

Test Engineer II

Are you passionate about designing and supporting robust controls systems for product quality validation? As a crucial member of our engineering department, the Test Engineer II designs and supports electrical and electronic control systems used in manufacturing and final acceptance testing. This role works closely with Mechanical Engineering, Electrical Engineering, and Information Systems teams to develop test equipment, troubleshoot complex electrical systems, improve manufacturing processes, and ensure reliable performance of production equipment and products.

The ideal candidate combines strong electrical engineering fundamentals with hands-on experience in industrial controls, automation, instrumentation, and problem-solving within a manufacturing environment.

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 implement automated test equipment and validation systems, particularly for product calibration processes.
- Develop electrical schematics, wiring diagrams, and panel layouts.
- Provide technical support for production equipment, processes, and troubleshooting activities.
- Assist in root cause analysis and corrective actions related to equipment failures and quality concerns.
- Create and maintain electrical drawings, bills of materials, technical specifications, and operating procedures.
- Develop test procedures and work instructions for production use of test equipment.
- Support ISO quality requirements, company documentation standards, and other regulatory requirements pertaining to test equipment.

Knowledge, Skills, and Abilities

- Strong problem-solving and analytical skills to address challenges in electrical & test systems 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.
- Strong proficiency in MATLAB, understanding of LabView preferred.
- Experience working with NI modules and systems, particularly CRIO.

Requirements

- Bachelor's degree in Electrical Engineering, Controls Engineering, or a related technical field.
- 2-3 years of experience in electronic design and electronic circuit assembly processes.
- Experience in the design, repair, and analysis of electronic & calibration systems.

Work Location

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

Salary Range: Starting at \$75,000 annually. Relevant experience and qualifications will be taken into consideration

Benefits

- Health Insurance
- Dental Insurance
- Vacation Time
- Sick Leave
- 401K plan with Employer Match
- Summer golf membership to Bristol Harbour Private Golf Course

How to Apply

Please apply here: <https://ctconline.com/opportunities/careers-at-ctc/>

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.