

Astec, Inc.

Job Description

Job Title: Controls Engineer
Department: Controls
Reports To: Lead Engineer
FLSA Status: Exempt

SUMMARY

Researches, develops, designs, and tests electrical components, equipment, and systems by performing the following duties.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Design electrical equipment, facilities, components, products, software and systems for commercial, industrial, and domestic purposes.
- Design and direct engineering personnel in fabrication of test control apparatus and equipment and determine methods, procedures, and conditions for testing products.
- Design of Industrial Control Systems and equipment, including integrating electrical wiring requirements to pneumatic and or hydraulic systems.
- Understanding of automation principals.
- Understanding of Programmable logic controllers.
- Understanding of best coding practices.
- Knowledge of and some experience programming in C, C++, Ladder Logic. (Siemens Step 7 preferred)
- Knowledge of Networks and communication protocols. Profibus and Profinet a plus.
- Develop applications of controls, instruments, and systems for new commercial, domestic, and industrial uses.
- Direct activities to ensure that manufacturing, construction, installation, and operational testing on controls systems conform to functional specifications and customer requirements.
- Direct and coordinate operation, maintenance, and repair of controls equipment and systems in field installations.
- Responsible for the support and quality of the Products with-in their Department Group.
- Use computer assisted engineering and design software and equipment to perform controls engineering tasks.
- Communicate via reports, e-mail, and memos to management and other employees on problems, issues, plans, and projects.
- Must effectively work with other Astec, Inc. employees to solve problems and develop projects.
- Travel to customer sites to troubleshoot problems and make programming changes to systems. Travel is approximately one-third of the time.
- Complete projects and assignments in a timely and proper manner, focusing on quality and customer satisfaction.
- Follow company policies and procedures at all times.
- Follow proper safety rules and procedures at all times.
- Perform other duties as assigned.

SUPERVISORY REQUIREMENTS

Typically none.

KNOWLEDGE, SKILLS, and ABILITIES

- Bachelor's degree from a four-year college or university in Electrical Engineering, or Computer Engineering, or Computer Science; three to five years related experience and/or training; or equivalent combination of education and experience required.
- Ability to effectively work as a member of a team is required.
- Problem solving ability and time management skills are required.
- Ability to work independently and with minimal supervision is required.
- Knowledge of database software, design software, development software, internet software, spreadsheet software, and word processing software is required.
- Ability to communicate in oral and written form is required.
- Some knowledge and understanding of National Electric Code is required.
- Ability to work with mathematical concepts such as probability and statistical inference and to apply concepts such as fractions, percentages, ratios, and proportions to practical situations is required.
- Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations and apply them to requirements and duties of the position is required.
- Must be able to meet regular attendance requirements.

REASONING ABILITY

Ability to solve practical problems relating to the position and deal with a variety of situations relating to job requirements, including dealing with irate customers is required.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, or feel; reach with hands and arms; climb or balance; stoop and kneel, or crawl; and talk and hear. The employee frequently is required to stand, walk, and sit. The employee must occasionally lift and/or move up to 40 pounds. The employee is required to operate an automobile and travel by airplane. Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly exposed to risk of injury in an asphalt plant, soil remediation plant or wood pellet plant environment. Some duties include a typical office setting including computer work. The employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to toxic or caustic chemicals, extreme cold, and extreme heat. The noise level at the above mentioned plant environments are occasionally very loud.

Note: This job description is intended to be a general guideline of areas of responsibility. There will be incidental tasks not listed on a job description that arise at various times. These tasks are assigned to help out the department and company and, as a member of the Astec, Inc. team; each employee is expected to help in these areas.

(REVISED 10/26/15)