

RESEARCH ASSOCIATE
Department of Cellular & Physiological Sciences
University of British Columbia

The Department of Cellular and Physiological Sciences at the University of British Columbia in Vancouver, BC, seeks an experienced cardiac physiologist to work in a laboratory studying structure-function relationships in cardiomyocytes. The successful candidate will assist in conducting research central to the mission of the lab, supervise trainees and oversee project-planning and related work towards developing and obtaining funding for the laboratory. The candidate must have a comprehensive knowledge of cardiac cell physiology, as well as ion channels and cellular pathways involved in excitation contraction coupling in both cardiac and skeletal muscles. Expertise in isolating primary muscle cells, tissue culture (primary and cell lines) as well as extensive experience of recording and analyzing intracellular calcium transients and sparks using confocal fluorescence microscopy is required. Expertise in correlative light and electron microscopy, and both conventional and cryo sample preparation for electron microscopy are required skills. The successful applicant also requires expertise in data collection, image analysis and modeling using both iMOD and Amira software. Experience on the FEI Tecnai G2 electron microscope is preferred as is familiarity with molecular biological techniques and planar lipid bilayers.

Job duties: This position is for an individual with at least 4 years of post-doctoral experience in a research laboratory setting studying structure-function relationships in cardiomyocytes. The successful candidate must be highly motivated and have demonstrated ability to work independently, supervise staff, postdocs, graduate and undergraduate students. Excellent verbal and written communication skills are a necessity as well as the ability to work in a team environment.

The candidate must have flexible hours as evening and weekend work will be necessary. Excellent interpersonal skills are required to fulfill collaborative studies and training responsibilities, as well as for managing the laboratory when the PI is absent. The applicant will be responsible for ordering consumables, preparing reports and for assistance in writing proposals, manuscripts and presenting results at international conferences.

The successful candidate will have a PhD in physiology, or related discipline, and have extensive knowledge of cardiac ultrastructure and intracellular calcium ion regulation. Candidates should also be comfortable working in both UNIX and Microsoft environments. Successful completion of the CCAC Experimental Animal User Training Program at UBC is preferred. This position might require teaching undergraduate courses therefore knowledge of pedagogy or holding CIRTLL associate certificate is beneficial. Applicants should submit a statement detailing their relevant research experience in the required areas. A CV and three references should be sent to the following by July 31, 2019: Dr. Edwin D Moore, Professor and Head, Department of Cellular & Physiological Sciences, University of British Columbia, 2350 Health Sciences Mall, Vancouver, BC, Canada or edwin.moore@ubc.ca.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. UBC is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, personal of any sexual orientation or gender identity, and others who may contribute to the further diversification of ideas. However, Canadian and permanent residents of Canada will be given priority.