



Title of Position
Senior Controls/Automation Engineer – SCAE – WA – 18-10

Team/Department
Engineering Department

Reports To
Assistant Director of Engineering

FLSA Status
Exempt

Position Summary:

The Senior Controls/Automation Engineer provides engineering, process and talent leadership to engineers, designers, and project managers in support of corporate values and client objectives. The position delivers project-leading technical value for clients and team members, based on professional knowledge and abilities. This work requires the application of standard engineering techniques, procedures, and criteria. Demonstration of judgement is required to apply criteria, comply with procedures and use/enhance techniques. A Senior Controls/Automation Engineer may manage large technical and relationship risks facing the engineering department and works closely with Principal Controls/Automation Engineers and the Assistant Director of Engineering to anticipate and address potential risks to engineering before they occur. A Senior Controls/Automation Engineer may also support Client Management to ensure repeat business and foster new opportunities

Essential Responsibilities:

Technical

- Applies a thorough knowledge of current principles and practices of controls engineering
- Performs and coordinates control system network design, I/O loading and partitioning, automation equipment selection, specification and procurement; process control logic functional narratives, HMI graphic development SCADA design and automation studies, development of logic drawings , location plan drawings, cable schedules, interconnection drawings, schematics, etc.
- Reads and interprets control system, construction and installation drawings
- Develops equipment specifications and construction specifications
- Provides recommendations for change management within active projects
- Independently evaluates, selects, and applies standard techniques, procedures, and criteria
- Directs and performs fieldwork during project lifecycle (data collection through start-up and commissioning of controls / automation equipment)
- Designs a complete project system, component, or process and reviews for conformity and quality assurance
- Assists upper level engineering and management as a technical specialist
- Oversees efforts at construction/plant sites and fabrication shops during design phase on an as required basis

Leadership / H2E & Project Management

- Assigns tasks to and directs engineers, technicians, administrative staff, and supports principal engineers
- Manages project team activities, communicates changes and progress. Coordinates to complete projects within scope, on time and on budget with safety and quality requirements met
- Manages Client expectations during project execution, within contract requirements, and manages scope creep
- Prepares scopes, budgets, and schedules for assignments. Develops and maintains project deliverables lists for all active projects
- Tracks progress of project deliverables to ensure contract requirements are met per schedule
- Assists with proposals to provide professional services or obtain funding for engineering projects or programs
- Actively participates, presents, and guides project meetings and specific aspects of engineering assignments
- Develops new techniques and/or improves processes, materials, or products
- Works on a major project or several projects of moderate scope with complex features
- Conducts experiments, analyzes and interprets data to formulate and solve problems
- Demonstrates best practices as the project technical lead while mentoring engineering and design personnel

Communications

- Represents the organization in communications and documentation pertaining to broad aspects of engineering assignments
- Possesses advanced oral and written communication skills
- Regularly interacts with clients, customers, officials, contractors, and others
- Initiates and maintains contact with key engineers and clients/customers or other organizations and companies and is skilled in negotiation of critical issues
- Leads project meetings and makes presentations

Ownership / Growth / Direction

- Makes authoritative decisions and recommendations, with far-reaching impact on the organization
- Continual self-improvement in latest technology and equipment in the industry
- Models and inspires continuous improvement in others
- Continual self-improvement in interpersonal skills and effective oral and written communications
- Ability to resolve project related technical issues to move the team and the company forward

Minimum Qualifications:

- Minimum of five years of experience with a Consulting Engineering firm or Industrial/Utility environment
- Bachelor's Degree in engineering from an ABET accredited program
- EIT certification required
- PE licensed preferred or ability to obtain PE within one year of hire
- Proven knowledge in PLC concepts and the application of these concepts to meet various process applications
- Proven knowledge of various SCADA platforms (i.e. RSVIEW, WonderWare, Inductive Automation, etc.)
- Proven knowledge of various PLC platforms (i.e. Rockwell, Allen Bradley, GE, Schneider, Siemens)
- Working knowledge of construction techniques
- Ability to effectively obtain, develop and communicate technical information to both clients and customers
- Ability to work efficiently and effectively when managing multiple tasks
- Must be self-motivated, results oriented, and be flexible to work well under tight schedules in a fast-paced team environment
- Efficient in the use of MS Office software suite: Outlook, Excel, Word, OneNote, and Access