Controls Engineer

FCI Sand Operations · Pleasanton, TX / Three Rivers, TX · Eagle Ford Basin

Reports To: Maintenance Manager
Status: Full-Time, Exempt
Location: On-Site — Pleasanton, TX & Three Rivers, TX

About the Role

FCI Sand's processing plants rely on PLC-based automation to run safely and efficiently at high throughput. The Controls Engineer owns the site's control system architecture — maintaining, improving, and expanding PLC and HMI programming, process automation, and instrumentation integration to maximize reliability and operational visibility across wash plant, dry plant, and loadout.

Key Responsibilities

- Own PLC and HMI programming, configuration, and version control across all site control systems (Allen-Bradley/Rockwell or equivalent)
- Develop, modify, and document PLC logic for process control, interlocks, safety shutdowns, and alarm management
- Design and implement process automation improvements that increase throughput, reduce manual intervention, and improve product quality consistency
- Maintain and improve the SCADA/historian system for process data capture, trending, and reporting
- Support troubleshooting of control system faults, PLC hardware failures, and communication network issues
- Collaborate with the Senior I/E Technician on instrumentation calibration, loop commissioning, and field wiring
- Develop and maintain P&IDs, electrical schematics, and control system documentation
- Evaluate and specify new instrumentation, sensors, and control hardware for capital projects
- Interface with OEM vendors (CDE, dryer manufacturers, loadout system suppliers) on control system integration
- Train operators and I/E technicians on control system use and troubleshooting

Qualifications

- BS in Electrical Engineering, Controls Engineering, or related field preferred
- 4+ years of industrial controls engineering experience in mining, processing, or manufacturing
- Proficiency in Allen-Bradley/Rockwell PLC programming (Studio 5000/RSLogix 5000) required; FactoryTalk View (HMI) experience strongly preferred
- Experience with process instrumentation (4-20mA loops, HART, fieldbus) and industrial networking (EtherNet/IP)
- Ability to read and create electrical schematics, P&IDs, and instrument data sheets
- MSHA Part 46 awareness or willingness to obtain
- Strong documentation habits and system change management discipline

What Sets This Role Apart

You design and own the automation systems that make high-throughput frac sand production possible — and you have the opportunity to build them right from near-scratch on a site undergoing full turnaround.