

# Product Development Engineer

## OPPORTUNITY

Ainira Industries is currently seeking applicants for Product Development Engineer for its growing verticals, as the Company is building a world class engineering team focused on innovation and execution.

## JOB DESCRIPTION

Reporting to the Director of Engineering, the Product Development Engineer will work closely with Industrial Design, Electrical, Mechanical, Electronics, Systems and Software Engineers, Validation and Qualification, and Production teams. This is a hands-on role requiring adaptive thinking, initiative, and collaboration in a cross-disciplinary, dynamic and motivated environment. You will design system-wide perspective for multiple simultaneous projects from design concept through to production.

## RESPONSIBILITIES

- Support the Company's long-term strategy for Electric Vehicles and Space/Aerospace divisions
- Provide strategic product engineering direction and thought leadership based on global best practice and trends, and identify, establish and operate technology assets that accelerate product development
- Research design options, review and evaluate product quality, cost effectiveness, and manufacturing performance to standards, and take action as necessary to correct variances
- Experience in state-of-the-art design and development processes, including Robust Design Principles, Design for Manufacture, Design for Assembly, and Failure Mode and Effect Analysis (FMEA)
- Drive initiatives and collaborate across the organisation and with the peer across the industry to introduce and adopt new technologies to enable efficiencies or new opportunities
- Liaise with suppliers to ensure engineering product design, redesign, and customisation specifications are built to the highest standards
- Work collaboratively with engineering design and process architecture teams to create engineering timelines, assist in project planning and reporting, mature delegation of product development decisions
- Development design for the creation of market disrupting products, including concept planning and development for new technologies and systems, and product enhancements
- Detailed design and technical specifications/procedures writing of complex electro-mechanical systems
- Coordination, delivery, installation, and commissioning of equipment and systems, and building prototypes for proof of concept and usability testing
- Attending meetings: design review, cost analysis, quality assurance and control, product validation, usability testing, supply chain, product packaging, and pre-production and manufacturing liaison

- Project management of design and development, oversee the production of rapid prototypes and tooling

### **SKILLS and ABILITIES**

- BSc in Mechanical, Mechatronics, Production/Process Engineering, or equivalent degree is required
- 5 years-plus in product design and development from concept through to production ready stage
- CAD proficiency using Catia and SolidWorks, FEA using Ansys Multiphysics and Ansys CFD desired
- Design experience in consumer electronics products, IoT/IIoT, appliances and medical devices, and integration of electronics and sensors into new product developments
- Working knowledge of PBC design and layout, EMC and safety certifications, and heat management
- Knowledge of plastic injection moulding and the composite materials, metal parts fabrication/casting
- Intimate understanding of design control, and validation and verification processes under a Quality Management System for high volume assembly and design for manufacturing
- Good administration, document control, and tracking skills, with demonstrated high degree of initiative, creative problem solving, and attention to detail
- Thrive on solving challenges both personally and as a member of the team in a modern product development environment
- Outstanding communications skills a must – succinct and to the point in one-on-one, small group, and public speaking events for a variety of content (e.g. presentations, proposals, strategies etc.)
- Demonstrated ability to balance competing priorities effectively and to produce quality work within tight time constraints and a defined procedural framework

### **COMPENSATION**

Company offers competitive compensation and benefits package.

### **APPLY**

Click "Apply" below or use form in the Contact section – quote the reference number HR-ENG-0035. Only the shortlisted candidates will be contacted. Thank you for your interest.

Recruitment agencies, please note that no agency candidates will be accepted.