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Job Posting: Hydrologist
Closing Date: 15 January 2010

PCIC is seeking to hire a Hydrologist

Pacific Climate Impacts Consortium (PCIC):

The Pacific Climate Impacts Consortium (PCIC) was created to assess climate impacts in Pacific North America. The goals of the Consortium are to foster collaborative research, to strengthen the capacity to address regional climate change and variability, and to provide the scientific basis for development of policy. PCIC links scientific research and applications, researchers and users, and geophysical sciences and climate centres in Pacific North America. The Consortium advises on adaptation options and long-term planning to reduce vulnerability to climate variability, climate change, and extreme weather events. The Consortium seeks to fill a Hydrologist position. http://www.PacificClimate.org

Challenge

The Hydrologist works as part of a multi-disciplinary team of scientists to carry out hydrological analysis throughout British Columbia and Pacific North America. The incumbent will have an opportunity to apply hydrologic knowledge in a complex terrain with a large geographic expanse, and a climate that ranges from arid to humid.

Nature of Work

The Hydrologist works with a team of Hydrologists and Data Analysts to develop and operate a hydrologic model for selected BC watersheds. Hydrology team members report to the Lead Hydrologist and work closely with other members of the PCIC staff. The incumbent must also collaborate with members of the Consortium, other hydrology professionals and sponsors of the project at BC Hydro and the Provincial government. This is an opportunity to collaborate with the Water & Climate Impacts Research Center (W-CIRC) at the University of Victoria and with the River Forecast Centre with the BC Ministry of Environment.

Accountabilities:

- Conducts targeted research relating to the hydrology and climate science in British Columbia.
- Applies research results to estimate hydro-climatic impacts on water resources and power generation.
- As part of the hydrology team, develops, advances and maintains a program of applied research.
- Designs and executes hydrological model experiments and intercomparison studies.
- Prepares scientific reports, publications and presentations.

- Delivers public presentations and reports.
- Maintains and develops new relationships with Consortium members and stakeholders.

Knowledge, Skills & Abilities

Knowledge:

- Master of Science degree in Hydrology, Meteorology, Physical Geography, Earth Science, Engineering, Forestry, or Environmental Science and Resource Management with a strong focus on hydrology plus 3 years related experience.
- A sound understanding of mountain hydrology and climate change science at a range of scales from local, to regional, to sub-continental.
- Knowledge of climate change impacts on water quantity, streamflow, and hydrological responses and feedbacks in mountainous terrain dominated by snow/ice processes.
- Experience with the use of hydrologic models in complex terrain, and understanding of hydrologic models applied in B.C. (e.g. WatFlood, VIC, DHSVM, HEC-HMS, HBV, UBCWM).

Skills:

- Excellent written oral and interpersonal skills.
- Experience with watershed modelling methodology and tools.
- Experience working with large datasets.
- Advanced statistical background (PCA, etc.)
- Knowledgeable on available datasets and their uncertainties and limitations.
- Familiarity with GIS mapping systems.
- Familiarity with statistical graphing packages.
- Experience with computer code languages such as R, C+, IDL, LINUX is considered an asset.

Abilities:

- Work as a member of a multidisciplinary scientific team.
- Produce proposals and technical reports on deadline.
- Present at technical meeting and public presentations.
- Ability to simplify and summarize complex technical information for public presentation.

Employment period

1-3 year term commitment, with possibility of renewal.

Weekly working hours	**Pay rate**
Full time (37.5 hours/week)	Commensurate with education and experience.

Additional information: Contact Cassbreea Dewis (climate@uvic.ca)

Application: Please send your application with a CV, including three professional references. Address cover letters to Mrs. Cassbreea Dewis, climate@uvic.ca