

Senior I/E Technician

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 facilities run on automation and instrumentation — PLCs, VFDs, motor control centers, sensors, and control systems that require skilled I/E expertise to maintain and improve. The Senior Instrumentation & Electrical Technician will serve as the site's primary electrical and instrumentation resource, owning the health of all electrical and control systems across wash plant, dry plant, and loadout operations.

Key Responsibilities

- Troubleshoot and repair electrical systems including motor control centers (MCCs), variable frequency drives (VFDs), control panels, motors, and associated wiring
- Maintain, calibrate, and repair instrumentation including level sensors, pressure transmitters, flow meters, proximity switches, and temperature elements
- Perform PLC/HMI diagnostics and minor programming modifications in coordination with the Controls Engineer
- Execute and document electrical preventive maintenance tasks per PM schedule
- Respond to electrical breakdowns and instrumentation failures during operations — including after-hours on-call
- Read and interpret electrical schematics, P&IDs, and loop drawings
- Ensure all electrical work is performed in compliance with NEC, MSHA Part 46, and site electrical safety standards
- Maintain documentation for panels, conduit runs, and instrumentation calibration records
- Mentor and support junior maintenance technicians on electrical and I/E tasks
- Collaborate with Controls Engineer on control system improvements and automation projects

Qualifications

- 5+ years of industrial I/E technician experience in mining, processing, or heavy industrial environments
- Strong troubleshooting skills in AC/DC motor control, VFDs, PLCs (Allen-Bradley/Rockwell preferred), and field instrumentation
- Ability to read and interpret electrical schematics, control diagrams, and loop drawings
- Experience with MCC wiring, conduit installation, and 480V systems
- MSHA Part 46 electrical safety awareness required
- Journeyman Electrician license a plus
- Ability to work rotating shifts and participate in on-call rotation

What Sets This Role Apart

You are the site's electrical and instrumentation expert — the person the whole maintenance and operations team counts on when a VFD trips, a sensor drifts, or a PLC alarm won't clear.