



Job Title: Electrical Controls Engineer
Department: Engineering
Sub Department: Electrical Controls Engineering
Immediate Supervisor: Electrical Control Manager
Status: Exempt; Full Time
Location: Meridian, Idaho (Non-Remote)

JOB SUMMARY

Prepares electrical power and controls designs for custom precision cleaning and wet processing tools for worldwide applications. Design packages include electrical power schematics, P&IDs, electrical control schematics, pneumatic control schematics, bill of materials, PLC Input/Output Lists, and process plumbing schematics. Assists project quoting and estimating with design concepts and component lists for accurate total design and manufacturing cost estimates.

DUTIES & RESPONSIBILITIES

1. Reviews and assesses project sales specifications with consideration for system safety, functionality and manufacturing feasibility in order to prepare preliminary design approval packages including engineering specifications that are presented to the customer for design approval.
2. Responsible for design and manufacturing documentation completion including electrical and controls schematic and wiring diagrams, P&ID drawings, PLC hardware I/O lists, and plumbing schematics for systems as detailed in the written engineering specifications.
3. Completes engineering tasks on time to meet system manufacturing timelines and dates for on time project completion.
4. 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.
5. Provides timely feedback on request for information and questions from manufacturing personnel. Identifies and resolves manufacturing discrepancies and follows up with necessary revisions to manufacturing documentation to ensure complete issue resolution.
6. Interact with ERP software system for project BOM creation utilizing standard inventory materials and products. Work with outside suppliers and vendors to specify non-standard products and materials for correct procurement by the purchasing group.
7. Provide hands on support for engineering designs in a manufacturing environment, including troubleshooting of new electrical components and equipment.
8. Prepare operations and maintenance manuals for manufactured equipment.
9. Assist in continuous process improvements with a willingness to contribute positively to discussions.



10. Responsible for other duties and task as assigned and, in some circumstances, may be completely unrelated to this position

JOB REQUIREMENTS, SKILLS, AND EXPERIENCES

- Bachelor's degree in Electrical Engineering or related field required.
- Experience with SolidWorks Electrical or similar electrical design software preferred.
- Ability to read and understand electrical schematics and wiring diagrams from a variety of sources and manufacturers.
- Awareness of low voltage power systems and National Electric Code requirements. Knowledge of hazardous area requirements a plus.
- Proficient in control circuit wiring and relay contact logic.
- Familiar with PLC hardware including digital and analog input and output components. Experience with Allen-Bradley is a plus.
- Understanding of basic Ethernet networking principals, practices and hardware.
- Familiarity of process variables such as temperature, pressure, flow, level, position, etc and the instrumentation and final control elements associated with each in both analog and digital variations.
- Ability to effectively present and clearly express written and verbal information to individuals and/or groups required.
- Ability to work and contribute within a project team.
- Capable of working independently to drive engineering projects to completion.
- Ability to learn quickly and adapt to new practices and procedures.

WORK ENVIRONMENT AND EMPLOYEE EXPECTATIONS

- Employees are expected to support the Company's business culture and values by demonstrating integrity, simplicity, trust, respect, and shared risk 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 is an industry leader, dedicated to providing state-of-the-art wet processing, drying, and chemical management tools for applications in semiconductors, electronics, flat panel displays, optoelectronics, medical devices, and other industries where cleanliness is critical

CORE VALUES

INTEGRITY



We consistently operate at the highest ethical and moral standards.

SIMPLICITY

Our 80/20 Front-to-Back Process helps us think and act simply – it creates an intense focus on our most profitable products and customers.

TRUST

We trust our people to operate with their best efforts and in the best interests of the company.

RESPECT

We treat everyone as we expect to be treated and value the diversity of perspectives, backgrounds, and experiences of all colleagues.

SHARED RISK

We celebrate our successes together and take responsibility for our mistakes and challenges as a team.

COMPANY BENEFITS AVAILABLE

Medical / Dental / Vision | 401(k) Matching | Life Insurance | Company Paid Short-Term and Long-Term Disability | Paid Bereavement Leave | Paid Parental Leave | Paid Time Off | Holiday Pay | Flexible Work Schedule | Referral Program | Tuition Reimbursement | Competitive Pay BOE | | 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

Important Notes:

- JST is an AA/EEO 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.