



**JOB TITLE: Senior Mechanical Design Engineer**  
**REPORTS TO: Robotic Automation Business Development Manager**  
**JOB TYPE: Full Time**  
**LOCATION: Monroe, NC**

Spiroflow Systems, Inc. is a worldwide supplier of both standard and custom powder handling equipment, robotic automation, and automatic packaging solutions. Our robotic automation business provides complete bag palletizing, case packing, and carton loading automation solutions.

We currently have a senior mechanical design engineering opportunity within our robotic automation business at our corporate headquarters in Monroe, NC. Our employees earn competitive salaries and enjoy a comprehensive benefits package including medical, dental, vision coverage, life insurance, generous vacation days and a 401(k) plan.

### **Senior Mechanical Design Engineer**

The Mechanical Design Engineer uses technical expertise, creativity and innovation to design and develop robotic end-of-line packaging and palletizing solutions from the conceptual design stage through to production in a fast-paced, multi-disciplined team setting, meeting quality, performance, cost, and schedule goals. In addition, our selected candidate will help develop design standards and assist with guiding and mentoring junior design engineers.

#### **Responsibilities:**

- Analyzes customer's requirements and company proposed solutions in order to design creative and cost-effective solutions that achieve optimal performance.
- Produce working drawings, detail drawings and bills of materials for equipment, sub-assemblies or product using AutoCAD and SolidWorks.
- Requisition components for projects.
- Provide project management.
- Develop standard designs.

#### **Experience and Skill Requirements:**

- A solid foundation of mechanical engineering, with 5 years of experience designing complex electro-mechanical projects including Design for Manufacturing and Assembly (DFMA).
- A high level of proficiency with 3D parametric CAD modeling software such as Inventor, Solid Works, and/or Solid Edge.
- Understanding of machine shop tools: engine lathes, vertical milling machine, sheet metal forming, welding technologies, MIG, TIG, measuring equipment, and machine shop practices.
- Practicing knowledge of machine design materials: plastics, low and high carbon steels, various aluminum alloys, stainless steels, carbon composites, etc.
- Knowledge of food and dairy wash-down requirements a plus.
- Experience with BOM generation, and use of MRP/ERP systems.

- Effective verbal and written communication skills.

**Education Requirements:**

The candidate must have a BS in Mechanical Engineering or equivalent.

To apply, please complete the short 3 part application process. Click here to apply:

<https://ciims.cindexinc.com/job/4aeb2f>

*It's the chance to collaborate with bright, passionate people. It's contributing to products that make a difference. And it's being part of a company with an incredible commitment to doing the right thing – for each individual, our customers, and the local community.*

**Contact:** Mathias Lee  
**Spiroflow Systems, Inc.**  
1609 Airport Road  
Monroe, NC 28110  
  
704-246-0978  
mlee@spiroflowsystems.com