



Job Description

Title: Senior Planning and Applications Engineer

Reports to: Network Planning Lead

Department: Network Solutions_DVAR

Summary - Job Responsibilities – Activities:

Support Business Development, Sales and Engineering of AMSC Products and Solutions. Be an industry advocate for AMSC technologies and solutions.

- Performs power systems analyses pertaining to transmission and distribution system expansion, voltage stability, reliability and power quality and derives technical solution options to meet customers' requirements.
- Performs detailed analysis of industrial power quality problems and designs/recommends appropriate solutions.
- Uses network analysis software to perform detailed load flow, transient stability, electromagnetic transient studies in assessing system requirements and appropriate solution options (using either current or innovative new technologies).
- Develops, maintains and provides support for software models for all products.
- Performs or supports insulation coordination, arc flash and transient overvoltage studies.
- Actively participates in the existing product development and new product market needs analysis. Undertakes detailed application and design studies for AMSC's products including FACTS systems, power electronic converters, energy storage solutions, fault current limiters and high capacity superconductor cable systems.
- Actively works to build relationships with utility planners and engineers, and consultants in the industry.
- Assists in development of competitive proposals that improves transmission and distribution system capacity while reducing transmission system costs. Proposals need to include technical as well as commercial analysis.
- Performs appropriate economic evaluations of transmission and distribution system expansion plans to accompany technical evaluations of recommended alternatives.
- Maintains a thorough knowledge of the current developments in the overall energy sector, particularly in the generation and transmission areas, in regards to legislative trends and requirements and how they can affect AMSC's business goals.
- Prepares and delivers technical papers and presentations for trade shows and technical conferences.

Education - Experience:

- BS in Electrical Engineering (MS preferred) with 5-10 years of experience in the power sector (emphasis in power systems analysis, specifications, design and/or operation). Prior power utility, transmission and distribution planning experience preferred.
- Theoretical background on power systems analysis, specifically load flow, transient stability and electromagnetic transients.

Required Skills, Competencies, Authorities and Training Needs:

- Demonstrated knowledge of network analysis software to perform load flow, stability, reliability, and power quality analysis using a major network analysis software such as Siemens PSS@E or GE PSLF. Working knowledge of any additional software such as DiGSILENT PowerFactory, PSCAD, ATP-EMTP, EMTP-RV, SKM PowerTools, Powertech's DSATools, and PowerWorld preferred.
- Understanding of power electronic devices, controls and systems, FACTS devices and their applications in utility and industrial environment.
- Ability to develop and/or modify/adapt loadflow, stability, and EMTP software models for AMSC's products.



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- Proficiency in a programming language (Fortran and/or Python preferred).
 - Comfortable working directly with customers to generate interest in AMSC's products.
 - Familiarity with equipment standards and specifications.
 - Capable of collaborating and cultivating customer relationships.
 - Excellent written and verbal communication skills. Job involves writing and presenting technical papers.
 - Comfortable teaching technical workshops on FACTS technology and their applications in power systems.
 - Up to 20% travel (local and International) may be required.
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AMSC is an EEO M/F/D/V

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