

# Work opportunity in northern hydrometeorology



Project description: Forest disturbances (e.g., wildfire, mountain pine beetle infestation, timber harvesting) are cumulatively affecting hydrological processes, which consequently lead to increased risks of floods, landslides and other hazards. Forest disturbance thresholds are those above which significant hydrological alterations are caused. Thus, determining forest disturbance thresholds can support designing of forest and watershed management strategies for preventing negative and cumulative hydrological effects. This study will analyze long-term data on hydrology, climate and forest disturbance from 6-10 selected watersheds in Interior British Columbia to demonstrate how forest disturbance thresholds are quantified.

Position description: As part of this project, we invite applications for a **research associate** (RA) having a comprehensive knowledge of British Columbia's climate and hydrology, atmospheric and climate datasets and with excellent computational, programming, and communication skills. Experience in the use of GIS software (e.g. ArcGIS or QGIS) and in the application statistical analyses is an asset. Applicants must hold a M.Sc. in the atmospheric sciences, hydrological sciences or related fields, and preference will be given to those with experience manipulating large climate datasets. Applicants must be able to work independently as well as in a team environment and have the ability to prepare papers for peer-reviewed journals. The successful candidate will be based at the University of Northern British Columbia (UNBC) in Prince George, BC, and will work collaboratively with researchers at the University of British Columbia Okanagan (UBCO) and at Thompson Rivers University (TRU). UNBC is committed to employment equity and encourages applications from women, aboriginal peoples, persons with disabilities, members of visible minorities and the LGBTQ community. The successful candidate will receive six months of financial support starting in July 2019 with the possibility of a renewal if progress is satisfactory and depending on the availability of funds.

Interested applicants should contact Dr. Stephen Déry at [sdery@unbc.ca](mailto:sdery@unbc.ca) with a cover letter highlighting research interests and experience relevant to this position, an up-to-date curriculum vitae, unofficial transcripts, and the names of at least two potential references. **The application deadline is Friday 7 June 2019.**