Substation Project Engineer

ABB Inc. in Raleigh, North Carolina has an amazing opportunity for you, if you have the knowledge and experience as an Electrical Engineer. ABB Inc. FACTS group in our Power Systems (PS) division has this opening. ABB Inc. seeks a project engineer (aka: Lead Engineer, Electro-Mechanical Engineer, or Project/Lead Engineer) who will be responsible for the engineering works coordination associated to the design and construction stages of Flexible AC Transmission systems (FACTS) stations and the auxiliary systems that support them. The ideal candidate will hold an engineering degree and technical experience to perform necessary responsibilities and to contribute to the successful execution of Static Var Compensators (SVCs) and Series Capacitors (SCs) tenders and projects, customer satisfaction, cost forecasting and control, scheduling, quality and performance. This role will also have the opportunity to conduct complex systems analysis and function as a technical consultant to customers in the exploration and presentation of solutions to the market.

Tasks

Responsibilities:

- The main purpose of this position is to plan and lead the engineering requirements of the FACTS projects that are designed and executed in the Raleigh based FACTS local execution center.
- Manage and lead engineering activities, both in-house and outsourced, during the proposal, design and construction stages of substation projects with strict adherence to the project contract; ensuring a common understanding of goals, schedule, contract deliverables, etc.
- Support proposal efforts by introducing and promoting innovation, cost saving ideas, and value-added solutions to the overall system design concept.
- Providing expertise and support to the proposal and project teams in validating sub-contractor bids, and in negotiating sub-contracts for electrical substation and switchyard projects
- Perform technical, cost savings, and constructability reviews of design packages from internal engineering, outsourced sub-contractor engineering and equipment factories:
- Analyze sub-contractor bid responses for inconsistencies, oversights and mistakes
- Lead sub-contractor bid reviews to resolves bid response inconsistencies, oversights and mistakes
- Provide cost recommendations to the proposal team based on the bid review analysis
- Supervise, plan and actively participate in the Factory Acceptance Test and Site Acceptance Test with customer and/or other ABB units.
- Notify the Engineering Manager and the Project Managers of any difficulties encountered in the engineering and design
that may adversely impact safety, reliability, quality, cost, or schedule of the ABB project deliverables, and provide recommendations for solutions.

- Prepare, update and support the project execution engineering activities in the schedule with emphasis on; on-time delivery, quality of deliverables and Project costs.
- Lead the development of single-line diagrams, layout drawings, grounding systems, station service and BOMs for substation design packages.
- Utilize knowledge of the National Electrical Safety Code and ANSI/IEEE standards to ensure that designs comply with the appropriate substation design requirements.
- Create and approve purchase orders for contract materials and services and approve quality assurance and control requirements. Develop status reports and modify plans or schedules, as necessary, to ensure contract parameters are met.
- Identify and pursue the resolution of problem areas likely to hinder the progress of work or payment of work completed to optimize the successful completion of and payment for project work.
- Provide substation project management support, including managing engineering scope according to technical contracts, equipment procurement, developing change orders, and maintaining project schedules
- Provide construction, installation & commissioning support

Requirements

QUALIFICATIONS

Basic Qualifications (Must have)
1. Bachelor of Science degree in Electrical or Mechanical Engineering required.
2. Must have with three (3) to seven (7) years of technical experience on high voltage substation Engineering, Procurement & Construction (EPC) projects
3. Travel is required; up to 30% both domestic and international.
4. Basic knowledge of applicable ANSI/IEEE standards is required.

Preferred Qualifications (Nice to have)
- Professional Engineering certification preferred.
- Must be able to communicate complex technical subjects to groups of technicians and/or engineers. This position requires the ability to clearly communicate with ABB and Customer personnel in order to success-fully collaborate, coordinate, and resolve project related activities and issues. Problems involve recognizing situations and applying appropriate concepts to solve problems that are usually short-term in nature.
- Negotiation skills in interaction with internal and external customers
- Strong leadership and interpersonal skills, including good conversation skills and normal tact and courtesy.
- Ability to manage multiple projects and a desire to deliver to customers a quality, completed project that meets or exceeds the customer’s expectations.
- Experience with CAD software such as Autocad, Microstation and/or SolidWorks.
- An initial training period in Sweden might be required.

Additional information

ABB is an Equal Opportunity and Affirmative Action Employer encouraging diversity in the workplace. All qualified applicants will receive consideration for employment without regard to their race, creed, color, ancestry, religion, sex, national origin, citizen status, age, sexual orientation, disability, marital status, family medical leave status, or protected veterans status. For more information regarding your Equal Employment Opportunity (EEO) rights as an applicant, please visit the following websites: http://www1.eeoc.gov/employers/upload/eeoc_self_print_poster.pdf or http://www1.eeoc.gov/employers/poster.cfm.
As an Affirmative Action Employer, applicants may request to review the Affirmative Action Plan of a particular ABB facility between the hours of 9:00 A.M. - 5:00 P.M. EST Monday through Friday by contacting an ABB HR Representative at 1-888-694-7762.

Protected veterans and qualified individuals with a disability may request a reasonable accommodation if you are unable or limited in your ability to use or access ABB's career site as a result of your disability. You may request reasonable accommodations by calling an ABB HR Representative at 1-888-694-7762 or by sending an email to myhrsmart@us.abb.com.

Thanks for your interest in ABB!

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<tr>
<td>Job Function</td>
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<tr>
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ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 150,000 people.