

Electrical Engineering Co-op Student - Spring 2015

Positions Available: 1

Status:	Full-time (37.5 hrs/wk) Co-Op	Job Location:	Edmonds A03
		City:	Lower Mainland

Your passion lies in making a difference. By moving beyond the expected, you help make our world a better place. These values we respect and seek out in employees. Together, we can build our community, foster conservation and deliver clean, reliable energy solutions for today, tomorrow and generations to come.

Being one of the largest electric utilities in Canada and North America, BC Hydro offers challenging opportunities throughout the province.

JOB DESCRIPTION

Duties:

The successful candidate will join the Power System Modelling & Analytics team as a Co-op student. The Power System Modelling & Analytics team has the responsibility to deliver power system models for performing engineering studies in support of all the transmission planning processes (growth capital planning, interconnection planning, station planning, performance planning, network integration transmission services and integrated resource planning) in BC Hydro's T&D business group.

- * Provide support and hands-on help to the power system modelling team in diverse tasks related to the data modelling, review, validation and quality assurance in the data models of transmission circuits, station equipment and generation facilities.
- * Provide support and hands-on help to the power system modelling team in setting up, testing, tuning, benchmarking and building steady state and dynamic models (base cases). This includes knowledge transfer and training on analytical methods and techniques implemented in specialized power systems application software used for the planning, design and operation of electrical power systems.
- * Develops specialized software utilities to improve the data checking, validation and correctness of data models related to transmission circuits and station equipment (generators, transformers, electrical drives, switchgear, etc.)
- * Develops and maintains effective professional relationship with customers in addressing service requests for performing specialized engineering studies. This includes understanding the requirements, defining the scope of the work, implementing, testing and delivering on time data models for the studies based on customer specifications.

Qualifications:

- * To qualify as a candidate, individuals must be enrolled in the Co-op Program and have yet to graduate from a recognized post-secondary institution in Canada.
- * 3rd or 4th year student pursuing academic degree in electrical engineering with emphasis on the field of power and energy.
- * General knowledge or experience in data modelling and performing specialized electrical power system studies such as: power flows, dynamic stability simulations, voltage stability, short-circuit calculations.
- * Experience with off-the-shelf software tools used in the power industry (e.g., PSS/E, PSLF, DSA Tools, PowerWorld, ASPEN, etc.)

- * Software development skills using specialized programming languages such as: FORTRAN, C++, C#, Python, Perl, Awk, HTML/XML, Java, etc., and industry standard databases (Oracle, SQL server).
- * Strong interpersonal, communication, technical writing and organizational skills and ability to work in a team environment is essential.
- * Preference will be given to candidates with previous co-op experience in the electricity industry and with a general knowledge of important topics related to the planning, design, operation and maintenance of electrical power systems.

ADDITIONAL INFORMATION

This position is affiliated with the Canadian Office and Professional Employees Union (COPE local 378) (www.cope378.ca).

- * As a condition of employment at BC Hydro, a background check clearance will be required.

At BC Hydro, our vision Powering B.C. with clean, reliable electricity for Generations is about working together to make a difference for the future of all British Columbians. To achieve this goal, we live by our six core values of Safety, Accountability, Teamwork, Integrity, Service and Ingenuity.

Safety – keep safety first in mind, heart and action
Accountability – take ownership, be decisive and move forward
Teamwork – One Hydro – make it happen together
Integrity – do the right thing
Service – proud of our service
Ingenuity – create resourceful solutions

If you share our values and are ready to join a great team, we'd love to hear from you!

BC Hydro is an equal opportunity employer.

HOW TO APPLY

Please be sure to update your Candidate Profile with your current resume and include copies of your certifications and/ or Trades Qualification, if applicable. This will ensure the Recruitment Partner has the necessary information to assess your application.

If you do not include this information, this could result in delays in assessing your application.

Click on the Apply button in order to complete the steps to apply for this job.

Date Posted: 2014-09-17

Closing Date: 2014-10-13