



# Job Posting

**Position:**

Full-time Controls / Automation Engineer– Industrial Division

**Overview:**

PET Systems (PTS) is currently recruiting for a full-time Controls / Automation Engineer to join our team in Dallas, GA. We are seeking an entry level engineer who is motivated, well organized, collaborative, and eager to learn control system design and programming in the heavy industrial sector.

**Resume Submittal:**

All resumes should be submitted to [careers@petsystems.com](mailto:careers@petsystems.com) with the subject line: "Controls / Automation Engineer – Industrial Division"

**Requirements:**

- Must be willing and able to travel as necessary for project requirements.
- Must maintain professional competence, ethical integrity, knowledge, and skills.
- Handles sensitive and proprietary information in a confidential manner.
- Ability to work independently within parameters set by management. Assignments may be self-initiated. Determines and pursues courses of action necessary to obtain desired results.
- Excellent verbal and written communication skills. Strong presentation skills. Leads group discussions.
- Listening. Practices attentive and active listening; has the patience to hear people out; can accurately restate the opinions of others even when he/she disagrees.
- Priority Setting. Spends his/her time and the time of others on what is important; quickly zeros in on the critical few and puts the trivial many aside; can quickly sense what will help or hinder accomplishing a goal; eliminates roadblocks; creates focus.
- Dealing with Ambiguity. Can effectively cope with change; can shift gears comfortably; can decide and act without having the total picture; is not upset when things are up in the air; does not have to finish things before moving on; can comfortably handle risk and uncertainty.
- Problem Solving. Uses rigorous logic and methods to solve difficult problems with effective solutions; probes all fruitful sources for answers; can see hidden problems; is excellent at honest analysis; looks beyond the obvious and does not stop at the first answers.
- Decision Quality. Makes good decisions (without considering how much time it takes) based upon a mixture of analysis, wisdom, experience, and judgment; most of his/her solutions and suggestions turn out to be correct and accurate when judged over time; sought out by others for advice and solutions.
- Integrity and Trust. Is seen as a direct, truthful individual; can present the truth in an appropriate and helpful manner; keeps confidences; admits mistakes; does not misrepresent him/herself for personal gain.
- Customer Focus. Is dedicated to meeting the expectations and requirements of internal and external customers; gets firsthand customer information and uses it for improvements in products and services; acts with customers in mind; establishes and maintains effective relationships with customers and gains their trust and respect.



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**Skills / Qualifications:** The below skills are examples of what an entry level Controls Engineer should expect to learn and perform at PTS. It is not an expectation that the candidate currently possesses these skills. The only requirement is an eagerness to learn.

- Controls Engineer shall be proficient at generating control panel design drawings utilizing AutoCAD MEP and/or AutoCAD Electrical. Control panel design includes generating single lines, three lines, I/O drawings, specifying and generating Bill of Materials, panel layouts, ethernet / serial communication diagrams, and instrumentation connection diagrams.
- Controls Engineer shall be knowledgeable in UL508A and the NEC. Design work and drawings shall adhere to both UL508A and the NEC.
- Controls Engineer shall be proficient in Rockwell's suite of software including RS Logix 5, RS Logix 500, RS Logix 5000 / Studio 5000, FactoryTalk ME & SE, and other related Rockwell software. The Controls Engineer shall develop working PLC programs and HMI graphics utilizing previous company projects. All programming shall conform to industry best practices and client specifications.
- Controls Engineer shall setup and program a wide variety of VFDs including all families of Allen Bradley, Danfoss, Yaskawa, Grundfos, Eaton, etc.
- Controls Engineer shall be capable of setting IP address in various equipment and basic setup of a managed switch. The Controls Engineer shall generally understand network design, bandwidth limitations, security, and adhere to industry best practices.
- Controls Engineer shall work with other disciplines to understand fully the systems being integrated / controlled. The Controls Engineer shall develop Sequence of Operations (SOPs) for each project.
- Controls Engineer shall conduct Factory Acceptance Tests (FATs) as required.
- Controls Engineer shall generate detailed instrument lists and corresponding instrument location drawings.
- Controls Engineer shall be knowledgeable in typical industrial serial communication protocols (Modbus RTU, Bacnet MS/TP, LonTalk, etc.). The Controls Engineer shall be able to setup a serial to ethernet and perform basic troubleshooting of serial networks.
- Controls Engineer shall generate Requests for Proposal for controls related equipment and be able to scrub received proposals highlighting any technical deviations.
- Controls Engineer shall conduct onsite system startup and commissioning including I/O check of instrumentation, valves, motors, etc. Controls Engineer shall be sufficiently knowledgeable in the systems to direct start-up activities. Controls Engineer shall perform troubleshooting of system issues both programming related, and mechanical / process related.
- Controls Engineer shall coordinate with design engineers to fully understand the system design, required integration, and intended functionality. The Controls Engineer shall work with the design engineers to both develop the operation's manuals and train the operators and maintenance personnel.
- Ability to coordinate multiple projects related to system controls designs and installations.

## **Education:**

Bachelor's degree in Electrical Engineering, Computer Engineering, Electrical Engineering Technology, or Mechatronics preferred. Other related degrees or experience will be considered.



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### **Company Overview:**

PTS is a multi-discipline engineering firm well established in the Food & Beverage and Bulk Material Handling (Industrial) Industries. We are a close-knit group of like-minded engineers and designers who value our unique culture where everyone “rows the boat.” We keep overhead low and focus on small, tactical teams of engineers solving problems for our clients while completing all sizes of projects. We are an employee-owned company who can offer a path to ownership for outstanding contributors. PTS prides itself for being on the cutting edge of design technology using the latest software and design techniques to become more efficient and accurate. Our quality and flexibility have elevated us with our ever-growing existing customers. This has generated strong repeat business and an expanding customer base which has afforded our continued growth.