

Department of Cellular & Physiological Sciences
Faculty of Medicine
University of British Columbia

RESEARCH ASSOCIATE
CEMBROWSKI LABORATORY

The Department of Cellular & Physiological Sciences at the University of British Columbia invites applications for a Research Associate in the field of Neuroscience.

The Cembrowski Laboratory, located within the Life Sciences Institute (<http://www.lsi.ubc.ca/>) at the University of British Columbia (www.ubc.ca) in Vancouver, Canada, is seeking a full-time Research Associate (RA). Our laboratory studies memory in the mouse brain from a multidisciplinary perspective, using a suite of cutting-edge multiscale experiments in conjunction with mathematical analysis. We are seeking a RA to perform mouse behavioural experiments to identify hippocampal contributions to fear memory. This research aims to understand the neurobiological computation of fear memory by interpreting mouse behaviour in terms of underlying neural circuits and cells.

The successful applicant will train mice in hippocampal-associated behavioural paradigms, and as well conduct one-photon calcium imaging during freely-moving behaviour via head-mounted miniature microscopes. The RA will also perform associated methods for this behaviour, including implantation of GRIN lenses and stereotactic injections of viruses and beads, as well as manual and automated analyses of behavioural experiments. Histological techniques (immunohistochemistry and/or *in situ* hybridization), and associated microscopy and analysis, will also be conducted by the RA. The RA is expected to train students and technicians as needed.

Qualified applicants should possess a PhD in neuroscience or in a related discipline with a minimum of 10 years of research in rodent behaviour, including hippocampal-dependent behavioural paradigms. Practical experience with rodent stereotactic surgeries, mouse transgenic systems, histological techniques, and quantitative image analysis is required. Practical knowledge of hippocampal circuitry, memory, and fear/stress/anxiety is strongly preferred. The ideal applicant will also have an established track record of scientific and training excellence, as well as effective oral and written communication skills.

Applicants should submit a CV, a statement of research interests, and the names and contact information of three references to cembrowskim@janelia.hhmi.org. The deadline for applications is July 31, 2018. The successful candidate will be appointed for one year, with the possibility of renewal. The start date will be January 1, 2019.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority.