

**Hydro-Climate Data Scientist**  
**Wilfrid Laurier University & Government of the Northwest Territories**

Wilfrid Laurier University in collaboration with the Government of the Northwest Territories seeks a highly motivated individual to fill the position of Hydro-Climate Data Scientist. The successful candidate will work on developing code to automate analysis of large hydrological, micrometeorological, and climate datasets in the Northwest Territories (NWT). As a member of the *DPA* (Discontinuous Permafrost Alliance) Data Team based in Yellowknife, Northwest Territories, Canada, the candidate will report to William Quinton (Wilfrid Laurier University) and Ryan Connon (Government of the Northwest Territories (GNWT)). This position will develop R functions (with the potential to develop or co-develop packages) to QA/QC and analyse climate datasets across the NWT including a dense monitoring network at the Scotty Creek Research Station, as well as the GNWT climate monitoring network. Key climate parameters include four component radiation, air temperature, relative humidity, wind speed and direction, and precipitation. The data record at Scotty Creek also includes water levels, ground temperatures, soil moisture, geophysical measurements of the distribution of permafrost, and other manual measurements. This position will assess spatial and temporal changes to these variables and use that information to determine how climate change is affecting permafrost and hydrological conditions in the NWT. To this end, the position will also leverage federal hydrometric and climate data to determine impacts at the watershed scale. It is expected that the candidate will also develop R code to facilitate this analysis in support of publications and other dissemination. The successful candidate will collaborate with DPA's Knowledge Mobilisation team to ensure proper and respectful engagement and dissemination through workshops, plain language materials, and other means.

The position will commence on October 1, 2021. It is a one-year position with the possibility of renewal for an additional year. The salary will be \$44 per hour plus 4% vacation pay for 35 hours per week and will include an additional \$1,000 for relocation expenses.

The successful candidate should have experience with coding and managing meteorological datasets. Preference will be given to candidates who have a strong background in environmental science (*e.g.* hydrology, permafrost, climatology). It is expected that the candidate will have a Master's degree, however exceptions will be considered.

Interested candidates should contact William Quinton or Ryan Connon with a CV and brief cover letter describing their interest in this position.

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