Job Posting: 190258 - Position: Scientific Programmer, Co-op Student

Co-op Work Term Posted:	2020 - Fall
App Deadline	08/20/2020 10:00 AM
Application Method:	Through UVic Posting System
Posting Goes Live:	08/11/2020 02:30 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Environment and Climate Change Canada
Division	Canadian Centre for Climate Modelling and Analysis

JOB POSTING INFORMATION

Special Job Requirements

Other Job Details:

1. Priority will be given to Canadian citizens. Please indicate on your application if you are not a Canadian citizen (e.g., landed immigrant).
2. The Federal Government performs a security check on all employees, including students.
3. For more information about Environment and Climate Change Canada please visit our web site at https://www.canada.ca/en/environment-climate-change.html

Co-op Work Term	2020 - Fall
Position Type (Disclaimer: not all types available in all programs)	Regular Co-op, Full Time
Co-op Work term Duration	4 Months (12-18 weeks) Full Time (1 Work Term)
Job Title	Scientific Programmer, Co-op Student
Job Location	Victoria
Region	BC-Victoria (Capital Region)
Salary/Wage	$13.47 to $25.94 Depending on experience
Hours per Week	35
Number of Positions	1
Work Abroad	No

Job Description

Organization Profile:

Environment and Climate Change Canada (ECCC) is a department within the Federal Public Service. With a budget in excess of $600 million dollars and approximately 4,700 employees located in 100 communities across Canada, we work with thousands of partners in every province and territory and around the globe. ECCC's mandate is to preserve and enhance the quality of the natural environment, including water, air and soil quality; conserve Canada's renewable resources, including migratory birds and other non-domestic flora and fauna; conserve and protect Canada's water resources; carry out meteorology; enforce the rules made by the Canada - United States International Joint Commission relating to boundary waters; and coordinate environmental policies and programs for the federal government.

Our vision is to see a Canada where people make responsible decisions about the environment, and where the environment is thereby sustained for the benefit of present and future generations. Our mission is to make sustainable development a reality in

Canada by helping Canadians live and prosper in an environment that needs to be respected, protected and conserved. At Environment Canada we value our environment and its vital importance to the identity and well-being of present and future generations; the dedication and team-work of our people and integrity, trust and mutual respect in our working relationships; the contribution of the natural and social sciences to environmentally responsible decision making; the exercise, by all Canadians, of a shared responsibility for our environment; the contribution of our leadership to the achievement of sustainable development; and the provision of quality service to the public.

The Canadian Centre for Climate Modelling and Analysis (CCCma) is a section within the Climate Research Division (CRD) of ECCC located in Victoria, BC in the Bob Wright Centre at the University of Victoria. CCCma does research, development and model simulations of the earth climate system. CCCma has approximately 35 people and is comprised of scientists, technicians, computer systems analysts, and support staff.

Job Summary: Scientific Programmer

The *Scientific Programmer* job entails one main programming project to facilitate the evaluation of climate and chemical transport models with unique international datasets of atmospheric measurements as a part of an Arctic Monitoring and Assessment Programme (AMAP) project on short-lived climate forcers. The successful candidate will have shown they have experience with programming in python and working on Linux/Unix operating systems. Knowledge of atmospheric measurements and/or modelling is an asset, but not required. As is experience working with the processing and statistical analysis of large science datasets. The co-op student will have support from two research scientists, as well as additional support staff on site to consult on difficult problems. The working hours are flexible, and for at least the near term, work will be done remotely.

Job Responsibilities:

- Develop programs and scripts that will automate the comparison of climate and chemical transport model output (in netCDF format) with atmospheric measurements of various pollutants (e.g., black carbon, ozone, methane). The programs can be developed and run on the Canadian Meteorological Centre supercomputer.
- Time permitting, the job may involve some additional data analysis of atmospheric model output and measurements.

Qualifications

Required Skills:

- Experience with Linux/Unix operating system
- Experience with programming in R, python, IDL, NCL or equivalent
- Effectively communicate in English, both verbally and in writing
- Experience with the processing and statistical analysis of large science data sets is an asset
- Knowledge of atmospheric science is an asset

For relevant employers as defined by the BC Criminal Review Act: Will this position require a co-op student to complete a Criminal Records check?	No
Type of Student (multi-select)	Graduate Undergraduate
Minimum Academic Year Completed	2
Minimum Work terms Completed	0
Are there any restrictions that would hinder hiring of non-Canadian students with a valid work permit?	No

APPLICATION INFORMATION

Application Procedure	Through UVic Posting System
All Degrees and Disciplines	No