

January 28, 2025

Electrical & Controls Engineer

IMMEDIATE OPENING

Job Type: Full-time, salaried, exempt.
Competitive market salary based on experience and skill level.
Paid time off and rich benefit package.

Who We Are:

[AVANTech, LLC](#) solves some of the most challenging problems in the water industry – from being first responders to the [Fukushima Nuclear Plant](#) meltdown to implementing patented technology. AVANTech's goal is to improve the environment around us with innovative water treatment solutions. We are hiring an experienced **Electrical & Controls Engineer** to join our team in **Knoxville, Tennessee**.

Benefits of working with AVANTech:

- Flexible work hours, including 4-day work week or other schedule options
- Generous paid time off and holidays
- Great opportunity for advancement with a growing company
- Varied insurance offerings with employer matching
- 401(k) savings plan with employer match

Who You Are:

The **Electrical & Controls Engineer**, working closely with the Engineering Manager, will be responsible for the electrical design and PLC/HMI programming of industrial water treatment systems. The design process includes creating electrical drawings using AutoCAD, determining system loads, supervising the construction of the electrical system, programming the system PLC and HMI, commissioning the system prior to shipment and at the customer site in the field.

A Day in the Life:

- Complete electrical system design and programming from concept to commissioning.
- Electrical panel design, wiring, and fabrication.
- Specify and order Instrumentation and electrical components.
- Develop, revise, and maintain system documentation including Specifications and Standards.
- Maintain electrical drawings, address customer comments, and update existing drawings.
- Use P&ID drawings, specifications, and AVANTech standards to design electrical systems which are safe, meet code, are acceptable to our customers, and meet AVANTech's quality standards.

- Inspect and test assembled components.
- Coordinate factory acceptance testing of complete systems.
- Address customer inquiries and/or comments.
- Interact with operators, technicians, and engineers to clarify schematics and assembly questions.
- Travel to customer sites, foreign and domestic locations, with no or minimal supervision to complete commissioning in a timely manner.
- Other duties as assigned by management.

What Will Set You Up for Success:

- Adaptability to changing project requirements and schedules.
- Critical thinking with exceptional problem-solving skills, ability to work independently or in a team environment.
- Capability to read and follow electrical diagrams and schematics and mechanical prints.
- Proactive, resourceful and highly motivated with excellent verbal and written communication skills and the ability to work in a high-output environment.
- Must possess excellent interpersonal skills, ability to maintain strong customer relationships.
- Strong knowledge of NEC electrical code.

Requirements:

- Associate or Bachelor Degree in Electrical Engineering or comparable military education
- Minimum three (3) to five (5) years' experience in a related field
- PLC programming experience, preferably with Allen-Bradley RSLogix 500 & 5000
- HMI programming experience, preferably with Allen-Bradley FactoryTalk
- Innovative with strong analytical problem solving and concept design skills
- At least one year of AutoCAD experience

Candidates must be able to pass the drug test, pre-employment physical, and possible background investigation. An elevated level of safe-working practices and procedures awareness is necessary.

To Apply: Send resume, cover letter, and salary history to: swilson@avantechllc.com

AVANTech is an Affirmative Action/Equal Opportunity Employer