



Post-Doctoral Scholar Position in Cerebrovascular Regulation

About Western

Western ranks as one of Canada's top research-intensive universities. From fundamental to applied discovery and other scholarly activities, its scholars advance knowledge that provides tangible benefits for the economic, social, health and cultural development of citizens in London, in Canada and around the world. Western Research supports scholars through collaboration, communication, and service. Western University and its affiliate colleges received more than \$267 million in research funding over the past year.

About the Role

Job Title: Post-Doctoral Scholar

Description of the Area of Research:

The Robarts Research Institute, Department of Physiology & Pharmacology at the Schulich School of Medicine, Western University, has a position for a Post-Doctoral scholar to work in the laboratory of Donald G. Welsh PhD, the Rorabeck Chair in Vascular Biology and Neuroscience. We seek a motivated scientist interested in pursuing vascular biology research from the cell to the whole organism. Our research focuses on ion channels ($Ca_v3.1/3.2$, Cx40 and $K_{IR}2.1/2.2$) and electro-mechanical coupling in cerebral arterial resistance arteries from normal and diseased tissue. We rationalize concepts with computer modeling, then test them on vascular tissue harvested from humans and genetically modified mice or rats. Key techniques include myography, electrophysiology, biochemistry, magnetic resonance imaging, transgenics and microscopy including confocal and multiphoton. Individuals with a strong command of English, and with experience in vascular biology and or molecular biology are encouraged to apply.

Remuneration & Benefits

Competitive salary and benefits include universal healthcare and a health spending account is provided. Post-doctoral scholars are expected to apply for scholarships as applicable but are not essential for remuneration.

Application Details (process/start date/duration):

Applications will be reviewed as received until the position is filled. Please send a letter of application including a one-page description of research experience and interests, an updated curriculum vitae, and names and contact information of 3 references to: dwelsh@robarts.ca. Start date negotiable and flexible in line with visa application timeframes. An initial 2-year term will be offered with opportunity for an extension.

Qualifications:

- A Ph.D. degree in physiology, medical biophysics, or neuroscience obtained within the past 2 years, with a strong background in live tissue handling and experience in vascular biology and or molecular biology;
- A strong understanding of research design, research methodology and data analysis;
- Evidence of experience in preparation and publication of manuscripts;
- Excellent oral communication and technical writing skills;
- Excellent computer skills (Microsoft Office, EndNote, CorelDraw, SigmaPlot);
- Ability to take guided initiative and to work in an organized fashion with flexibility in shifting between independent and collaborative work;
- Ability to assist in the training of undergraduate and graduate students; and
- Demonstrated collegiality, professionalism, and interpersonal skills.

The post-doctoral scholar duties will include but are not limited to organizing/implementing a focused research agenda, developing new methods and approaches, data collection and interpretation, writing scientific articles, and mentoring graduate/undergraduate students. Candidates are expected to be effective communicators and to present their research findings to peers at local, national, and international meetings. The successful candidate will be integrated into a postdoctoral training program and given opportunities to develop teaching experience.

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, Indigenous 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.

Non-Canadian citizens or non-permanent residents will require a valid work visa prior to employment.

Important Note

Effective September 7, 2021, all employees and visitors to campus are required to comply with [Western's COVID-19 Vaccination Policy](#).

Posting date: September 20, 2022.

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