

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.

Senior Engineer, Loss Factors

Position Summary

The position provides engineering support to the loss factor process by:

- Incorporating the generic stacking order (GSO), developing, checking, and supporting the loss factor base cases, preparing the volumes to be used in the cases, and Providing preliminary loss factors for new units
- Validation of the calibration factor calculation quarterly
- Prepares and implements changes to the overall processes including DOE/regulation changes relevant to loss cost recovery, maintenance and enhancement of the loss factor calculation process

The position requires an application of advanced engineering knowledge in loss factor theory, in overall system operations, understanding of the tariff, financial outcomes of the application of engineering knowledge, and accountability to coordinate difficult assignments.

Accountabilities and Responsibilities

- Development of next year's and fifth year's Generic stacking Order.
- Preparation and authentication of next year's and fifth year's loss factor base cases.
- Calculation of next year's [binding] and fifth year's loss factors.
- Calculation of preliminary loss factors and of same year final loss factors
- Analyzing loss factors and the cases for providing rationale of changes in annual loss factors and providing support for recalculation
- Provide support, documentation, and expertise on changes to the methodologies employed
- Analyzing different base case scenarios and their impact on loss factor calculation.
- Confirmation of the quarterly calibration factor through an independent process.
- Provide mentorship to junior staff

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Education

- Minimum B.Sc. In Electrical Engineering
- Strong background in operation and economics of deregulated power system networks and engineering mathematics
- Additional post graduate experience is an asset
- Appropriate certification for professional designations

Knowledge, Skills, Abilities and Experience Required

- 7 – 10 years' experience in power systems operations
- In-depth understanding of load flow theories, application and studies
- Extensive understanding of power system analysis techniques, power flow study execution (for example - PTI PSS/E, GE PSLF, etc) utilizing power system analysis software
- Knowledge in programming languages (Fortran, Matlab etc.), data tools (PI), as well as in MS Office, spreadsheets, and commercial database tools, load, loss, and operational forecasting

If you are interested in the above position, please email your resume in confidence to careers@aeso.ca by January 29, 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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