Programmer/Analyst
Computational Support Team

Job Description

The Pacific Climate Impacts Consortium (PCIC) is a leading regional climate service and research centre. The Programmer/Analyst works as a software generalist and is as comfortable writing web application backends as s/he is digging into the runtime complexity of climate data processing algorithms. PCIC infrastructure presently includes a rack full of Linux servers that host hundreds of terabytes of high-resolution spatio-temporal climate data and model output. The challenge of this position is to design and implement technical solutions for using that data to interpret the effects of climate change on British Columbia.

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. You will play a key role in building applications that provide public access to and creative visualization of open and big data. Your code will see the light of day and be used immediately to study climate change.

Why Work at PCIC?

Help to build the foundation upon which great service delivery and scientific solutions are developed. We offer flexible working hours, good annual leave, Christmas to New Year's off, excellent benefits and pension plans. You will have your own office, the freedom to plan your day, and the resources to creatively deploy enterprise-level solutions. The office culture features weekly "recess" (with free snacks) and Friday afternoon outdoor socials (during fair weather). With our offices at UVic, your breaks can easily include a walk on the beach, a hike in the woods, or taking advantage of the many campus amenities.

Responsibilities

- Lead the back-end development and assist in the front-end design and development of PCIC's Climate Explorer
- Assist in maintenance and support of PCIC's Data Portal and Plan2Adapt tool
- Assist in the development of data processing pipelines and data management of large scale climate data
- Assist in scientific programming support
- Assist in IT support (storage/backup management, system administration) as needed

Knowledge, Skills & Abilities

Knowledge

- Bachelor's degree majoring in Computer Science, Software Engineering or a related field of study, or a commensurate level of experience
- Knowledge of Big O notation and algorithm complexity analysis
- Working knowledge (able to read and write) of 2+ programming languages (e.g. Python, R, C, C++, JavaScript)
- Knowledge of Open Source Software (OSS) for geospatial and map projections is a plus.
- Some knowledge of climate science is a plus.

Experience
- Significant experience as a Linux user
- Experience with distributed revision control software (e.g. git)
- Experience developing Open Source Software is desirable
- Experience parallelizing large problems is desirable
- Experience using profiling and debugging tools (e.g. gdb, pdb)
- Experience using relational databases and SQL (e.g. PostgreSQL/PostGIS)
- Experience using Test Driven Development and writing automated test suites is a plus

Abilities
- Ability to estimate problem size and ability to process datasets which are larger than available RAM
- Ability to work effectively and collegially with others inside and outside of the organization
- Ability to communicate technical concepts to (non-computational) scientific staff
- Ability to work with a geographically distributed team is a plus

Employment period

1-Year term commitment, with potential for renewal

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: Programmer/Analyst**" in the subject line. Please indicate whether you are legally able to work in Canada. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.