



Aprisium Pte Ltd

UEN: 202143129M

84 Toh Guan Road East, Singapore Water Exchange #03-06, Singapore 608501.

Job Description: Advanced Manufacturing Engineer

Position: Advanced Manufacturing Engineer

Location: Singapore

Company: Aprisium Pte Ltd

About Aprisium

Aprisium is a cutting-edge deep tech startup focused on providing real-time, autonomous contamination detection and monitoring solutions. Our IoT-enabled, autonomously functioning analyzers are revolutionizing the environmental sustainability space by offering continuous and precise water quality monitoring at the source. With our commitment to innovation and sustainability, we are expanding our engineering team to drive the design, development, and manufacturing of our next-generation analyzers.

Position Overview

As an Advanced Manufacturing Engineer, you will play a key role in the design, development, and manufacturing of Aprisium's IoT-enabled, autonomously working analyzers. You will be responsible for taking these innovative products from concept through design, prototyping, testing, and large-scale manufacturing. Your expertise will ensure that our devices are manufactured efficiently, maintaining high quality while adhering to Aprisium's goals for sustainability and operational excellence.

Key Responsibilities

- **Design and Development:**
 - Lead the design, development, and optimization of Aprisium's IoT-enabled analyzers, ensuring manufacturability and scalability.
 - Work closely with the product development and R&D teams to convert prototypes into fully manufacturable designs.
 - Develop product design specifications, selecting appropriate materials and components for robust, long-term field operations.
 - Create detailed mechanical and electrical designs using CAD tools and simulation software.
- **Manufacturing Process Development:**
 - Develop and refine manufacturing processes for Aprisium analyzers, focusing on IoT integration and autonomy capabilities.
 - Establish efficient production methods, including automation, lean manufacturing, and Six Sigma principles to ensure high throughput and quality.
 - Identify and select manufacturing partners and suppliers, overseeing procurement of parts and materials.
 - Collaborate with engineering and supply chain teams to optimize assembly processes, minimizing waste and ensuring environmental sustainability.

- **Quality Assurance and Testing:**
 - Ensure all products meet high-quality standards through rigorous testing and validation processes.
 - Design and implement testing protocols for both prototype and production units, ensuring compliance with industry regulations.
 - Continuously monitor production for improvement opportunities, driving process improvements to enhance reliability and performance.
- **Product and Technology Innovation:**
 - Stay updated on the latest advancements in IoT, autonomous systems, sensors, and smart manufacturing techniques.
 - Work on integrating advanced IoT sensors and communication technologies into Aprisium's analyzers for real-time monitoring and data analytics.
 - Collaborate with the R&D team to innovate and improve product designs for future generations of Aprisium analyzers.
- **Sustainability and Cost Optimization:**
 - Focus on designing products and processes that align with Aprisium's commitment to environmental sustainability.
 - Analyze cost structures and implement strategies to reduce production costs while maintaining high-quality output.
 - Work on minimizing the environmental impact of the manufacturing process by exploring sustainable materials, energy-efficient manufacturing practices, and waste reduction strategies.

Key Qualifications

- Bachelor's or Master's degree in Mechanical Engineering, Manufacturing Engineering, Mechatronics, or a related field.
- 5+ years of experience in advanced manufacturing, preferably in IoT-enabled or autonomous systems.
- Proven experience with CAD software (SolidWorks, AutoCAD, etc.) and simulation tools.
- Expertise in IoT technology integration, sensor systems, and autonomous device manufacturing.
- Solid understanding of manufacturing processes such as CNC machining, injection molding, and electronic assembly.
- Experience in lean manufacturing, Six Sigma, and process optimization.
- Strong project management skills and the ability to lead cross-functional teams.
- Knowledge of sustainability principles in manufacturing, including green manufacturing practices.
- Excellent problem-solving skills, attention to detail, and the ability to work in a fast-paced startup environment.
- Familiarity with quality control methodologies and regulatory standards for environmental monitoring devices.

Why Join Aprisium?

- Be part of a dynamic and innovative team that is pioneering the future of environmental sustainability through IoT technology.
 - Work on cutting-edge products that make a real impact in water quality monitoring and sustainability initiatives.
 - Opportunity to grow within a fast-moving, ambitious startup with a strong focus on sustainability and profitability.
 - Competitive salary and benefits package.
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How to Apply

If you're passionate about advanced manufacturing, sustainability, and cutting-edge IoT technologies, we'd love to hear from you! Please send your CV and cover letter to Larshenrik@aprisium.com