

The Department of Biology at the University of Regina is seeking applications for a qualified post-doctoral researcher to investigate the dynamics of the pan-tropical forest carbon sink.

This research project will use data from a network of long-term forest inventory plots spanning Amazonia and tropical Africa to determine how tree-level vital rates (growth, mortality, and recruitment) vary in response to both climate and local competition. Resulting demographic models will be integrated into a cohort-based model of forest dynamics to predict how the structure, composition, and biomass of tropical forests are expected to evolve under future climate change scenarios. The position offers an exciting opportunity to combine cutting-edge quantitative methods with an extensive data set to predict the broad-scale dynamics of tropical forests and their implications for carbon sequestration across two continents.

Candidates must have a PhD in ecology or related field, along with strong quantitative and writing skills. Preference will be given to candidates with (1) a research background in forest ecology; (2) computational proficiency and modelling skills (programming, advanced statistics, management of large data sets); and (3) a proven publication record in peer-reviewed journals.

To apply, please send a cover letter outlining your research experience and interests, a CV, and contact information for three references to Dr. Mark Vanderwel (mark.vanderwel@uregina.ca). Review of applications will begin Nov 24.