

Senior DeltaV Controls Engineer

Client Summary:

- The client is a 100% Employee-Owned Company our people are passionate about solving your unique engineering challenges, and with the support of industry experts behind them, they can successfully execute projects of any size while meeting your requirements of scope, schedule, and budget.
- They have been providing customers with engineering, system integration and fabrication solutions for more than 40 years.
- With offices throughout the US and over 500 professionals on their staff, they are one of the largest and most well-established engineering companies in the United States, and they have successfully finished numerous projects for our US clients in many parts of the world.
- This client ranks on Inc. 5000's Fastest-Growing Private Companies list and is a GSA Schedule holder with the Federal Government for professional engineering services and manufacturing.

Location: Raleigh, NC., (client relocation assistance not provided)

Job Type: Full-Time Onsite

Position Summary:

- Our client has a Senior DeltaV Engineer opportunity in their Raleigh, NC office.
- This person will lead the design, implementation, and project management of large-scale capital automation projects within the Life Sciences industry.
- This role requires proficiency with Emerson DeltaV systems and a strong technical background in designing and delivering cGMP-compliant automation solutions.
- The ideal candidate will have a proven track record of managing complete project life cycles, ensuring compliance with industry regulations, and collaborating with cross-functional teams to optimize biopharmaceutical and medical device manufacturing processes.

Responsibilities:

- All areas of responsibility listed below are essential to the satisfactory performance of this position, with reasonable accommodation, if necessary.
- Design and implement DeltaV control systems for complex Life Sciences capital projects
- Develop and manage project schedules, budgets, and resources, ensuring on-time and within-budget project execution
- Lead system architecture development and control strategies to enhance manufacturing efficiency
- Design batch sequencing, phase logic, and recipe structures to optimize production efficiency and regulatory compliance
- Develop DeltaV graphics using DeltaV Live and DeltaV Operate in alignment with ISA-101 HMI guidelines

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- Utilize a class-based approach in overall design to maximize scalability and standardization across projects
- Develop electrical designs, including power distribution, panel layouts, and grounding strategies for automation systems
- Specify and procure instrumentation and hardware components
- Design and implement industrial networking solutions, including Ethernet/IP, Modbus TCP/IP, Profibus, and Foundation Fieldbus
- Integrate 3rd party equipment with DeltaV systems using protocols such as OPC UA, Ethernet/IP, and Modbus
- Define computing infrastructure requirements, including server architecture, virtualization, cybersecurity, and redundancy planning
- Design, plan, and specify DeltaV system licensing based on user requirements and project scope to ensure cost-effective and scalable solutions
- Oversee the full project lifecycle, from requirements gathering to commissioning and validation
- Ensure project deliveries and execution methodology compliance with GAMP5, cGMP, 21 CFR Part 11, and industry best practices
- Develop acceptance protocols and manage the execution of Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT) to validate system performance
- Mentor and provide technical leadership to junior engineers and cross-disciplinary teams
- Coordinate with clients, stakeholders, and regulatory bodies to ensure project success
- Implement advanced automation strategies, including ISA-88 batch processing, historian integration, and alarm management
- Troubleshoot complex automation challenges and drive continuous improvements in system performance
- Travel up to 25% for on-site support, commissioning, and client engagement

Qualifications:

- Professional degree in Electrical Engineering, Control Systems Engineering, Chemical Engineering, or a related field
- 8-15 years of experience in automation and control system engineering, with a strong focus on Life Sciences projects
- 8-15 years of hands-on experience with Emerson DeltaV systems, focusing on system design and project execution
- Proficiency in DeltaV Live and DeltaV Operate, including experience designing high-performance HMIs and operator interfaces
- Expertise in ISA-101 HMI design principles and high-performance graphic design strategies
- Strong experience in class-based configuration and design
- Expertise in ISA-88 batch processing, historian solutions, and advanced control strategies
- Proven experience managing large-scale capital projects in the Life Sciences industry
- Strong knowledge of automation protocols (HART, Foundation Fieldbus, Profibus, Modbus TCP/IP, Ethernet/IP, OPC UA, IO-Link)
- Deep understanding of industrial networking for communication between controllers, servers, and HMIs

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- Strong knowledge of cGMP, GAMP5, and regulatory compliance for biopharmaceutical manufacturing
- Experience integrating electrical and process control systems
- Strong leadership, organizational, and communication skills for cross-functional collaboration
- Experience specifying and designing electrical components, including MCCs, VFDs, control panels, and power distribution systems
- Knowledge of server infrastructure and virtualization technologies for robust DeltaV system deployment
- Extensive experience designing and implementing batch control systems within regulated Life Sciences environments
- Experience in OEM system integration using OPC UA, Ethernet/IP, and other industrial communication protocols
- Ability to plan, specify, and manage DeltaV system licensing to optimize project implementation
- Knowledge of Rockwell Automation, Inductive Automation Ignition, Siemens PCS7, or other DCS/SCADA systems is a plus

Client Culture:

- Empowered Individuals – Employee-owned, we are able to hire the best and empower them to develop and deliver solutions
- Rewarded & Motivated – Investing in continuing education and world-class benefits keeps our staff motivated
- Positive Attitudes – Dedicated experts are committed in the long run and bring a positive, can-do attitude to your project
- Knowledgeable – Recognized industry experts reinforced with ongoing training remain knowledgeable on the latest industry trends and directions

Working Conditions:

- The work environment characteristics described here represent those employee encounters while performing the essential functions of this job. Reasonable accommodation may be provided to enable individuals with disabilities to perform essential functions.
- Office desk/cubicle environment
- Frequent use of computers, engineering tools, and industrial control systems

Physical Demands:

- Occasional lifting, climbing, and working in production facilities during commissioning activities
- Work may include working weekends, holidays, night shift, and extended hours to meet deadlines and client requirements.

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