

**Source:** BC Hydro  
**Job Title:** Specialist Engineer - Transmission  
**Job Number:** BCH-R-8269-170516E1  
**Job Location:** Burnaby, British Columbia, Canada

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We're BC Hydro and we have a big job to do.

Keeping the lights on for over 4 million people across the province takes a lot of talented people doing many different jobs. From working deep in a generating station, atop a power pole, or behind a desk, whatever it is that makes you tick we offer challenging careers to help you reach your potential.

We're investing more than \$2 billion per year in major capital infrastructure projects to help meet the growing demand for safe, reliable power. We're upgrading transmission lines, building new substations, and investing in our hydroelectric generation facilities. We aim to provide meaningful and challenging work, opportunities for growth and a healthy work/life balance. We've been recognized for excellence and been named one of B.C.'s Top Employers and one of Canada's Best Diversity Employers for four years in a row.

It's our vision is to be the most trusted, innovative utility company in North America by being smart about power in all we do.

## **JOB DESCRIPTION**

### **Duties:**

Specialist Engineer responsible for electrical aspects of overhead transmission lines 69 kV to 500 kV. Responsible for electromagnetic and electrostatic field calculations, AC interference, analyzing switching transients, transmission line grounding design, electrical clearances, lightning protection, transmission line insulation, corona effects, development of transmission line design standards. Special emphasis is on engineering studies for electrical safety of workers and the public.

The candidate will be required to:

- Provide technical leadership; have specialist/extensive knowledge on electrical safety standards, policies, practices and procedures; be involved in developing and recommending standards as well as enforcing standards.
- Independently investigate, analyze and resolve a variety of challenging and unusual engineering problems.
- Deliver on tasks of high risk/impact/complexity with cross-functional, cross organizational scope.
- Sign and seal designs/reports, perform independent design checks and reviews of design work/ engineering studies completed by the team and internal and external consultants and contractors for BC Hydro. Ensure accuracy, achievement of required results, and adherence to accepted engineering practice and BC Hydro design standards and specifications.
- Engage in regular negotiations with internal/external clients and manage key relationships.
- Comply with BC Hydro Safety by Design process and PPM practices in design deliverables.
- Develop innovative engineering techniques, devise new approaches and apply existing criteria in novel ways.

- Work effectively in a group environment with team members as well as staff from other disciplines in a manner that is consistent with design objective.
- Develop and manage knowledge transfer to peers and junior staff to enhance internal knowledge base.
- Manage client relationships to ensure their needs are met and to work closely with stakeholders to drive innovation, find engineering solutions that add value, address competing interests at least life cycle cost, and to reach consensus.
- Develop and maintain effective professional relationships with internal and external colleagues in order to determine relative priorities, assess the impact of work on others and resolve issues of concern.

**Qualifications:**

- The successful candidate will be required to work from the BC Hydro Edmonds office and shall be a Professional Engineer registered with the Association of Professional Engineers and Geoscientists of BC (APEGBC), or be eligible for registration.
- Electrical engineering degree specializing in Power Systems.
- Preference will be given to candidates with a Ph.D. degree. However, candidates with M.A.Sc. degrees with appropriate working experience will be considered.
- Minimum of 15 years of related working experience in the electric power utility industry involving electrical safety aspects of high voltage transmission lines and other high voltage equipment.
- In depth technical knowledge of EMTP, grounding software such as CDEGS (ROW Pro) and WinIGS, COMSOL, AC interference analysis, applicable computer applications and applicable standards.
- Familiarity with standards, design codes and guides such as IEEE 80, IEEE 81, IEEE 1243, CSA C22.3 No. 1-10, CSA C22.3 No. 6.
- Exceptional communication (verbal and written) skills, particularly technical writing in English language.
- Strong influencing skills are an asset.

**ADDITIONAL INFORMATION**

- A condition of employment for this job is that you maintain your Driver's License: Class 5 In Good Standing.
- Candidates with fewer years of related experience may be considered at a Senior Engineer level.
- Please be advised that this role has been assessed as safety sensitive and pre-qualification alcohol and drug testing will be required as a pre-condition to employment.

**How to Apply**

Interested candidates should submit their applications online at [https://app.bchydro.com/careers/current\\_opp.html](https://app.bchydro.com/careers/current_opp.html) by **June 7<sup>th</sup>, 2017**.

[Click here](#) to access the job posting or visit the [BC Hydro "Current Opportunities" Careers page](#) to view and apply for jobs.

**You must use a supported browser, such as Firefox, Internet Explorer, Google Chrome or Safari. Your pop up blocker will also need to be disabled for the BC Hydro Careers site.**

On the BC Hydro Careers site, click on the Apply button in order to complete the steps to apply for this job. Please be sure to update your Candidate Profile with your current resume and include copies of your certifications, if applicable.

We're always looking for exceptional people to bring new ideas, fresh thinking and the motivation to help shape the electricity system in B.C. It's an exciting time to be a part of our team as we invest in our system and prepare to meet the challenges of tomorrow.

Our values guide our work. Want to join us?

We are safe.

We are here for our customers.

We are one team.

We act with integrity.

We respect our province.

We are forward thinking.

BC Hydro is an equal opportunity employer.