Five two-year postdoctoral positions in plant biodiversity

The Canadian Airborne Biodiversity Observatory (CABO) seeks to understand how environmental changes are altering plant biodiversity in Canadian ecosystems, using spectranomics (spectral signatures and images of plant leaves and canopies). CABO is funded by NSERC's Discovery Frontiers Program and involves researchers from four Canadian universities: Université de Montréal (UdeM), McGill, University of British Columbia (UBC), and Université de Sherbrooke (UdeS).

We are currently looking for **five two-year postdocs** to address core research questions of our project, making use of field and imagery data collected in the first two years (2018 and 2019) of CABO across sites in forests, grasslands, wetlands, and tundra. The five research topics of interest are listed below, with the name of the primary supervisor and location of tenure for the postdoc in parentheses. For all positions we seek candidates with high-level skills in handling and analysis of the relevant data types (preferably in R or Matlab), and a proven record of publishing on relevant topics. Details about each project are available by following the links below.

1. **Phylogenetic structure of leaf spectra** (Anne Bruneau, UdeM; details here)
2. **Leading dimensions of leaf spectral variation, and predicting traits from spectra** (Etienne Laliberté, UdeM; details here)
3. **Plant spectral diversity as an integrator and predictor of community-level taxonomic and functional diversity** (Mark Vellend, UdeS; details here)
4. **Vegetation community and functional trait mapping from airborne and UAV hyperspectral imagery** (Margaret Kalacska, McGill; details here)
5. **Mapping plant traits across Canadian ecosystems using Hyperion data** (Nicholas Coops, UBC; details here)

Applicants should send a letter explaining their motivation and relevant skill set, a CV and the names of three references to caboscience@gmail.com. Applicants should mention in their letter of motivation which of the five topic(s) they want to work on, and justify this choice.

The **deadline for sending in applications is October 15th 2019**, but we will consider applications until all five positions are filled. The **expected start date would be in January 2020**, with some flexibility.