

# Automotive Design Engineer

## OPPORTUNITY

Ainira Industries is currently seeking applicants for Automotive Design Engineer for our Intelligent Vehicles division. We are looking for a highly intelligent and confident senior engineer with a keen eye for automotive design and a style that fosters innovation, collaboration, and accountability.

## JOB DESCRIPTION

Reporting to Engineering Manager, the Automotive Design Engineer plays a key technical role in the Electric Vehicles division. You will be a qualified engineer with automotive product/ component development and quality experience who will share our energy and passion, and who wants to further develop their career in a very different environment where diversity encouraged and thinking differently is a pre-requisite.

Through the products we design, produce, and launch, we are building long term relationships with our customers, delivering highly scalable solutions and services that make a real difference to all our stakeholders. At Ainira Industries, all major technologies and game-changer components are innovated, designed, and manufactured in house. As a member of the High-Tech Design Centre, you will contribute to the planning, design, and development of Ainira's novel Electric SUV – the ARO Intelligent Vehicle.

## RESPONSIBILITIES

- Support the company's long-term strategy for Electric Vehicles and Space/Aerospace divisions by identifying, establishing, and operating technology assets that accelerate product innovation
- Ensure engineering product design and specifications are built to the highest standards, and provide strategic product engineering direction based on global best practice and trends
- 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
- Reviews and evaluates product quality and continuous improvement of automotive components and mechanisms, cost effectiveness, and manufacturing performance to standards
- Work collaboratively with engineering design and process architecture teams to mature delegation of battery module new product development (NPD) decisions
- Generation of 3D models and drawings for whole of vehicle ruggedized design for harsh environments, with emphasis on powertrain components (current and new technologies) and their integration
- Designing form concept through to production of motor's mechanical package, and conducting FEA and CFD analysis for mechanical integration of electrical and magnetic components
- 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)
- Perform feasibility studies and participate in manufacturing/field trials for issues identification
- Maintaining awareness of the competitive market landscape, and industry expansion opportunities
- Assessing risks to the company and ensuring they are monitored and managed/minimised

## **SKILLS and ABILITIES**

- BSc/MSc in Electrical/ Mechanical/ Mechatronics/ Production Engineering, or equivalent is required
- 10+ years' of relevant experience in challenging engineering roles, with 5 years-plus successfully bringing high volume electromechanical products to mass production
- Demonstrated track record of developing and launching successful, innovative products; has a thorough understanding of a variety of manufacturing processes and how they affect design decisions
- CAD proficiency using Catia and SolidWorks, and FEA using Ansys Multiphysics and Ansys CFD
- Understanding of plastic injection moulding, and knowledge of working with the composite materials
- Proven ability in product development from concept through to production ready stage
- Intimate understanding of design control, and validation and verification processes under a Quality Management System
- 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.)

## **COMPENSATION**

Company offers competitive compensation and benefits package.

## **APPLY**

Click "Apply" below or use form in the Contact section – quote the reference number HR-EVS-0031. Only the shortlisted candidates will be contacted. Thank you for your interest.

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