Position Title: Regular Research Associate

Hiring Unit: Department of Physiology

Supervisor: Dr. Reza Sharif Naeini, Assistant Professor

Work Location: Life Sciences Complex (Bellini), room 173 3649 Promenade Sir William Osler

Hours/Week & Schedule: 35 hours/week - Monday to Friday

Hourly Wage: $24.19

Planned Start Date & End Date: June 1, 2017 to May 31, 2018

Date of Posting: (minimum 5 working days) April 12, 2017

Deadline to Apply: April 24, 2017

**PRIMARY DUTIES**

My research program aims to understand the neuronal networks underlying our senses of touch and pain, and to determine how the properties of these networks changes during chronic pain. To date, our research has focused on a subset of inhibitory interneurons containing the marker parvalbumin. The research will aim at controlling the activity of these neurons in awake freely-moving mice using optogenetic tools. Our aim is to understand the coding properties of these neurons. Overall, these questions will be addressed using molecular biology, cell cultures, spinal cord slice electrophysiology, behavioral methods of touch and pain testing, as well as optogenetic cannulation surgeries and manipulations.

**Duties:**

The Research Associate will be expected to design experiments and protocols independently relevant to the project described above using the following techniques:

- Spinal cord slice electrophysiology and calcium imaging, microsurgery, behavioral testing.

- Research Associate will be asked to assist in preparation of manuscripts for publication.

- Should be able to critically interpret experimental data derived from the approaches described above in order to evaluate the efficacy of the experimental approaches employed.

- Will be asked to give oral and written reports on experimental progress (including lab meeting presentations).

- Assist in undergraduate and graduate student supervision.
### EDUCATION/EXPERIENCE

Applicants require a PhD in physiology or neuroscience with 5 years of research experience, and should have publications in peer-reviewed journals.

### OTHER QUALIFYING SKILLS & ABILITIES

Applicants should have strong critical thinking skills and will be asked to troubleshoot experiments independently. A strong background in neuroscience and electrophysiology is mandatory.

### HOW TO APPLY

Please submit your application to: reza.sharif@mcgill.ca

Applicants are invited to submit their cover letters and resumes via email to: reza.sharif@mcgill.ca

We thank all applicants for applying, however, only selected candidates will be contacted.

*McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities, and others who may contribute to further*