



Position Profile: 2227

Senior Instrumentation & Electrical Design Engineer BATON ROUGE, LA



Prepared By: *ECIG*

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Senior Instrumentation & Electrical Engineer [2227]

The world's leading specialist engineering contractor for low-density polyethylene (LDPE) and ethylene vinyl acetate (EVA) projects has an immediate need for a *Senior Instrumentation Engineer* preferably with electrical engineering and LDPE knowledge.

COMPANY INFORMATION: [WEBSITE <https://ecigrouponline.com/engineering-services/>]

Founded in 1977 ECI Group Inc. [ECIG] provides world-class engineering solutions to clients around the world, with have a long history of designing and developing industrial facilities and process plants for the production of fuels, chemicals and polymers. With core technical skills focused around the development and design of a range of processes, we continually embrace new technologies and innovative project methodologies which have contributed to our success in this field. Our full-service offering covers all Engineering discipline including Process, Mechanical (Machinery/Vessels), Piping and Pipe Stressing, Plant Layout, Electrical, Control & Instrumentation, and Civil & Structural. Our engineering services expertise includes:

- Concept Development - feasibility, cost estimates, front end design, basic engineering
- Detailed Design - hazard studies, FEA, DCS/SIS, flare systems, as-built drawings
- Owner's Engineer - Project Management, contractor evaluation, due diligence, technical reviews
- Safety Critical Engineering - SIL/LOPA, relief systems, HAZOP chair, thermal and vibrational stress analysis, design for high pressure / toxic / corrosive service

BENEFITS AND FEATURES

- ✓ Full Benefits Package - health, dental, vision insurance.
- ✓ Company paid short & long-term disability and life insurance
- ✓ Flexible Spending Plans, Education Reimbursement, Dependent Care Spending Plan
- ✓ 401K Retirement Plan
- ✓ Hybrid Work Schedules

YOUR ROLE WITH THE COMPANY:

- This position reports directly to the Instrumentation |Electrical Engineering Section Leader John Mekari, P.E. [<https://www.linkedin.com/in/johnmekari/>]
- Develop detailed design documents for new assignments which may involve some unusual or difficult problems requiring specific job or industry knowledge.
- Coordinate and execute instrumentation work with a lead instrument designer.
- Read and develop Piping & Instrumentation Diagrams (P&IDs)
- Preparation of instrumentation equipment and construction specification documents:
- Develop drawings and specifications for construction including network communication block diagrams, loop diagrams, logic diagrams, control panel details, junction box wiring diagrams, instrument installation details, etc.
- Review and evaluate equipment vendor information and determine suitability for specific project applications. Participate in Factory Acceptance Testing (FAT) when requested.
- Participate in field investigations and provide construction support.
- Respond to field information requests.

Preferred Electrical Job Functions, in addition to the Essential Instrumentation Job Functions listed above:

- Ability to coordinate and execute Electrical work with a lead Electrical designer.
- Design of plant power distribution and preparation of one-line diagrams, schematic diagrams,

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FOR MORE INFORMATION CONTACT:

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- equipment layouts, lighting, grounding, installation details, etc.
- Preparation of equipment and construction specification documents, including power panels, MCCs, switchgear, transformers, substations, motors, etc.
- Model and conduct power systems analysis (short circuit, load flow, protective relay coordination and arc flash analysis).
- Review and evaluate equipment vendor information and determine suitability for specific project applications. Participate in FAT activities when requested.
- Participate in field investigations and provide construction support.
- Respond to field information requests
- Review supplier technical quotes and prepare technical bid analysis
- Update inquiry documents to order
- Attend/run post order kick off meetings
- Review supplier design documents and coordinate with equipment supplier
- Travel to witness inspections
- Attend kick-off meetings or attend client sites.

COMMUNITY INFORMATION:

- ✓ Baton Rouge is the 2nd largest metropolitan area in Louisiana and is a hub for major industrial, petrochemical, medical, research and motion picture and growing technology center of the American South.
- ✓ The home to LSU, the Port of Greater Baton Rouge (10th largest in terms of tonnage shipped)
- ✓ Located just 79 miles from New Orleans two professional sports teams (Saints - NFL, Pelicans - NBA) and New Orleans' world-renowned distinct music, Creole cuisine, unique dialect, and its annual celebrations and festivals, most notably Mardi Gras.
- ✓ ECI Group's Corporate office is conveniently located off the I-12 and Sherwood Forest Blvd S. exit.



BACKGROUND PROFILE:

- Bachelor's Degree Mechanical Engineering is required.
- Licensed Professional Control Systems or Electrical Engineer in Louisiana and Texas preferred. A passed FE exam is a must.
- 10+ years of related experience in engineering design of oil& gas, petrochemical or plastics plants
- Must be able and willing to travel to off-site locations and/or accept client site assignments when required.
- Detail-oriented with strong analytical skills.
- General understanding of the entire cradle to grave workflow for an EPC Project, interdepartmental dependencies, recognition of the importance of TIC rather than individual constituents that make up the whole.
- Must be capable of working a part of a close-knit small core team as well as being self-reliant with the confidence to make decisions acting on their own initiative.
- Comfortable with occasional opportunities for international travel.

COMPENSATION:

- ✓ Competitive Based on Experience