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Automation Controls Test Engineer

Posted 10-Jan-2025 (MST) | 4040 East Lanark Street suite 100, Meridian, ID 83642, USA | Salary | Full Time

JOB SUMMARY

The Automation Controls Test Engineer is responsible for testing, diagnosing, and resolving software and system control issues in all JST's wet processing equipment. This role emphasizes troubleshooting programmable logic controllers (PLC), human-machine interfaces (HMI), and system communication protocols to ensure equipment operates efficiently and meets design specifications.

DUTIES & RESPONSIBILITIES

1. Review and interpret engineering drawings, system specifications, and P&IDs to identify software or hardware-related issues.
2. Conduct system testing, including manual and automated functionality, to verify compliance with design and customer requirements.
3. Diagnose and resolve software and control issues using a systematic approach and deductive reasoning.
4. Troubleshoot and reprogram PLCs and HMIs to address functionality concerns and enhance system performance.
5. Assist in the setup and configuration of controllers, switches, sensors, and communication protocols (e.g., Ethernet, Modbus).
6. Collaborate with cross-functional teams to recommend and implement software and/or hardware updates or improvements.
7. Maintain comprehensive documentation of system testing results, issue resolution steps, and software modifications. As needed, issue Reports and Release Notes to maintain the Revision Control protocols of any changes made or to be made
8. Support field service operations by providing remote or onsite assistance to address software issues in deployed equipment.
9. Ensure adherence to quality standards, Management of Change (MOC) and system safety protocols during all phases of testing and troubleshooting.
10. Perform other duties as assigned, which may occasionally extend beyond the primary scope of this role, in efforts to support JST's business plans.
11. Contribute to the team effort by achieving results. Work cooperatively with team members, communicate design constraints, and work within the team to achieve solutions.
12. Able to work in various positions such as climbing, balancing, stooping, kneeling, crouching, laying, reaching with hands and arms, grasp, handle and operate hand and tools, as well as welding equipment.
13. Responsible for other duties and tasks as assigned and, in some circumstances, may be completely unrelated to this position but to support JST's business plans.

JOB REQUIREMENTS, SKILLS, AND EXPERIENCES

- Associate's degree in engineering, computer science, or a related technical field; bachelor's degree preferred.
- Proficiency in troubleshooting and programming PLCs and HMIs; Rockwell Automation experience is a plus.
- Familiarity with system control concepts, state machines, and communication protocols (Ethernet, Modbus, Serial).
- Strong critical thinking and problem-solving skills with attention to detail.
- Ability to read and understand electrical schematics and control system documentation.
- Experience in circuit troubleshooting and a solid understanding of fluid dynamics, heat transfer and assembly techniques.
- Effective verbal and written communication skills to collaborate across teams and document findings clearly.
- Willingness to work in a Class 100 cleanroom environment and adhere to 6S and quality standards.
- Ability to travel domestically and internationally up to 25% of the time as needed.

WORK ENVIRONMENT AND EMPLOYEE EXPECTATIONS

- Employees are expected to support the Company's business culture and values by demonstrating teamwork, integrity, good judgement, respect, innovation, and communication as well as by contributing at optimum levels toward the success of the company.
- Able to safely lift and carry, push or pull objects up to 50lbs.
- Able to walk, stand and work on feet for the duration of shift.
- Able to climb, balance, stoop, kneel, crouch, reach with hands and arms, grasp, handle and operate hand/power tools or controls.

COMPANY SUMMARY

JST Manufacturing is the expert in wet bench design and manufacturer and go-to international wet process and precision cleaning technology solutions manufacturer in the semiconductor, biomedical, food processing, and other clean industries. Our customers regard us as the company that can solve their difficult manufacturing process problems. Utilizing an onsite electrical and mechanical engineering staff, and a full plastic and metal fabrication facility, JST Manufacturing can provide both design and fabrication solutions for all of your wet processing processes. With teamwork, integrity, good judgment, innovation, and respect, we are committed to improving our customer's cleaning and handling challenges with quality, cost-efficient, and safe solutions.

By joining the JST Manufacturing, Inc. team you join a team of experts in wet bench design and manufacturing. From start to finish, we can engineer & design, then manufacture & install the right solution for any cleanroom need around the world.

CORE VALUES

JST places great importance on values such as teamwork, integrity, good judgment, respect, innovation, and communication. Upholding these values is crucial for fulfilling our mission and meeting the diverse needs of our customers. These principles serve as the foundational core of our company, and we expect our employees to embody them in their actions.

- **Teamwork** - Recognizing that effective collaboration is key, JST emphasizes the coordinated effort of employees working toward common goals, irrespective of their positions or departments.
- **Integrity** - JST is dedicated to acting with integrity, holding every member to the same moral and ethical standard to maintain the trust our customers place in us.
- **Good Judgment** - We have a responsibility to exercise good judgment, which includes continuous learning, trusting individual team members' skills, addressing biases, questioning and evaluating options, and following through with solutions.
- **Innovation** - Innovation, introducing new methods and solutions, allows JST to fulfill its mission and provide more efficient solutions.
- **Respect** - The company firmly believes in showing respect to every individual, regardless of their role. This includes effective communication, active listening, avoiding interruptions, offering constructive feedback, fair treatment, professionalism, recognition of contributions, and acknowledging others' needs.
- **Communication** - JST believes that effective communication is fundamental for building relationships and minimizing errors. Communication should be clear, conflict-solving, and bidirectional, utilizing approaches such as knowing where and about what to communicate, understanding the audience, active listening, collaboration, face-to-face communication when appropriate, using appropriate body language and tone, and relying on facts rather than unverified information.

BENEFITS AVAILABLE

- Medical / Dental / Vision
- 401(k)
- Life Insurance
- Paid Time Off
- Holiday Pay
- Available Overtime

- Flexible Work Schedule
- Referral Program
- Tuition Reimbursement
- Year End Performance Bonuses
- Competitive Pay BOE
- Remote Work Flexibility
- Possible Relocation Assistance Available

Important Notes:

JST is an AA/EOE employer.

Visa Sponsorship: Applicants must be authorized to work for ANY employer in the U.S. We are unable to sponsor or take over sponsorship of an employment Visa at this time.

Background Check Policy: JST's employees are subject to background checks based on business necessity. It is the employee's responsibility to disclose prior arrests and convictions. If it's found out that an employee might not be compliant with applicable policies, JST reserves the right to conduct a background check and refusal to comply with the background check is subject to termination.

Pre-Employment Drug Testing Policy: All offers of employment are contingent upon submitting to a drug test and satisfying JST's substance and alcohol testing requirements. If the applicant fails to comply with this policy, the testing requirements of the Company's related requests, or if the test result is positive and is subsequently confirmed, the offer of employment shall be withdrawn.

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with our quick 3 minute Application!

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Last Name*

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Phone Number*

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What is your preferred method of communication?

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