

Product Development Engineer



Description

Clean Logix, a food safety solutions company in Grand Rapids, Michigan, is hiring a Product Development Engineer. This role will be responsible for the complete lifecycle of new products, from initial concept to final production. The role also includes supporting current products by developing new versions and making design changes to improve quality, lower costs, and enhance usability. Reporting to the Director of Product Management, the Product Development Engineer will work with the team to ensure development aligns with engineering and business goals. Clean Logix focuses on designing, manufacturing, and supporting sanitation equipment to improve food safety through enhanced quality, reliability, and performance.

Job Responsibilities

- Collaborate with teams to align on new product development strategies and achieve company objectives.
- Generate innovative product concepts and designs using brainstorming, sketches, 3D CAD models (SolidWorks), and physical prototypes.
- Utilize SolidWorks CAD software and associated add-ons (PDM, Simulation, VisualCAM) for design and documentation.
- Create designs that effectively balance aesthetics, chemical compatibility, cost-effectiveness, sanitary considerations, ergonomics, and performance requirements.
- Design products with a focus on manufacturability, considering cost, performance, and in-house process feasibility.
- Conduct competitive analysis and benchmark existing products to identify areas for enhancement.
- Incorporate customer feedback gathered from sales and customer service teams into product improvements and updated designs.
- Conduct field visits to understand product usage and operational conditions firsthand.
- Develop and execute experimental designs and testing methodologies to validate product performance against established benchmarks.
- Conceptualize and design new products that meet specified design requirements, cost targets, and relevant regulatory standards.
- Partner with the Manufacturing Engineer to develop robust manufacturing processes and quality control measures for new and existing products.
- Maintain accurate and up-to-date Bills of Materials (BOMs) for assemblies and all relevant supporting documentation (CAD drawings, ERP system data).
- Establish and maintain clear and comprehensive part specifications and revision control for manufacturer parts to support purchasing activities.



Job Qualifications and Skill Sets

- Bachelor's Degree in Mechanical Engineering or related field
- 5+ years of experience as a product development engineer
- 3+ years of SolidWorks experience. Strong 3D modeling skills and proficiency with SolidWorks sheet metal features.
- Experience in design for injection molding, and/or rotomolding
- A deep understanding of manufacturing processes including; plastic fabrication, 3 axis CNC router or CNC mill, TIG welding, passivation and bead blasting of stainless steel, electrical panel assembly and wiring, and various light assembly operations
- Knowledge of pipe fittings, piping sizes, fluid dynamics, and material compatibility
- Creative problem solver who enjoys building things and bringing ideas to life
- Self-motivated and organized work style with attention to detail
- Experience with Microsoft Office including Excel and PowerPoint (or Google Sheets and Slides)
- Effective communication and interpersonal skills.
- Must have the current and continuing right to work in the United States of America without sponsorship
- Able to read/write and converse fluently in English

Benefits

- This is a full-time, on-location position.
- Monday-Friday, 9:00 a.m. to 5:00 p.m. (40 hrs. per week)
- Salary based on experience level
- Medical, dental, and vision insurance (eligible after 90 days)
- 401(k) plan with matching (eligible after 90 days)
- Paid time off, vacation and sick days (eligible after 90 days)



www.clean-logix.com

hr@clean-logix.com

616.438.9200

Clean Logix
4928 W Greenbrooke Dr.
Grand Rapids, MI 49512