



## **Open Position Electronics Engineer**

Location: Multiple Locations - Lisle, IL 60532; Albia, IA 52531

Employee Type: Full Time

Manages Others: No

Job Type: Professional

Education: Bachelors Degree (Minimum)

Experience: At least 5 year(s)

Travel: Moderate

Relocation Covered: No

### DESCRIPTION:

RELCO Locomotives is looking for a highly motivated electronics engineer to join our engineering team.

(1) The engineer will lay out, build, test, troubleshoot, repair, and modify developmental and production electronic components, parts, equipment, and systems, such as computer equipment, radio control, test equipment, and machine tool numerical controls.

(2) The engineer will also manage projects using Relco's project management methodology. Such projects will usually involve the rollout of new products but may also include manufacturing projects that use such products.

### REMUNERATION:

- ❖ Base Pay: \$50,000 - \$75,000/yr
- ❖ Position is not eligible to receive performance bonus
- ❖ All employees eligible for health, dental, vision, disability, life insurance and 401k
- ❖ Job classification upgrade may be available based on experience

### RESPONSIBILITIES:

- ❖ Engineering
  - Research equipment and component needs, sources, competitive prices, delivery times and ongoing operational costs.
  - Work with vendors, contractors and other engineers to choose cost effective and high quality components.
  - Manage small level proof of concept prototype development to align with product schedules
  - Support production line testing and debugging.
  - Design, debug, integrate and test firmware and microprocessor software programs.
  - Collaborate with radio engineering to ensure proper encoding/decoding of transmission.
  - Design and prototype analog and digital circuits.
  - Test electronics units, using standard test equipment, and analyze results to evaluate performance.
  - Perform preventative maintenance and calibration of equipment and systems.
  - Read and develop blueprints, wiring diagrams, schematic drawings, and engineering instructions.
  - Identify and resolve equipment malfunctions while working with manufacturers and field representatives.
  - Maintain system logs and manuals to document testing and operation of equipment.
  - Fabricate parts, such as coils, terminal boards, and chassis, using bench lathes, drills, or other machine tools.
  - Assemble, test, and maintain circuitry or electronic components according to engineering instructions, technical manuals, and knowledge of electronics, using hand and power tools.
  - Adjust and replace defective or improperly functioning circuitry and electronics components.
  - Procure parts and maintain inventory and related documentation. Provide user applications and engineering support and recommendations for new and existing equipment with regard to installation, upgrades and enhancement.



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- Write reports and record data on testing techniques, laboratory equipment, and specifications to assist engineers.
  - Design basic circuitry and draft sketches for clarification of details and design documentation under engineers' direction, using drafting instruments and computer aided design equipment.
  - Build prototypes from rough sketches or plans.
  - Develop and upgrade preventative maintenance procedures for components, equipment, parts and systems.
- ❖ Project Management
- Maintain working knowledge of state-of-the-art tools, software, etc., through reading and/or attending conferences, workshops or other training.
  - Provide internal customer support and education, working with users to identify needs, determine sources of problems and to provide information on product use.
  - Manage a project through its entire life cycle using Relco's methodology including defining requirements, building bills of material and labor, and managing to a project plan.

### REQUIREMENTS:

- ❖ Computers and Electronics -- Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
- ❖ Engineering and Technology -- Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
- ❖ Mechanical -- Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- ❖ Mathematics -- Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
- ❖ Project -- Familiarity with the concepts and methodologies in the discipline of Project Management
- ❖ Production and Processing -- Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.
- ❖ Expert use of software tools: AutoCAD, Microsoft Project, Microsoft Office 2007
- ❖ Excellent verbal and written communication skills in English. Friendly and helpful demeanor.