

# **CONTROL SYSTEM PLC ENGINEER**

**GENERAL SUMMARY:** Control Systems Engineer to develop, review, and support testing of Programmable Logic Controller (PLC) software applications. The candidate will have experience in the design, assembly, troubleshooting, software development for PLC control systems, and the ability to troubleshoot control systems with the use of system documentation and electrical schematics. The candidate will be expected to complete assigned tasking, even if doing so requires more time than expected. The candidate will be tasked by and report to technical leads. The candidate will be expected to provide documented status updates on a regular basis.

**LOCATION:** Naval Surface Warfare Center in Philadelphia, Pennsylvania

## **PRINCIPAL DUTIES/RESPONSIBILITIES:**

1. Develop, program, test, and install PLC software applications and ladder logic diagrams.
2. Prepare test procedures and perform verification testing of PLC control systems.
3. Troubleshoot, modify, construct and test various types of electrical and/or Navy shipboard PLC control systems equipment.
4. Generates new code and corrects, converts, and/or modifies existing code to meet specifications.
5. Prepares detailed specifications from which code will be written.
6. Writes and updates technical documentation such as users' manuals, product specifications, and training materials.
7. Applies technical knowledge of PLC and electronics principles in order to put equipment in operational condition and solve complex problems.
8. Troubleshoots and corrects malfunctions using specialized test and diagnostic equipment such as a digital multi-meter or an oscilloscope
9. Makes recommendations for improvements or modifications to correct problems.
10. Prepares operating and malfunction reports and related documentation.
11. May perform quality assurance testing of assemblies and equipment fabricated by other technicians.
12. Maintains current knowledge of relevant technologies as assigned.
13. Participates in special projects as required.

## **EDUCATION AND EXPERIENCE REQUIREMENTS:**

1. Bachelor's Degree in Electrical Engineering, Computer Engineering or Mechanical Engineering is preferred, Engineering Technicians with PLC software development and controls experience will be considered.
2. We are looking for candidates with all levels of experience in control systems.

## **SPECIAL REQUIREMENTS:**

1. Successful applicants must either have an active government security clearance or the ability to receive approval upon position acceptance.
2. Travel Requirements: Anticipate travel to be up to 25%

## **SKILLS AND ABILITIES:**

1. Experience with development and testing of PLC software applications. Must have ability to read and interpret ladder logic diagrams.
2. Basic electrical principals to include understanding the difference between current and voltage and how to effectively troubleshoot circuits containing them
3. Ability to read electrical schematics.
4. Proficiency with Microsoft Office suite (especially Excel, Word, and Outlook)
5. Attention to detail and meticulous logging of testing, troubleshooting steps, and findings

## **ADVANCED SKILLSETS DESIRED, BUT NOT NECESSARILY REQUIRED:**

1. Experience with Rockwell or Siemens PLC software language and development tools (e.g., RSLogix).

***Delphinus Engineering, Inc., is an EOE/Minorities/Females/Vet/Disabled Employer.***

Interested personnel should submit an electronic copy of their resume to [careers@delphinus.com](mailto:careers@delphinus.com)

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