

**Posting
RESEARCH ASSISTANT**

Position Title:	Research Assistant (Part Time)
Hiring Unit:	Biochemistry
Supervisor:	Dr Bhushan Nagar
Work Location:	Bellini Building Room 456.
Hours/Week & Schedule:	Monday-Friday. 19.5 hours per week
Hourly Wage:	\$28.44
Planned Start Date & End Date:	October 1, 2020 – December 31, 2020
Date of Posting: (post for 5 working days minimum)	September 21, 2020
Deadline to Apply:	September 25, 2020

PRIMARY DUTIES

The task is the co-crystallize small molecule inhibitors with ENPP3, an ecto-nucleotide pyrophosphatase/phosphodiesterase enzyme., which is involved in purinergic signalling. The candidate will purify ENPP3 from insect cells using an FPLC system and column chromatography. The purified protein in the presence of inhibitors will be subject to crystallization trials using an NT8 robot system. Crystal 'hits' will be subject to X-ray diffraction data collection and the structure will be determined using molecular replacement. The structures of the inhibitor complexes will be analyzed for their interactions with ENPP3

The candidate will be responsible for analysis and interpretation of results; the preparation of manuscripts, grants and research reports for funding agencies. The candidate is expected to work independently and trouble-shoot experiments and deliver reliable data that has been rigorously analyzed by other members of the team. In addition, the candidate is expected to plan future experiments based on recently obtained results and to execute them.

EDUCATION/EXPERIENCE

- **For Research Assistant – minimum requirement: Master's Degree**

A Master's Degree

OTHER QUALIFYING SKILLS & ABILITIES

Knowledge of basic computer software for data analysis, quantification, and statistical analyses.

HOW TO APPLY

Please submit your application to:

Please send your cover letter, CV and contact information for two referees by email to Bhushan.Nagar@mcgill.ca

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 diversification.