

Machine Design Engineer

Job description

Introduction

e-TRNL Energy is a fast-growing startup based in Bangalore, focused on developing next-generation energy solutions. We're on a mission to drive innovation in battery technology while building a workplace that values collaboration, agility, and impact.

We are currently expanding our team and strengthening the foundations of our operations. We're looking for energetic professionals who thrive in dynamic environments and want to contribute meaningfully to our growth journey.

Join us at e-TRNL Energy and be part of a company that's not just building advanced technology, but also shaping a vibrant and purpose-driven culture.

Who are you:

An ideal candidate has a sound knowledge of machinery standards and is a proficient to design components and machine structure and processes to complete exact tasks that are used for rolling out products, in this case cells and batteries and its components. Subsequently, the candidate must have a penchant for exploring designs that solve manufacturing problems.

Qualifications, education and/or experience:

- B.E./B.Tech. or M.E./M.Tech. in Mechanical/ Design
- 2+ year work experience in relevant field
- Strong skills in designing safe machines
- Proficiency in engineering design and machine design
- Strong Knowledge of fabrication techniques as well as GD&T is a must
- Ability to play with 3D parametric design software (Inventor, Solid works, NX etc.) and use it as a tool to create objects from concepts is a must
- Proficient with Microsoft office suite
- Must have inherent problem-solving skills
- Strong communication skills
- Knowledge of CFD analysis is a plus

Essential Duties and Responsibilities:

- Design and develop new mechanical equipment and machinery
- Create detailed technical drawings and specifications using CAD software
- Conduct feasibility studies and cost analyses for new designs
- Collaborate with other engineers and manufacturing personnel to optimize designs
- Test and evaluate prototypes to ensure performance and safety
- Analyze and solve design-related issues during the manufacturing process
- Maintain and update technical documentation and design records
- Ensure that designs comply with industry standards and regulations

- Utilize FEA (Finite Element Analysis) tools to simulate stress and strain
- Participate in design reviews and provide constructive feedback
- Implement design modifications based on testing results and feedback
- Coordinate with suppliers to source materials and components
- Stay current with advancements in mechanical design and engineering technology

Job Types: Permanent,

Pay: As Per Industry standards

Benefits: Health insurance

Office location: Whitefield, Bengaluru