

# EMPOWERING BERMUDA'S PROGRESS

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## Transmission and Distribution Planning Engineer

Bermuda Electric Light Company Limited (BELCO) invites applications from suitably qualified and experienced individuals for the position Transmission and Distribution Planning Engineer. The Transmission and Distribution Planning Engineer primarily coordinates the engineering work in the Grid Operations group to optimize and maintain the suitability, reliability and integrity of the BELCO electrical network. Using appropriate Power System modeling tools and theory, the engineer performs simulations and planning studies on the BELCO T&D network and utilizes the data to make suitable recommendations for capital program submissions.

### Key Job Responsibilities:

- Study the stability (voltage/transient stability), transmission service/interconnection requests, generation interconnections, transmission equipment retirements/additions, frequency and voltage limits
- Create and maintain databases for power flow model, storing transmission network equipment and element ratings
- Conduct various system studies (transmission and distribution)
- Perform studies to determine protection system requirements for the stability and operations of the power system
- Manage all the engineering aspects for projects of moderate scope or detailed phases of major project efforts
- Perform detailed engineering calculations/analysis to determine network construction specifications such as; cable type, size, equipment rating, etc.
- Develop the required plans, and estimate costs for transmission and distribution system works
- Estimate labor, material, construction costs and define specifications for purchase of materials and equipment

### Key Job Requirements:

- Bachelor's Degree in Electrical Engineering plus ten (10) or more years of engineering experience or a Master's Degree in Engineering with five (5) or more years engineering experience
- Proven experience in most types of system modeling network planning and study applications
- Extensive experience with electrical power systems, performing system stability studies (steady-state, dynamic, etc.) load flow and fault-level studies using suitable engineering tools
- Experience in the use of various system modeling applications (PSS/E, ETAP, Aspen, CYME) designed for transmission network planning and system operations modelling environments
- Strong analytical and problem solving skills
- Strong project and time management skills
- Excellent written and verbal communication skills, with ability to communicate with all levels of the organization, regulatory agencies and/or contractors
- Strong computer skills. In addition to Microsoft Suite, be able to use Design Cad package such as AutoCad

If your experience matches this role please forward your cover letter and resume to:

Human Resources  
P.O. BOX HM 1026  
Hamilton, HM DX  
E-mail: [recruitment@belco.bm](mailto:recruitment@belco.bm)

**Closing Date:** Tuesday, February 14, 2017

*BELCO is a non-smoking facility and is a drug and alcohol-free environment. The Company requires all successful applicants to pass a pre-employment drug and alcohol screening prior to an offer of employment.*



BELCO is committed to Equal Employment Opportunities