Source: **BC Hydro**
Job Title: **Electrical Engineer 1 (EIT) - Transmission Stations Design**
Job Location: **Burnaby, British Columbia, Canada**
Annual Salary: **$ 72,500.00 - 91,600.00**

Powered by water... and by people like you

Providing clean electricity to 4 million customers takes a diverse workforce and that's where you come in. We need your talent to help us build major projects to meet growing demand. To help our customers find clean energy solutions for their homes and businesses and to be ready to respond during storms and outages to keep our system reliable.

Working for BC Hydro is meaningful. And now, the stakes have been raised as we work towards a solution to climate change while safely providing clean, affordable electricity to our customers.

We offer a healthy work life balance, training opportunities and career progression. We're proud to be ranked as one of B.C.'s Top Employers and one of Canada's Best Diversity Employers. Join us as we build an even cleaner B.C.

JOB DESCRIPTION

Duties:

The Transmission Stations Engineering Division provides engineering services and expertise related to the design of electric utility substations. We provide engineering design for substation projects, including civil, electrical, fire protection, mechanical, and structural. The Division is also responsible for the specification, evaluation, and acquisition of major electrical equipment and construction support service. We provide engineering studies, standards, specifications, design solutions, construction documentation, and engineering oversight of work done by engineering service partners. We also provide technical support during procurement, construction, testing and commissioning.
We currently have an exciting opportunity for an Engineer 1 (EIT) in the Transmission Stations' Electrical Design team. This role requires demonstrated experience as an electrical engineer with the design of transmission utility substations with operating voltages from 12kV to 500kV and experience working with utility design solutions in an electric utility environment.

What you'll do
* As a professional engineer, engages in the engineering of electrical utility electrical systems and develops specialized expertise in design engineering.
* Analyze and resolve engineering problems with considerable independence.
* Manage small to medium sized projects and work packages, write specifications and standards, estimate capital costs, lead and mentor technical staff, and provide technical and site support during the installation and commissioning of electrical equipment.
* Review work of the project team and of consultants and contractors to ensure accuracy, achievement of required results and adherence to accepted engineering practice.
* Impart engineering knowledge and encourage the professional development of engineers.
* 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.

* Intermediate engineers are expected to work with limited supervision and avail themselves of suitable training and mentorship opportunities.

Qualifications:

* A degree in Electrical Engineering (preferably power engineering) recognized by Canadian universities.
* Eligible for registration as a Professional Engineer with Engineers and Geoscientists BC (EGBC) or registered as an Engineer-in-Training (EIT) in good standing with Engineers and Geoscientists of British Columbia (EGBC). Applicants with registration in other jurisdictions will be considered.
* Strong ability to communicate efficiently including verbal and technical writing in the English language, analytical, interpersonal communication and presentation skills.
* Strong organizational skills and ability to work collaboratively in a team environment.

The successful candidate shall demonstrate:

* Technical knowledge in electrical design of transmission utility substations with operating voltages from 12kV to 500kV.
* Technical knowledge in general layout, grounding, lightning, lighting, power cables and station service power supply system design.
* Technical knowledge in major electrical equipment such as transformers, capacitors, reactors, disconnect switches and circuit breakers, FACTS devices such as SVC and STATCOM, and energy storage technologies such as BESS and Hydrogen.
* Technical knowledge in the electrical, mechanical, civil, P&C and operating requirements of components used to build such systems.
* Knowledge in power system planning, system operation, protection & control engineering, and project management.
* Ability to investigate, analyze and solve a variety of engineering problems.
* Ability to provide technical directions to junior engineers; to manage design tasks including scope, schedule and cost.
* Ability to manage client relationships to ensure their needs are met and to work closely with stakeholders to drive innovation, find engineering solutions that add value and to reach consensus.
* Experience in project management including estimating, cost control and project administration.
* Demonstrated effectiveness in work leadership and providing technical direction to Engineers in Training and technical support is an asset.
* Experience with substations, BC Hydro standards, and other electrical standards including both national (CSA, ULC) and international (IEEE, IEC, etc.) is an asset.
* Experience with design software for grounding studies, lightning studies, and bus design is an asset.
* Experience with outdoor construction and assembly of steel work is an asset.
* CAD skills, particularly with 3-D modeling, using Autodesk products such as AutoCAD, Inventor and Vault is an asset.
* Interest and ability to learn and develop technical expertise through on the job training and development.

ADDITIONAL INFORMATION

- A comprehensive benefits package
- A minimum of 15 paid vacation days
- A lifetime pension

- Flexible work model, depending on your role type
- Training and development courses
For more information on the benefits we offer, visit bchydro.com/benefits.

What else you should know
Before you apply, please confirm you meet BC Hydro's time in role requirement. M&P employees must meet the time in role requirement specified in their most recent offer letter. For MoveUP and IBEW employees, the current time in role as outlined in the Collective Agreements will apply.
*This is a Full Time Regular Position.
* This is a hybrid position, however the successful candidate will be required to work from the office minimum for a prespecified number of days, details to be discussed in the recruitment process.
* Applicants who do not meet the full qualifications or those with lesser work experience may be considered for a lower level position.
* Will be required to occasionally travel to different areas of the province.
* A condition of employment for this job is that you maintain your Class 5 Driver's License: In good standing.
* A condition of employment for this job is that you maintain the following: EGBC: Engineers & GeoScientists BC = In Good Standing
* 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.
Don't forget to update your Candidate Profile with your current resume and copies of your certifications. If applicable, include your Trades Qualification. This will ensure we have all the necessary information to assess your application without any delays.

How to Apply

Interested candidates should submit their applications online at https://app.bchydro.com/careers/current_opp.html by **Nov 09, 2025.**

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 include everyone.
We act with integrity and respect.

We are forward thinking.

BC Hydro is an equal opportunity employer.

We include everyone. We welcome applications from anyone, including members of visible minorities, women, Indigenous peoples, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities.

We are also happy to provide reasonable accommodations throughout the selection process and while working at BC Hydro. If you require support applying online because you are a person with a disability, please contact us at Recruitmenthelp@BCHydro.com

Flexible work model role definitions
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Our four role types identify the degree of flexibility an employee could have to work from home based on the type of work they do. The flexibility for an individual job is up to the manager for each position and the operational requirements. Employees also have the right to work full-time from the office if they prefer. All of our roles require at least some in-person time.

IBEW/Field – No option to work from home
Resident – Works primarily (4+ days per week) in the office.
Hybrid – May be able to work from home up to 3 days per week.
Remote – Works from home 4+ days per week