able to contribute to research and teaching efforts as well as other aspects of academic service for both departments.

For a probationary appointment, the successful candidate will have completed a Ph.D. degree and advanced training in biomechanical engineering with a clear focus on human biomechanics, such as orthopaedic biomechanics, computational modeling and/or mechanobiology, or a closely related discipline. The candidate will demonstrate excellence or clear promise of excellence in research, including evidence of high-quality scholarly output that demonstrates independent research potential leading to peer assessed publications and the securing of external research funding. The candidate must also demonstrate excellence, or the potential for excellence, in the teaching and training of students at the undergraduate and graduate levels.

For a tenured appointment, the successful candidate will have completed a Ph.D. degree and advanced training in biomechanical engineering with a clear focus on human biomechanics, such as orthopaedic biomechanics, computational modeling and/or mechanobiology, or a closely related discipline. The candidate will also provide evidence of excellence in research and impact through publications in the highest quality journals, and have an established internationally-recognized, externally-funded research program, with evidence of interdisciplinary and industrial collaborations. An exceptional profile with respect to teaching and training of students at the undergraduate and graduate levels is also required.

The successful candidate will be expected to develop and maintain an ongoing vigorous independent research program focused on orthopaedic spine and trauma biomechanics in collaboration with clinical and basic science faculty within the Schulich School of Medicine & Dentistry and the Lawson Health Research Institute. The successful candidate will be expected to attract external research funding. Furthermore, the successful candidate is expected to have a proven ability to interact with industry, as well as to promote and nurture collaborations/partnerships with both academic and non-academic stakeholders. In addition, the candidate will be expected to supervise graduate students and participate in other educational and professional activities including administrative duties within both Departments, Faculties and the University. The ability to become eligible for registration as a Professional Engineer in Ontario is required for this appointment.

The appointee will be primarily situated at the Orthopaedic Spine and Biomechanics Laboratory at the Victoria Hospital Site, London Health Sciences Centre. The appointee will also join an established team of researchers with complementary expertise and have the opportunity to conduct collaborative 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.

Situated along the banks of the Thames River in picturesque London, Ontario, a city with a population of approximately 380,000, 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/>, the Division of Orthopaedic Surgery at [https://www.schulich.uwo.ca/surgery/divisions/orthopaedic\\_surgery.html](https://www.schulich.uwo.ca/surgery/divisions/orthopaedic_surgery.html), the Department of Surgery at <https://www.schulich.uwo.ca/surgery/>, the Schulich School of Medicine & Dentistry at <https://www.schulich.uwo.ca>, and Western at <http://www.uwo.ca/>. Western Engineering's Mission, Vision and Values can be found at [http://www.eng.uwo.ca/faculty\\_staff/img/Values\\_Mission\\_Statement.pdf](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, including the Nanofabrication Laboratory, Surface Science Western, Wind Engineering, Energy and Environment (WindEEE) Dome, and Fraunhofer Project Centre for Composites Research.

The Department of Surgery has over 100 surgeons and scientists, one basic science graduate degree program, and seven Royal College academic training programs; enrolling over 160 trainees at various levels. Research expertise in the Department of Surgery is focused within four research nodes: Fundamental Sciences and Surgical Innovation, Surgical Education, Big Data, and Quality and Patient-Centred Research.

If you share our commitment to excellence in teaching and research, and are eager to pursue a rewarding academic career, please send (i) a detailed curriculum vitae, (ii) a description of teaching experience and philosophy, (iii) a brief description of your current research program, accomplishments, and future plans, (iv) copies of representative publications, and (v) the names of three referees

Applications should be sent to:

Dr. A. G. Straatman, Chair, c/o MME Administrative Officer  
Department of Mechanical and Materials Engineering  
Western University  
London, Ontario, Canada N6A 5B9  
Email: [mme@uwo.ca](mailto:mme@uwo.ca)

Consideration of applications will commence on March 8, 2022 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 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 the MME Administrative Officer by phone at 519-661-2111 extension 82136.*

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