

JOB DESCRIPTION

EQUIPMENT TECHNICIAN II

Status: Non-exempt, full-time
Salary: \$55,000 - \$70,000 w/ overtime, depending on experience
Reports to: Engineering Manager

Summary of the Position: Under general supervision performs electrical/mechanical assembly, test and repair of prototypes, products, and equipment in support of Thermochem Engineering, Field, Consulting, and Laboratory activities.

Duties and Responsibilities

Electronics and Software:

- Designs and builds complex electronics for equipment used for remote test and analysis of high temperature, harsh environments.
- Diagnoses and fixes electronic circuits using equipment including digital volt meters, oscilloscopes, and power supplies.
- Solders surface mount, fine pitch, through board and high temperature components.
- Develops, builds, and tests medium complexity PLC systems, typically based on Siemens and RedLion equipment.
- Produces schematics and wiring diagrams as required to document new design and existing equipment configurations. Routinely works from in-process design documentation.
- Develops, codes, tests, debugs, and troubleshoots firmware and software.
- Installs electrical instruments and equipment including sensors, motors, pumps, wiring/cable, etc., in support of drilling, power plant, well field, and laboratory operations.
- Responsibly executes all work assignments with a focus on safety, quality, responsible creativity, electrical/mechanical aptitude, and follow through.
- Provides sound technical advice, contributes to process development, and demonstrates technical competence and continued improvement with minimal direction.
- Performs other assigned duties and tasks as required.

Education, Knowledge, Skills, and Abilities

Education/Experience:

- Minimum of 5+ years of experience.
- Minimum AA/AS degree in an electronics discipline and/or a specialized training/certification or equivalent.

Knowledge:

- Ability to successfully design, build, test, troubleshoot and repair electronic equipment.
- Demonstrated solid understanding of analog and digital circuits and theory.

- Ability to read and create equipment and board level schematics and wiring diagrams in AutoCAD, SolidWorks and/or other computer aided design software.
- Knowledge and experience developing, writing, and implementing firmware and software code. Ability to program Honeywell 8051 micro controllers in assembly language is highly preferable.
- Demonstrated computer literacy skills including word processing, spreadsheets, and basic file structure. Working knowledge of Microsoft Outlook, Excel, Visio, Word, and PowerPoint.
- Demonstrated ability to comprehend, interpret, and convey detailed technical data.
- Demonstrated excellence in identifying problems and developing solutions.
- Demonstrated ability to develop and maintain good interpersonal relationships within the company and with customers.

Work Hours and Travel:

- Office work hours are M-F 7:30-4:30pm.
- Occasional travel as needed for training and business needs

Physical Requirements:

- Ability to lift 70 lbs. and to push/pull up to 100 lbs.
- Sitting, lifting, bending, climbing, twisting, reaching, walking, standing and repetitive motion
- Driving of company vehicles and operation of equipment and machinery (with training)

Working Conditions:

- Standard indoor conditions during office work
- Outdoor sheltered working conditions for shop/warehouse work
- Outdoor unsheltered conditions during field work, including extreme heat and cold, all weather
- Field deployments in all environments from greenfield to fully operational power plants

Licenses:

- Class C motor vehicle operator's license
- Driving record acceptable for Thermochem's corporate insurance policy
- Passport
- Ability to work in the United States

This job specification should not be construed to imply that these requirements are the exclusive standards of the position. Incumbents will follow any other instructions, and perform any other related duties, as may be required by their supervisor.