



Leesona Corp  
2727 Tucker St, Burlington, NC 27215  
[careers@leesona.com](mailto:careers@leesona.com)  
Ph: 336-226-5511  
Fax: 336-229-4381

PRECISION DESIGN. ENDURING PERFORMANCE.

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Basic Info:

<i>Role title</i>	Mechanical Design Engineer
<i>Function</i>	Engineering
<i>Industry</i>	Specialty Textiles Machine Manufacturing
<i>Location</i>	Burlington, NC (on-site)

About Us:

LEESONA has engineered and manufactured fiber winding, take-up equipment, and much more for 130 years with our products installed in more than 50 countries worldwide. From manmade fibers for the aerospace industry to home furnishings, apparel, and industrial yarn applications, Leesona develops propriety processes to address its customers' wide spectrum of winding requirements. Leesona serves the global textile market with particular emphasis on the technical textile industry. To meet the demands of the technical textile industry, Leesona designs and manufactures winding equipment that effectively handles almost any synthetic fiber.

Job Description:

We are looking for a full-time mechanical design engineer as an addition to the engineering team, contributing to the design of new cutting-edge products and updating designs on legacy machines. To be successful in this position, you should have hands-on experience using CAD software for engineering design, and mechanical aptitude.

Key Responsibilities:

- Design, develop, evaluate, and implement new products required for the company.
- Contributes to R&D for new product development, upgrades on functionality, and improvements to safety, quality, and performance.
- Responsible for design documentation on requirements specification, engineering analysis, drawings, test plans/procedures, assemblies, products to production, and production start-up support.
- Prepare the bill of materials for sub-assemblies of the project assigned.
- Supports the manufacturing engineering team in troubleshooting and resolving issues discovered during production.
- Supports the sales and marketing team with the quoting process.
- Awareness of technical developments in the mechanical field through literature, technical contacts, and industry competition.
- Pick out the best practices in mechanical design analysis, modeling, and tolerance analysis to produce a highly viable mechanical model.
- Performs other engineering duties as assigned.



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Competencies:

- Good understanding of mechanical design & drafting standards
- Proficiency in SolidWorks, Autodesk Inventor, AutoCAD
- Comfortable working with both imperial and metric systems
- Excellent oral and written communication in English
- Collaborative work ethic in both virtual and in-person settings
- Attention to detail
- Functional aptitude for engineering design for manufacturability and assembly
- Can work with ambiguity and minimal supervision
- Adaptability to evolving business priorities
- Up to 20% domestic and 5% international travel

Education & Experience:

- Degree in Mechanical Engineering or an equivalent qualification
- Proven experience using CAD software for engineering design
- Previous experience in design layouts and 3D modeling
- Previous experience using ERP and BOM systems
- Experience in developing products from the concept stage through prototyping, final design, and manufacturing is preferred
- Experience with structural FEA analysis is a plus
- 3 to 5 years of relevant professional experience