



APPLICATIONS OF DIGITAL RADIOGRAPHY AND COMPUTER TOMOGRAPHY
Limited Term Faculty Position
Department of Medical Biophysics
Schulich School of Medicine and Dentistry
Western University

The Department of Medical Biophysics, within the Schulich School of Medicine and Dentistry, invites applications for a limited term, faculty position at any rank, commensurate with candidate experience and accomplishment, to begin as early as September 1, 2023. The successful candidate will be appointed for a term of up to 3 years. The successful candidate is expected to have a reduced workload of 45% of a full-time position.

The successful candidate is expected to direct a research program investigating novel physics and applications in digital radiography and computed tomography. This is to include development of energy-subtraction angiography using multi-spectral imaging techniques and new concepts in synthetic mask imaging, and to study the physics of spectral correlations in photon-counting CT spectroscopy.

The successful applicant must be an internationally recognized expert in the development of concepts describing signal, noise and noise correlations of quantum-based imaging systems in spatial and spatial-frequency domains.

In addition, the successful candidate must have demonstrated experience in executing external research grants, with an established track record of high quality supervision of both MSc and PhD graduate trainees.

Our departmental website (<http://www.schulich.uwo.ca/biophysics/>) describes the broader department's collaborative research-intensive environment involving over 100 graduate students from the University and its affiliated research institutes and hospitals across the city of London. The successful applicant may have opportunities for additional appointments in relevant basic science, clinical, and engineering departments.

Applicants must possess a PhD degree in Physics, Engineering, Medical Biophysics, or a related discipline, from an accredited institution, and exhibit a strong record of peer-reviewed publications, with excellent potential to garner independent research support and to participate in translational research teams. The successful applicant, will have fluent written and oral communication skills in English and must have demonstrated a potential for developing innovative approaches within a collaborative research environment and a minimum of three years of relevant postdoctoral research experience. Compensation for this position will be commensurate with qualifications and experience.

Western University is one of Canada's leading research-intensive universities, and Schulich Medicine & Dentistry has a long history of excellence in basic biomedical, applied, and clinical research. Western has a full range of academic and professional programs for over 37,000 undergraduate and graduate students (see <http://www.uwo.ca> to learn more). The university campus is in London, with a metropolitan census of approximately 530,000, located midway

between Toronto and Detroit. London boasts an international airport, galleries, theatre, music and sporting events and is located close to several lakes and facilities for outdoor activities (www.goodmovelondon.ca). Western's Recruitment and Retention Office is available to assist in the transition of successful applicants and their families to the university and city.

Please send a detailed *curriculum vitae*, a statement of research objectives, the names of three referees, and the form available at: <http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty-Position-Form.pdf> to:

Professor Jefferson Frisbee
Chair, Department of Medical Biophysics
c/o Ms. Karyn Bailey
Medical Sciences Building, MSB 407
Western University
London, Ontario Canada N6A 5C1
EMAIL: karyn.bailey@schulich.uwo.ca

Applications will be accepted until the position is filled. Review of applications will begin after August 19, 2023. Anticipated start date is September 1, 2023 or as negotiated.

Business Addresses: Western University, 1151 Richmond Street, N., London, Ontario N6A 5B8, www.uwo.ca

Positions are subject to budget approval. 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, Indigenous peoples, 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. Karyn Bailey at karyn.bailey@schulich.uwo.ca; phone 519-661-2111 ext. 86802.

*Posted on Faculty Relations website July 18, 2023.
Posting number: 2023-033*