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Co-op Position: Assistant 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 *Assistant Programmer/Analyst* works to develop and maintain high-quality scientific software from experimental software prototypes. In collaboration with PCIC climate scientists and the Computational Support team, the successful candidate will write software for incorporating climate change scenarios into engineering design guidelines for built infrastructure.

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 open source 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

- Assist in the development and refactoring of PCIC's infrastructure design guidelines software library
- Assist in refactoring research prototypes into composable, reusable, open source software
- Assist in developing automated software testing suites to ensure software quality
- Collaborate with climate statisticians within PCIC to validate all software
- Reports to the Lead, Computational Support

Knowledge, Experience, and Abilities

Knowledge

- Majoring 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 differential equations, linear algebra, probability and statistics
- Knowledge of Big O notation and algorithm complexity analysis
- Some knowledge of environmental statistical analysis methods is a plus

Experience

- Experience at a minimum of two previous work terms
- Experience as a Linux user
- Experience with distributed revision control software (e.g. git)
- Experience using Test Driven Development and continuous integration is a plus

Abilities

- Ability to break problems into multiple reusable components
- Attention to detail
- Ability to work effectively and collegially with others inside and outside of the organization
- Ability to learn and understand our domain-specific needs (i.e. Climate Science)
- Ability to communicate technical material in a multi-disciplinary environment

Employment period

This is a September to December 2018 co-op work term position.

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

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 Programmer/Analyst Co-op**" in the subject line.