

Electrical Design Engineer

AVANTech Incorporated, a rapidly growing technology company with extensive experience in the design, fabrication, and operation of water and wet waste treatment equipment for government and commercial clients, is seeking an experienced and results-oriented **Electrical Design Engineer** interested in joining our team at our facility in **Knoxville, Tennessee**. We are looking for candidates interested in being part of a team, who take pride in their career. AVANTech's diverse product portfolio includes traditional water treatment systems as well as specialized systems for selective removal of radioactivity, boric acid purification, and various contaminant of concern applications. AVANTech has extensive experience in the design and fabrication of modular systems to meet that end.

The Electrical Design Engineer, working closely with the Engineering Manager, will be responsible for the electrical design, PLC, and 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, testing the system prior to shipping, and starting the system up in the field.

This job provides an excellent opportunity to learn about designing water treatment systems with a company using the latest technologies in the field of water treatment.

Job duties:

- Complete electrical system design from concept to commissioning
- 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
- Interact with technicians and engineers to clarify schematics and assembly questions
- Inspect and test assembled components
- Coordinate factory acceptance testing of complete systems
- Address customer comments and concerns
- Interact with operators, technicians, and engineers to clarify schematics and assembly questions
- Travel to customer sites, foreign and domestic locations, sometimes for an extended length of time with minimal or no supervision to complete commissioning in a timely manner
- Other duties as assigned by supervision

Qualifications:

- Associate of Science or Bachelor's Degree in Electrical Engineering
- Innovative with strong analytical problem solving and concept design skills
- AutoCAD experience a plus
- Adaptability to changing project requirements and schedules
- Critical thinking with exceptional problem-solving skills, able to work independently or in a team environment
- Ability to read and follow electrical diagrams, schematics, and mechanical prints
- Proactive, resourceful, and highly motivated with excellent verbal and written communication skills and the ability to work in high output environment
- Excellent interpersonal skills necessary to effectively communicate and work with both internal and external clients
- Ability to develop and maintain strong customer relationships, impacting company sales and profitability
- Capable of critical thinking, long-term system planning, design, and analysis to ensure success of projects
- Ability to create and finalize designs to meet project requirements
- Basic knowledge of NEC electrical codes

Additional preferred skills include:

- PLC programming experience, preferably Allen-Bradley RSLogix 500 and 5000
- HMI programming experience, preferably Allen-Bradley FactoryTalk

At AVANTech we are energetic and passionate about what we do. We seek qualified candidates who share our vision, values and commitment to superior customer service to both our internal customers as well as our external customers.

Candidate must be able to pass drug test. A high level of safe working practices and procedural awareness is necessary.

To apply send resume, cover letter and salary history to:

AVANTech Incorporated
2050 American Italian Way
Columbia, SC 29209
Attn: Human Resources

or

e-mail: dgrant@avantechinc.com

AVANTech Incorporated is an Affirmative Action/Equal Opportunity Employer