

Orenco Systems, Inc.

Job Description

Job Title: Electrical Controls Eng. II **Job Code:**
Salary Grade: 25
Department: Controls-Sales & Engineering **FLSA Status:** Exempt

GENERAL POSITION SUMMARY:

This is an intermediate level position that exists to receive and interpret specifications for Orenco electrical products and services, develop and extend price quotes, design customized equipment, provide customer support, and promote and market Orenco Systems, Inc. electrical equipment.

RESPONSIBILITIES:

Essential Functions:

- Design/Programming
 - Develops code for programmable logic devices and Orenco SCADA systems.
 - Develops code for HMI systems.
 - Designs networked systems using standard protocols including Modbus RTU, TCP/IP.
 - Designs and drafts wiring schematics for electrical panels, based on customer provided specifications.
 - Writes and reviews installation procedures for electrical equipment configurations.
- Test/Monitor Production
 - Checks finished layout of custom panels to assure proper setup and design. Tests completed custom panels for defects and proper operation.
 - Safely tests equipment with voltages as high as 480VAC 3 phase.
 - Files all panel construction details of customer panel orders for future reference.
- Quoting
 - Receives and interprets customer specifications, determines customer needs, and develops product and price quotes. Suggests changes to customer's specifications to improve functionality as needed.
 - Obtains price quotes for custom components from suppliers. Coordinates with the Purchasing Department to ensure prompt ordering of custom and non-stocked components necessary in building custom electrical control panels.
- Customer Service
 - Provides continuous customer support of electrical controls and associated equipment throughout the sales, manufacturing, and installation processes.
 - Communicates with customers by telephone and in writing.
 - Travels to job sites, as necessary, to oversee or assist in electrical system startups, perform field modifications, on-site troubleshooting, or to support the Sales or Systems Engineering personnel as required.
 - Promotes Orenco Systems electrical panels by meeting with distributors, prospective distributors, OEM's, contractors and regulators, and demonstrating Orenco Systems products and equipment.
 - Conducts seminars with distributors, contractors, regulators, and electricians to explain and demonstrate proper use and installation of Orenco System electrical control panels.

- Research
 - Stays abreast of Orenco related products and technology by reading professional literature and attending industry related seminars.
 - Understands NEC code and UL requirements that apply to Orenco's control panels and pump installations.
 - Designs and develops new products as needed.
- Attends team meetings and contributes ideas and opinions, continuously seeking improved methods for providing quality customer service.
- Designs and assists in the installation of in-house electrical equipment for Orenco.
- Performs other duties as assigned.
- Regular attendance is an essential function of this job.
- Reviews catalogs, flyers, and component specifications and recommends products for use in Orenco electrical control panels.
- Trains other team members as needed.

EDUCATION:

Bachelor of Science Degree in Controls, Electrical, or Mechanical Engineering is required, or related degree.

KNOWLEDGE/SKILLS/EXPERIENCE:

- At least one year of electrical controls engineering experience.
- Ability to be flexible and change priorities with little notice.
- Ability to communicate in a professional, courteous, customer service oriented manner.
- Ability to successfully interact with individuals from diverse backgrounds and extreme variations in educational levels.
- Above average organizational skills.
- Current driver's licence and good driving record is required.
- Strong knowledge of digital logic programming.
- Strong knowledge of motor and industrial controls.
- Strong knowledge of PLC's and ladder logic programming.
- Familiarity with HMI programming.
- Familiarity with wastewater treatment processes.
- Familiarity with instrumentation.
- Proficient with spreadsheet and word processing software.
- Marketing/Sales experience is preferred.
- Proficient with CAD.
- Excellent verbal and written communication skills are required.

TOOLS AND EQUIPMENT:

CAD Program

Computer

Microsoft Office

Multimeter

Hand Tools (screwdrivers and drills)

Multi-Line Phone with Intercom

Shop Equipment (drill press, punch, break)

WORKING CONDITIONS:

Office environment. Travel to off site locations is necessary.

PHYSICAL REQUIREMENTS:

Speaking, seeing, hearing, sitting, walking, keyboarding, driving, light electrical panel assembly.

Last revised: 11/30/2005