



## JST MANUFACTURING JOB DESCRIPTION

**Job Title:** Automation Controls Engineer (AE)

**Immediate Supervisor:** Engineering Manager

**Department:** Engineering

**FLSA Status:** Exempt, Full-Time

**Location:** Meridian, Idaho (Non-Remote)

### JOB SUMMARY

Prepares ladder logic programs (PLC) and human machine interface (HMI) design for custom precision cleaning and wet processing tools for worldwide applications. Performs hands on startup of equipment on-site in a class 100 clean room.

### DUTIES & RESPONSIBILITIES

1. Reviews and assesses project sales specifications with consideration for system safety, functionality, and manufacturing feasibility in order to prepare PLC ladder logic, HMI design, Facility host interface database and associated documentation.
2. Assists with electrical designs, P&ID drawings, and I/O lists, following engineering specifications.
3. Responsible for systems control, state machines, power management, and system functionality including all communications within, to and from the system.
4. Provide hands on support for engineering designs in a manufacturing environment, including start up and troubleshooting of new equipment. Startup of equipment is typically performed in a 100-Class clean room environment.
5. Completes engineering tasks on time to meet system manufacturing timelines and dates for on time project completion.
6. Works cooperatively with all project team members in coordinating designs for accurate and efficient manufacturing. Communicates design constraints and works within the team to achieve effective solutions.
7. Responsible for supporting the field service department with software questions and issues on equipment in the field. This includes analyzing code to find the root cause of errors and revising code as required to resolve the situation while ensuring other aspects of the project are not negatively affected.
8. Assist in continuous process improvements with a willingness to contribute positively to discussions.
9. Ability to read and understand electrical and plumbing schematics.
10. Responsible for other duties and tasks as assigned and, in some circumstances, may be completely unrelated to this position.



## **JOB REQUIREMENTS**

1. Bachelor's degree in engineering required, Electrical or Computer preferred.
2. Ability to read and understand electrical and plumbing schematics.
3. Ability to effectively and clearly present and express written and verbal information to individuals and/or groups required.
4. Ability to work and contribute within a team.
5. Ability to quickly learn and adapt to JST practices and JST specific ladder logic and HMI design.
6. Experience with Programmable Logic Controllers (PLC) and Human Machine Interface (HMI) designs desired. Rockwell Automation experience preferred (Studio 5000, FactoryTalk View SE/ME)
7. Ethernet, Modbus, and Serial communication knowledge preferred. Knowledge of SECS/GEM communication protocol a plus.
8. Ability to travel domestically and/or internationally if projects permit.

## **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

## APPLICATION PROCESS

You can download our employment application from [our website](#). Employment applications and resumes are accepted through the following venues:

- (1) Mail: 4040 East Lanark Street, STE 100, Meridian, ID 83642
- (2) Online Application: <https://jstmfg.isolvedhire.com>
- (3) Email: [hr@jstmfg.com](mailto:hr@jstmfg.com)

### *Important Notes:*

- JST is an AA/EOE employer.
- 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.