

Careers at the AESO

As an independent system operator, the AESO leads the safe, reliable and economic planning and operation of Alberta's interconnected power system. The AESO also facilitates Alberta's fair, efficient and openly competitive wholesale electricity market, which in 2010 had about 175 participants and approximately \$5 billion in annual energy transactions.

Power System Studies Senior Engineer-Technical Resource Team

Position Summary

The role and responsibilities require working knowledge and experience on short term power system operational planning and longer term transmission planning to ensure transmission system reliability.

The candidate will be actively involved in performing transmission studies and will be assigned to various projects' activities being accountable for scoping, performing and reviewing power system technical studies for the development and operation of the transmission system including integration of new customer facilities into Alberta Integrated Electrical System. Accountabilities include ensuring that appropriate studies are scoped, performed and completed to define the technical component of system development requirements and system operations. The candidate will take an independent lead role to ensure a common understanding of the transmission planning reliability criteria, study conclusions and recommendation of study results between AESO, the TFOs and other facility owners.

Accountabilities and Responsibilities

- Within a project team, independently scope, perform and review power system studies including power flow analysis, voltage and transient stability studies, short circuit fault calculations and other assessments or necessary studies ensuring system reliability criteria is met.
- Exhibit the ability to work in a team environment and collaborate with various stakeholders to successfully implement the study recommendations and engineering standards.
- Demonstrate the analytical ability to scope engineering power system studies, assessment of the results, trouble shooting and concluding the work.

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- Ensure the development of operational recommendations and Remedial Action Schemes to enable reliable system operation until needed transmission development is in place.
- Provide mentoring and training to other team members on technical studies, and power system operations to enhance the overall team knowledge.
- Prepare high quality, well written engineering study reports for system and customer connection projects.

Education

- Bachelor degree in Electrical Engineering; postgraduate degree in the domain of power system is an asset.
- Eligible for registration, or already registered with APEGGA

Knowledge, Skills, Abilities and Experience Required

- Proven ability to perform Power System analysis - Steady State (Load Flow, PV, VQ, SC) and Dynamic.
- Proven analytical and problem solving skills.
- Registered Professional Engineer with minimum of 7 to 10 years experience in power systems planning.
- Well developed verbal and written communication skills; this position is ideally suited to an individual who has demonstrated the ability to build strong relationships with various stakeholders involved that can be leverage into accomplishing successful results.
- Experience in working in teams and proven skills in providing customer support and resolving conflicts.
- Experience in performing and leading technical studies
- Experience in leading technical aspects of power system projects is an asset.

If you are interested in the above position, please email your resume in confidence to careers@aeso.ca by February 13th, 2012 in order to be considered.

The AESO is unable to accept unsolicited agency resumes. Any resumes submitted become the sole property of the Alberta Electric System Operator.

The AESO would like to thank all applicants for their interest; however, only those candidates selected for interviews will be contacted.

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