

Highlights of the job

We are hiring a full time, permanent **Engineer, Distribution Planning** position working out of Edmonton, AB. This position reports to, and works closely with, the Distribution System Planning Manager.

We are looking for a knowledgeable and experienced **Engineer** to join the System Planning team in EPCOR's Electricity Operations. As the Distribution Planning Engineer, you plan our electric distribution system. You use your expertise to identify system deficiencies, develop solutions to meet Edmonton's increasing load growth and adapt to grid transformation. You have a keen understanding of data and evaluate technical, economic and societal considerations as you propose solutions. Additionally, you promote safety, teamwork and excellence in your day-to-day work. You are a relationship builder and strong communicator, which enables you to deliver business objectives.

This position may be eligible for EPCOR's hybrid work program.

What you'd be responsible for

- Identifying technical solutions that are feasible and align with EPCOR Electricity Operations' Long Term Plan.
- Ensuring an understanding of System Planning's strategy and effectively building relationships within EPCOR and the electric industry.
- Working with Engineering and Operations groups to ensure the safe, efficient operation of the system and its optimal performance to meet customers' needs for reliable electricity.
- Supporting the development of accurate and up to date power flow models of EPCOR's electric distribution system; the development of the long term load forecast for EPCOR points of delivery (substations) and distribution circuits; and, development of distribution system expansion plans, including the 10 year distribution system plan, in accordance with prevailing corporate strategies and distribution planning policies.
- Performing contingency analyses to ensure that the system configuration is adequate for acceptable performance.
- Conducting engineering studies to identify acceptable operating modes that will maintain all equipment within their operating limits.
- Planning for the interconnection of distributed generation and other distributed energy resources, in accordance with applicable Alberta Reliability Standards, ISO Rules and EPCOR's technical guidelines.
- Acting as a consultant to internal stakeholders and providing Distribution Planning insights.
- Providing input into the annual budgeting process for projects within assigned portfolio.
- Preparing business cases to support regulatory filings.

What's required to be successful

- A Bachelor of Science in Electrical Engineering or related discipline.
- 5+ years of experience in the planning of electric distribution systems.
- Professional Engineer registered or eligible for registration as a P.Eng. with APEGA in Alberta.
- Broad knowledge and understanding of electric power systems.
- Experience planning, modelling and designing secondary distribution network systems is considered an asset.
- Understanding of regulatory concepts as related to distribution system planning.
- Excellent analytical skills and ability to resolve complex technical issues.
- Demonstrated ability to apply distribution system planning concepts.
- Excellent knowledge of CYMDIST and other simulation software for load flow, power quality and short circuit analysis.
- Ability to work with large data sets.
- Exposure to Python, AZURE, DataBricks, Snowflake or similar data warehousing tools is considered an asset.
- Familiarity with Microsoft Power BI or equivalent tools for building dashboards and reports.
- Conversant in the use of Microstation CAD and GeoEngineering.
- Proficient in the use of Microsoft Office and Visual Basic Applications.
- Familiarity with SCADA, Outage Management Systems (OMS), Distribution Management System (DMS), Advanced Metering Infrastructure (AMI) and Distribution Automation (DA).

As our ideal candidate, you take initiative in your work and provide solutions to complex issues. You develop and maintain good working relationships with internal and external stakeholders, which include the City of Edmonton's Integrated Infrastructure Services, the Alberta Electric System Operator, the Alberta Utilities Commission and industry working groups. You find better, smarter ways to complete work and support the further development of distribution design/planning philosophies, guidelines, practices, processes and criteria to meet the needs of a changing industry, changing system conditions and grid transformation. You demonstrate project management and leadership skills while working in a team environment.

Other important facts about this job

Jurisdiction: Professional

Hours of work: 80 hours biweekly

To apply, please visit: <https://www.epcor.com/about/careers/Pages/job-listing.aspx?jobId=ofrOqfwE>

Application deadline: February 11, 2024

Please note the following information:

- A requirement of working for EPCOR is that you are at least 18 years of age, successfully attained a high school diploma (GED, or equivalent level of secondary education) and legally entitled to work in Canada. (A copy of a valid work permit may be required.)
- If you are considered for the position, clearance on all applicable background checks (which may include criminal, identity, educational, and/or credit) and professional reference checks is required. Some EPCOR positions require an enhanced level of background assessment, which is dictated by law. These positions require advanced criminal record checks that must also be conducted from time to time after commencement of employment.
- A technical/practical assessment may be administered during the selection process and this exercise will be used as a part of the selection criterion.
- To meet the physical demands required of some positions, candidates must be in good physical condition and willing to work in all weather conditions. Clearance on pre-placement medical and drug and alcohol testing may be required.