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Hydrologic Programmer/Analyst Computational Support Team

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 *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 (BCSRIF) 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

- Analyze the availability of existing climate and hydrology information, existing decision support tools, and develop requirements and use cases for innovative management tools
- Assist in the development of specifications, the implementation of unique vulnerability and risk assessment tools, and perform creative strategic thinking to arrive at novel solutions
- Collaborate with developers and scientists in a multi-organizational coalition
- Reports to the Lead, Hydrologic Impacts Theme

Knowledge, Experience, and Abilities

Knowledge

- Master's degree in Computer Science, Computer Engineering, Mathematics, Statistics or a related field of study; or five years related experience
- Working knowledge (able to read and write) of 5+ programming languages (e.g., Python, R, JavaScript)
- Knowledge of Big O notation and algorithm complexity analysis
- Knowledge of climate or environmental science
- Knowledge of cartography or Geographic Information Systems

Experience

- Experience as a Linux user
- Experience with distributed revision control software, git and GitHub
- Experience with cloud-based technologies or remote software execution
- Experience working with hydrology or climate data and the ability to translate problems between domains
- Experience with risk and vulnerability assessments, particularly in an ecological, fisheries or wildlife context is a plus

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: 2-year term commitment
- Salary: Commensurate with education and experience
- Weekly working hours: Full time (37.5 hours per week)
- A successful candidate must live in or relocate to BC
- Start date: October 2021

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: Hydrologic Programmer/Analyst**” in the subject line. Please specify whether or not you are currently able to work legally in Canada.

Review of applicants will start **immediately** and will continue until suitable candidates are found.