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Website: http://pacificclimate.org/

Job Posting: Geospatial Programmer/Analyst
Closing Date: 3 August 2012

PCIC is seeking to hire a Geospatial Programmer/Analyst, Computational Support.

Pacific Climate Impacts Consortium (PCIC)

The Pacific Climate Impacts Consortium (PCIC) was created to assess climate impacts in the Pacific and Yukon Region of Canada. The goals of the Consortium are to foster collaborative research, to strengthen the capacity to address regional climate change and variability, and to provide the scientific basis for development of policy. 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. Through collaboration with climate researchers and regional stakeholders, PCIC produces knowledge and tools in support of long-term planning. http://www.PacificClimate.org

Challenge

The Geospatial Programmer/Analyst, Computational Support works as part of a multi-disciplinary team to develop geospatial data analysis software, manage spatial data, and design and produce maps and assist PCIC scientific staff. The incumbent provides programming support and geospatial information management to a variety of targeted research projects concerning climate change, climate analysis and climate impacts in Pacific North America.

Nature of Work

The Geospatial Programmer/Analyst, Computational Support works under the supervision of the Lead, Computational Support. The position collaborates with other members of the Computational Support Group to support projects led by a staff of scientists. The PCIC work environment requires flexibility with job duties and a capability to adapt to changing organizational priorities and needs.

Accountabilities

- Develop and contribute to geospatial web applications and libraries for the interpretation of climate information.
- Design and provide geospatial data visualization and mapping support for the interpretation of climate information.
- Efficiently collect, organize and manage large spatio-temporal climate data sets to provide fast access to scientific questions.
- Maintain familiarity and competency with spatial programming libraries and maintain awareness of PCIC's climate data sets.

Knowledge, Skills & Abilities

Knowledge and Experience

- Bachelor's Degree in Computer Science, Electrical Engineering or related disciplines or experience in developing geospatial web applications. Coursework or experience in geography, cartography or GIS applications is a plus.
- Some knowledge or experience with climate science is a plus.

Skill

- Excellent programming skills in several languages (e.g. Python, Javascript, Java, R, C/C++). Experience in object oriented, imperative and declarative styles of programming. Experience in functional programming is a plus.
- Working knowledge of relational databases, SQL, SQL procedural languages and query optimization (PostgreSQL preferred).
- Familiarity with the storage and retrieval of spatial data using PostGIS, ESRI shapefiles, and the Geospatial Data Abstraction Library (GDAL).
- Familiarity with GIS packages (both proprietary and Open Source) is a plus.
- Excellent communications skills for working closely with team members.
- Asks for assistance when working beyond experience or expertise.

Ability

- Ability to work with large spatiotemporal data sets.
- Ability to find creative solutions to complex, open-ended problems.
- Work with team members and co-workers constructively and cooperatively.
- Ability to work independently, and also seek available expertise.
- Willing to be flexible with job duties.
- Operate with a professional demeanor while representing PCIC outside the organization.

Employment period

3 year term commitment, with potential for renewal.

Weekly working hours

Full time (37.5 hours per week)

Pay rate

Commensurate with education and experience.

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

Application: Please send your application with a CV, including three professional references.
Address cover letter and application to Mr. James Hiebert, climate@uvic.ca, with "**ATTN: Geospatial Programmer/Analyst Position**" in the subject line. Please indicate whether you are legally able to work in Canada.