

Electrical Design Engineer I

Are you passionate about shaping the future of electrical systems and technology? As a crucial member of our engineering department, the Electrical Design Engineer I role will be responsible for designing and developing electrical systems for a variety of projects. From concept to implementation, you will leverage your expertise to ensure the safety, efficiency, and functionality of electrical components and systems. If you have a strong background in electrical engineering, proficiency in design software, and a drive for innovation, we invite you to apply and contribute to our mission of excellence in electrical design.

About the Company

Connection Technology Center (CTC) is the global leader in the design & manufacture of cutting-edge vibration analysis hardware for machine condition monitoring. As a family-owned & operated business for 30 years, we are proud to play a crucial role in preventing operational disruptions, financial losses, and safety concerns for heavy industry. From small scale manufacturing to Fortune 500 companies in Paper & Pulp, Auto & Steel, Food & Beverage, Pharmaceutical, Mining and many more, our mission is to create products that help ensure seamless operational uptime and contribute to a safer, more efficient manufacturing future.

Main Responsibilities

- Design and develop electrical circuits, ensuring they meet technical specifications and safety standards.
- Create detailed schematics and wiring diagrams for electrical systems.
- Develop and optimize printed circuit board (PCB) layouts for efficient and reliable performance.
- Test and implement firmware in embedded systems.
- Collaborate with cross-functional teams to prototype and test new electrical designs.
- Integrate electrical systems into overall product designs, ensuring seamless functionality.
- Conduct thorough testing and validation of electrical systems to ensure performance and reliability.
- Work closely with other engineering teams, including mechanical and software engineers, to ensure cohesive product development.
- Prepare comprehensive documentation, including design specifications, test procedures, and technical reports.
- Ensure compliance with relevant industry standards and regulations in all electrical designs.

Requirements

- Bachelor's degree in Electrical Engineering, Computer Engineering, or a related technical field.
- 1-2 years of internship experience in electronic design and the electronic circuit assembly processes.
- Experience in the design, repair, and analysis of electronic systems.

Knowledge, Skills, and Abilities

- Strong problem-solving and analytical skills to address challenges in electrical design.
- Flexibility to work in a fast-paced environment and adapt to changing project requirements.
- Capability to conduct thorough testing and validation of electrical systems.
- Ability to prepare comprehensive documentation, including design specifications and technical reports.
- A collaborative mindset and the ability to work effectively as part of a team.
- Excellent verbal and written communications skills.
- Must be able to work individually as well as in a small team environment.

Work Location

This in-person position will work out of the Victor, NY facility.

Salary Range

\$85K - \$90K

Benefits

- Health Insurance
- Dental Insurance
- Vacation Time
- Sick Leave
- Personal Day after one year of employment
- 401K plan with Employer Match
- Summer golf membership to Bristol Harbour Private Golf Course

How to Apply

Please apply here: <https://www.ctconline.com/opportunities/employment/>

Connection Technology Center (CTC) is an equal-opportunity employer. NYS law prohibits discrimination because of age, race, creed, color, national origin, sexual orientation, military status, sex, disability, predisposing genetic characteristics, marital status, domestic violence victim status, carrier status, gender identity, prior conviction records, prior arrests, youthful offender adjudications or sealed records unless based upon bona fide occupational qualification or other exception, or any other protected characteristic as outlined by federal, state, or local laws.

Employee Acknowledgement:

I have received full instruction on the scope and nature of this job description and fully understand my position responsibilities and accept this responsibility and full authority as prescribed.

Employee Print Name

Employee Signature

Date

Approved by: _____

Title: _____

Issue Date: January 2024

Form 6.2.3 Rev (C)