

**Job Title:** Substation Engineer (Experienced)

**Department:** Electrical Engineering - Energy - Substations, Transmission and Distribution

**Job Category:** Engineering

**Status:** Regular employee

**City:** Vancouver

**Reference Number:** 2011-600-0952

**Role:**

BBA is a Canadian consulting engineering firm offering services with a high level of expertise, notably in the Energy and Mining & Metals sectors. Although multi-disciplinary, our roots are electrical engineering. BBA's market position is strong, and we need to add talent to maintain it.

We are seeking a seasoned engineer with a good level of knowledge and relevant technical experience in medium and high-voltage electrical substation design to join our team.

We have over 700 employees across Canada with offices in British Columbia, Newfoundland, Ontario and Quebec. The current opening is for the Vancouver office that is located downtown. In 2010 and 2011, BBA was one of Aon Hewitt's best employers in Canada, and is among Canada's 50 Best Managed Companies. For more information visit us at [www.bba.ca](http://www.bba.ca).

**Description:**

Your role will be to participate in proposals and in the management and execution of engineering projects involving medium and high-voltage electrical installations. You will participate in the definition and execution of projects at our client sites. You may be called on to carry out pre-feasibility and feasibility studies as well as detail engineering. You will also participate in the development of master, modernization, and refurbishment plans for our clients with existing installations.

**Skills:**

Our Vancouver office is small and growing, so a successful candidate should be:

- Client-oriented;
- Proactive, take initiative, and have creative and innovative problem-solving skills;
- Able to deal with uncertainty and ambiguity;
- Adaptable to various environments and situations;
- Comfortable working independently and in a team;
- Responsible for and interested in career growth and development;
- Strongly interested in building a team recognized both externally and within the organization.

Some of the activities required in this role are to:

- Participate in and manage the preparation of proposals;
- Conduct detailed design of substations including single line diagrams, switchyard layout, detail and elevations, grounding grids, cable and conduit routing, calculation notes, etc.;
- Participate in and manage the execution of projects involving medium and high-voltage substations, for industrial clients, public utilities and energy producers;
- Determine costs and material quantities of designs;
- Carry out project management (costs, deadlines);
- Provide direction and guidance to the civil Engineering Department to secure project civil/structural requirements;
- Write technical equipment and construction specifications;
- Do on site construction coordination and supervision;
- Transfer technical knowledge to young engineers, as well as provide training and mentoring to help us prepare the next generation of technical experts.

**Requirements:**

We are seeking candidates with the following knowledge and experience:

- Bachelor's in Electrical Engineering, or another relevant field, member of APEGBC;
- 5 - 10 years of professional experience, primarily in medium and high-voltage electrical substation design;
- Planning skills: identify and define tasks and responsibilities, timetables, and level of expertise for each stage of a project;
- Visual/spatial skills: understand spatial orientation of equipment (above and underground);
- Organization skills: mobilize required resources (human/financial/material) in order to meet deadlines and accomplish objectives;
- Ability to motivate others: maintain an inclusive environment and foster the participation of all;
- Advanced knowledge of medium and high-voltage equipment, safety issues for electrical installations, and the Canadian Electrical Code;
- Field construction or commissioning experience is an asset;
- Strong expertise with MS Office applications, AutoCAD, and MicroStation;
- Experience using ETAP is an asset;
- Excellent communication skills with high competency in English (both verbal and written);
- Valid driver's license from a Canadian province and the ability to travel and to do site work;
- Some knowledge of written French would be an advantage but not required.

BBA is committed to respecting fair hiring practices for all candidates and employment equity for all employees.