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Job Posting: Climate Data Analyst in Climate Analysis and Monitoring Theme

PCIC is seeking to hire a Climate Data Analyst

Pacific Climate Impacts Consortium (PCIC)

The Pacific Climate Impacts Consortium is a regional climate service centre that bridges the gap between climate science and the needs of stakeholders in British Columbia and across Canada. PCIC provides accessible, credible information to these stakeholders about past and future climate conditions for their regions and what these changes might mean. This supports decision makers as they develop plans and policies that account for and minimize the risks that they face due to the changing climate. To do this, PCIC performs a variety of functions, including: compiling and providing quality-controlled data; downscaling the output of global climate models; performing hydrologic modelling; translating current research findings; providing interpretation of technical climate science data for decision makers; and performing research in a variety of areas. <http://www.PacificClimate.org>

Job Description

Come join PCIC and its stakeholders in our efforts to continually improve climate services in British Columbia and western Canada. The Pacific Climate Impacts Consortium (PCIC) hosts over two dozen scientists, analysts, post-doctoral fellows and students performing leading edge applied climate research. A major component of PCIC's services is characterising the climate of British Columbia using a comprehensive archive of weather observation data and interpolating that data at high spatial resolution using PRISM climate mapping software. The data are also used to characterize the historical occurrence and frequency of extreme values and to provide a validating baseline to climate modelling and climate model downscaling in the province.

The climate data analyst will work as part of the Climate Analysis and Monitoring theme within PCIC and will be instrumental in improving the quality and availability of the data used in major projects related to climate mapping and extremes analysis. This includes characterizing climate and its changes in innovative ways, assessing the data used in climate products and improving and augmenting the data where possible including via the use of multi-station quality control or machine learning approaches. These tasks require a good understanding of high-volume data processing, database management and statistics. Skills must be supported by fluency in open source computational and programming tools such as Linux and R. Furthermore, an understanding BC's climate and the challenges of weather observation in the province is desirable.

Accountabilities

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- Assist with the climatological characterization of the region using a large archive of weather data.

- Develop new 1981 – 2010 and 1991 – 2020 climate normals and climate normal maps.
- Develop data acquisition streams for US and other non-BC data.
- Address user-highlighted issues with specific station records.
- Apply tools to assess occurrence of extremes in Canada.

Knowledge, Experience, and Ability

Knowledge

- B.Sc. or M.Sc. with major in Meteorology, Geophysics, or other numerate Earth Science or Computer Science with an interest in earth science/climatology.
- Strong programming skills preferably in R and Python.
- Familiarity with version control tools such as Git.
- Strong organizational and documenting abilities.

Experience

- Demonstrated work with data analysis and handling of observational data ideal.
- Demonstrated ability to manage projects on long and short term.
- Experience working with open source software tools/operating systems.

Abilities

- Work in a self-directed manner and within a team environment.
- Able to survey current practice and improve methods where needed.
- Willing to be flexible with job duties.

Employment period

2 year term commitment, subject to satisfactory completion of a 6-month probationary period, with possibility of renewal dependent on continued funding.

Weekly working hours

Full-time (37.5 hours per week)

Pay rate

Commensurate with education and experience

Additional information: Address enquiries to Faron Anslow at climate@uvic.ca.

Application: Please send your application including a cover letter, CV, and three professional references to Faron Anslow, climate@uvic.ca, with “**ATTN: CAM Climate Data Analyst**” in the subject line. Please indicate whether you are legally able to work in Canada.

Review of applicants will start **immediately** and will continue until a suitable candidate is found.