



University House 1
PO Box 1700 STN CSC
University of Victoria
Victoria BC Canada V8W 2Y2
Phone: (250) 721-6236
Fax: (250) 721-7217
Website: <http://pacificclimate.org/>

Assistant Hydrologic Programmer/Analyst (Co-op) Computational Support Group

Job Description

The Pacific Climate Impacts Consortium (PCIC) is a regional climate service centre at the University of Victoria that provides practical information on the physical impacts of climate variability and change to users and stakeholders in BC and across Canada. The *Assistant Hydrologic Programmer/Analyst* works to build software and technology to incorporate climate information into Pacific salmon management strategies. Working with PCIC's Computational Support Group and Hydrologic Impacts theme, you will develop and deploy the informational infrastructure (summary data, statistics and climate-based salmon vulnerability maps) and web-based tools to provide risk assessments for fisheries planning and management in support of wild salmon conservation and protection. The project is funded through the Fisheries and Oceans Canada British Columbia Salmon Restoration and Innovation Fund (<https://www.dfo-mpo.gc.ca/fisheries-peches/initiatives/fish-fund-bc-fonds-peche-cb/index-eng.html>).

You will be a part of a talented and dedicated team that enables access to PCIC's flagship data products and innovative web-based analysis tools. Your software will play a key role in informing government policy with respect to the impacts of climate change. Your code will see the light of day and be used immediately to study climate change and disseminate climate change information to users and stakeholders.

Accountabilities

- Integrate existing hydrologic software into PCIC's cloud-based, asynchronous computation platform
- Analyze the availability of existing climate information, existing decision support tools and develop requirements and use cases for future tools
- Assist in application development, as needed
- Collaborate with developers and scientists in a multi-organizational coalition
- Reports to the Lead, Computational Support

Knowledge, Experience, and Abilities

Knowledge

- Majoring (or prior degree) in Computer Science, Computer Engineering, Mathematics, Statistics or a related field of study, or a commensurate level of experience
- Working knowledge (able to read and write) of 2+ programming languages (e.g. R, Python)
- Knowledge of Big O notation and algorithm complexity analysis
- Some knowledge of climate or environmental science is a plus
- Some knowledge of cartography or Geographic Information Systems is a plus

Experience

- Experience at a minimum of two previous work terms for undergraduate candidates
- Experience as a Linux user
- Experience with distributed revision control software, git and GitHub
- Experience with cloud-based technologies or remote software execution

Abilities

- Ability to work effectively and collegially with others inside and outside of the organization
- Excellent communication skills, both written and verbal; ability to communicate clearly and constructively with all members of the team; ability to request help from peers and colleagues when necessary

Other Details

- Employment period: This is a January to April 2022 co-op work term position.
- Salary: Commensurate with education and experience.
- Weekly working hours: Full time (37.5 hours per week).
- A successful candidate must live in BC.

Additional information: Address enquiries to James Hiebert at climate@uvic.ca.

Application: Please send your application including a cover letter, CV, and three professional references to James Hiebert, climate@uvic.ca, with “ATTN: *Assistant Hydrologic Programmer/Analyst (Co-op)*” in the subject line.