

## **Mechanical Engineer I**

Do you have a passion for mechanical engineering and a drive to make a difference? Kickstart your career with us at CTC, where you'll have the opportunity to apply your knowledge and skills to real-world projects that shape the future. We're seeking an entry-level Mechanical Engineer to join our team and grow alongside experienced professionals in a supportive and dynamic environment. If you're eager to learn, ready to take on new challenges, and excited to make your mark in the field of mechanical engineering, we want to hear from you. Apply now and jumpstart your career with us.

### **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 analyze mechanical systems, components, and processes, ensuring they meet safety, quality, and performance standards.
- Collaborate with cross-functional teams, including electrical engineers, software developers, and project managers, to deliver integrated and efficient solutions.
- Utilize engineering principles and software tools to create detailed designs, specifications, and documentation for manufacturing and assembly.
- Conduct feasibility studies and cost analyses for proposed projects, providing recommendations for optimization and cost-effectiveness.
- Perform testing, validation, and troubleshooting of mechanical components and systems to ensure they meet design specifications and requirements.
- Stay current with industry trends, new technologies, and best practices to contribute to continuous improvement and innovation.
- Participate in project planning, scheduling, and coordination activities to ensure timely and successful project completion.
- Collaborate with suppliers and vendors to source materials, components, and equipment required for projects.
- Provide technical support and expertise to other departments as needed.

### **Requirements**

- Bachelor's degree in mechanical engineering or related field required.
- Category I Vibration Analysis certification preferred, can be obtained on the job.
- Professional Engineer (PE) license is a plus.
- Knowledgeable in mechanical drawing/drafting for the creation of digital images.
- Proven experience in mechanical engineering, with a focus on design, analysis, and testing.

## Knowledge, Skills, and Abilities

- Intermediate knowledge of Microsoft Office including Word, Excel, and PowerPoint.
- Basic knowledge of Autodesk Inventor or other 3D CAD system.
- Proficient in CAD software (e.g., SolidWorks, AutoCAD) and other relevant engineering tools.
- Ability to research and develop new technology.
- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Ability to work independently and collaboratively in a team environment.
- Knowledge of industry regulations and standards.
- Ability to meet deadlines and Project management.
- Perform Verification and Validation testing.
- Ability to present technical concepts to leadership both verbally and written.

## Work Location

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

## Salary Range

\$75K - \$80K

## 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.

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Employee Print Name	Employee Signature	Date
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Approved by: \_\_\_\_\_  
Title: \_\_\_\_\_

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