Postdoctoral Fellow in Climate Data Analytics

Professor Steve Easterbrook’s research group in the Department of Computer Science and School of the Environment at the University of Toronto is looking for a postdoctoral fellow to work with us on a new funded project, Data Analytics for Canadian Climate Services (DACCS). The DACCS project is building a cloud-based platform to facilitate conversion of raw climate data from satellite observations and simulation models into relevant, credible and actionable information products for assessing climate impacts and risks. A key feature of DACCS is support for creating and sharing analytics workflows alongside the datasets they apply to. DACCS will integrate with existing international climate data services such as ESGF, while providing additional services tailored to the Canadian context. To build the DACCS platform, the University of Toronto is partnering with Ouranos, CRIM, PCIC, CCCma, Natural Resources Canada, McGill and Concordia Universities.

The successful candidate will assist with development of new analyses of climate impacts and risks as demonstrator applications of the DACCS platform, provide additional scientific direction to the DACCS software development team, coordinate with scientific end-users across Canada and internationally, and supervise students wishing to incorporate their data analytics workflows into DACCS. The successful candidate will also be encouraged to author papers and prepare grant applications on topics related to their own expertise.

Required Qualifications:

- A PhD in Climate Science, Computer Science, Data Science, or a closely related field;
- Experience working with large climate datasets, including GCM and satellite data;
- Experience with a variety of statistical analysis and machine learning techniques;
- Familiarity with geospatial data analysis software and standards, including Python, Jupyter, ESGF and OGC.
- Ideally, experience with large open source software development projects;

Application Instructions

All applicants should submit a CV together with a cover letter explaining their interest in the position and the names of two referees to Prof. Steve Easterbrook (sme@cs.toronto.edu) by November 30th, 2020.

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee’s research and training and the needs of the supervisor’s research program may require flexibility in the performance of the employee’s duties and hours of work.

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement. This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement.
The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.