

**Posting  
RESEARCH ASSOCIATE**

<b>Position Title:</b>	Research Associate
<b>Hiring Unit:</b>	Biology
<b>Supervisor:</b>	Dr. Melania Cristescu
<b>Work Location:</b>	1205 Docteur Penfield, Montreal, QC H3A 1B1
<b>Hours/Week &amp; Schedule:</b>	26 hours per week
<b>Hourly Wage:</b>	\$27.18
<b>Planned Start Date &amp; End Date:</b>	April 15 2020 – April 14 2021
<b>Date of Posting:</b> (post for 5 working days minimum)	March 12, 2020 – March 19, 2020
<b>Deadline to Apply:</b>	March 19, 2020

**PRIMARY DUTIES**

The Research Associate will be involved in long-term and highly replicated laboratory and field experiments on the effect of multiple stressors on the structure and function of aquatic communities. The research will involve developing and implementing bioinformatic tools for analyzing metabarcoding and metagenomics data sets and assessing biodiversity trends for broad taxonomic groups (bacterial, phytoplankton, zooplankton).

**Research Objectives/Sub-Objectives:** 1) Develop sensitive metabarcoding bioinformatics protocols to describing aquatic communities; 2) Investigate the impact of multiple stressors on complex aquatic communities.

**Methodology:** 1) Use high-throughput sequencing to develop metabarcoding and metagenomics protocols for describing aquatic communities in complex environmental samples; 2) Validate protocols; 3) Apply protocols on highly replicated field experiments.

**EDUCATION/EXPERIENCE**

- **For Research Associate – minimum requirement: Ph.D. + 5 years research experience**

Experience with next generation sequencing or large sequence data and related bioinformatics / computational / programming skills is required. Familiarity with one or more of the following would be an advantage: genomics, transcriptomics, phylogenetic analyses, genome evolution / programming language (R/Unix/Python or Perl). Experience working with aquatic organisms would be an asset. The candidate

should have a PhD in evolution / genetics / computational biology, a good publication record and the ability to work well in a collaborative research environment.

**OTHER QUALIFYING SKILLS & ABILITIES**

NA

**HOW TO APPLY**

**Please submit your application to:**

Applicants should send a curriculum vitae, short statements of research interests, and 3 representative publications to [melania.cristescu@mcgill.ca](mailto:melania.cristescu@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.***