

Two (2) MSc in Biology positions: Leaf functional trait evolution across biomes

Background

Plant functional traits play an important role in regulating environmental systems and shaping species adaptability and ecological success. Although functional traits have been studied across plant communities and geographic space, evolutionary trends under a phylogenetic framework remain to be determined.

Project Summary

By integrating phylogenomics, data science, species distribution modeling, and spectroscopy, we aim to assess evolutionary patterns of leaf functional traits across multiple biomes using the pea family (Leguminosae) as a study system. This collaborative project will develop experience with phylogenetics and comparative methods, manipulation of large datasets, modeling, and trait estimation using plant spectra.

Qualifications

- B.Sc. in Biology, Bioinformatics, or a related field
- Experience with R or other programming languages
- Interest in biogeography/GIS, chemistry, or ecology an asset

Details

The candidates will be based at the Université de Montréal's Institut de recherche en biologie végétale (IRBV), under the supervision of Anne Bruneau, in collaboration with Warren Cardinal-McTeague ([website](#)). Applicants should send their **CV** and a **brief letter of motivation** referencing relevant skills to anne.bruneau@umontreal.ca. Application review will start **15 December 2019** and continue until the position is filled, with start dates available in either **January or May 2020**.

Diversity and Inclusion

To support diversity and inclusion we invite qualified candidates who are women, Indigenous peoples of Canada (First Nation, Inuit, Métis) and abroad, persons of visible or ethnic minorities, persons of the LGBTQ2SA community, and/or persons with disabilities, to apply.

Position

Maîtrise en sciences biologiques, Université de Montréal

Location

Centre sur la biodiversité de l'Université de Montréal
Institut de recherche en biologie végétale (IRBV)
Département de sciences biologiques
Université de Montréal

<https://www.irbv.umontreal.ca>

<https://bio.umontreal.ca/accueil>