

Panel Builder

Water • Wastewater • Industrial Automation

POSITION SUMMARY

We are seeking a highly motivated Panel Builder who is responsible for the fabrication, assembly, wiring, testing, and quality verification of industrial control panels, motor control assemblies, PLC panels, VFD panels, and automation systems used in water, wastewater, municipal, and industrial process facilities. This position interprets electrical drawings and schematics to construct panels that meet project specifications, UL 508A requirements, NEC standards, and company quality standards. The Panel Builder works closely with Engineering, Project Management, and Quality personnel to ensure control panels are delivered on schedule and are production-ready for field installation and commissioning.

RESPONSIBILITIES

Panel Fabrication & Assembly

- Assemble Industrial control panels, MCC buckets, PLC panels, VFD panels, Relay panels, and Operator interface enclosures.
- Assemble control panels in accordance with UL 508A construction standards and company quality procedures.
- Layout and mount electrical components according to panel drawings and bill of materials.
- Install DIN rail, wire duct, terminal blocks, power supplies, relays, circuit breakers, PLC hardware, communication devices, and instrumentation interfaces.
- Drill, tap, cut, and modify panel enclosures and back panels as required.
- Assemble subassemblies and control system components according to engineering specifications.
- Perform panel labeling using approved company standards.

Wiring & Electrical Assembly

- Read and interpret:
 - Electrical schematics
 - Wiring diagrams
 - One-line diagrams
 - Control narratives
 - Panel layout drawings
- Route and terminate conductors neatly and accurately.
- Wire control circuits, power circuits, instrumentation circuits, and communication networks.
- Verify conductor sizing, wire numbering, and component issues.
- Perform point-to-point wiring checks and continuity testing.

Testing & Quality Control

- Conduct electrical inspections throughout the assembly process.
- Perform continuity testing, insulation verification, and power-up checks.
- Troubleshoot wiring and component issues.

- Verify assemblies comply with UL 508A, NEC, and company quality standards.

Team Collaboration

- Coordinate with Engineers regarding drawing discrepancies and design clarifications.
- Assist with inventory verification and material shortages.
- Support continuous improvement initiatives.

QUALIFICATIONS

Experience & Education

- Minimum 2-5+ years of electrical assembly experience.
- High school diploma required; college or technical degree preferred.
- Preferred Certifications:
 - UL 508A
 - NFPA 70E
 - Electrical Training Certificate

Technical Skills

- Ability to read electrical schematics and wiring diagrams.
- Knowledge of industrial electrical components.
- Working knowledge of UL 508A panel construction standards preferred.
- Experience using hand tools, power tools, and testing equipment.
- Understanding of electrical safety practices.
- Knowledge of:
 - UL 508A Requirements
 - NEC (National Electrical Code)
 - NFPA 70E
- Familiarity with:
 - PLC systems (Allen-Bradley, Siemens, Schneider, Automation Direct)
 - Variable Frequency Drives (VFDs)
 - Motor starters
 - SCADA and HMI hardware
 - Instrumentation and process control devices
- Experience assembling:
 - Water treatment control panels
 - Wastewater lift station controls
 - Pump control panels
 - MCC Buckets
 - Industrial automation systems

Professional Skills

- Excellent verbal and written communication skills.
- Strong attention to detail and workmanship.
- Ability to identify and resolve assembly discrepancies
- Commitment to producing clean, organized, and professional panel assembly.
- Ability to work independently and as part of a team.

- Ability to communicate effectively with production, engineering, quality, and project management teams.

Work Environment & Physical Requirements

- Ability to lift up to 50 lbs. unassisted.
- Ability to walk, stand, kneel, bend, and use hand tools for extended periods.
- Distinguish wire colors and component markings.
- Work safely around energized equipment during testing activities.
- Work is primarily preformed in a manufacturing and panel assembly environment with occasional travel to project sites for support, startup, or commissioning activities.

SALARY / BENEFITS

- Competitive pay, commensurate with experience
 - Estimated range: \$24 - \$35 per hour, depending on role level and employment status
- Comprehensive benefits package may include:
 - Medical, dental, and vision insurance
 - Paid time off and holidays
 - 401(k) with company match and/or profit sharing
 - Signing bonuses or performance-based incentives
 - Training, certifications, and career advancement opportunities
 - Travel reimbursement and allowances