

Aircraft Propulsion Engineer

OPPORTUNITY

Ainira Industries is currently seeking applicants for Aircraft Propulsion Engineer for its growing Space and Defence division – a highly knowledgeable and confident senior engineer with a keen eye for design and a style that fosters innovation, collaboration, and accountability.

JOB DESCRIPTION

Reporting to the Global Head of Engineering, the Design Engineer within the young and passionate Propulsion Engineering team at Ainira will be responsible for the Aircraft Engine CAE numerical modelling and simulation, and CAD concepts, models, drawings, technical improvements, and testing of prototypes.

You will bring to the table a deep understanding of aerospace manufacturing technology and the passion to develop high quality products in an agile and fast paced environment. As required by the current programs, you will be thinking commercially, operating collectively, and driving execution by optimising and enabling talent within the group and across Company's DeepTech, e-Mobility, and Sustainable Energy divisions.

Known in the industry for rapidly developing cost-effective solutions from the ground up, Ainira Industries believes in giving highly skilled engineers ownership of complex space and aerospace systems from start to finish, which offers them the satisfaction of moving from the simulation and design to hands-on working, building, testing and, ultimately, flying their creations.

The novel Aircraft Engine currently in development at Ainira Space and Defence is all about safety, speed, and efficiency. There is little challenge for us, though, as the project is similar to other innovative solutions to ambitious aerospace problem we had provided for the likes of DARPA and other technically and security clearance demanding customers.

Through the products we are designing, manufacturing, and launching commercially, we are building strong long-term relationships with our customers, delivering scalable solutions and services that make a real difference to all our stakeholders.

RESPONSIBILITIES

- Identify, establish, and operate technology assets that accelerate product development in support of the Company's long-term innovation and commercialisation strategy for Space/Aerospace and Defence
- Identify, establish and operate technology assets that accelerate product and innovation, and ensure engineering product design and specifications are built to the highest standards
- Reviews and evaluates product quality, cost effectiveness, and manufacturing performance to standards and takes action as necessary to correct variances
- Work collaboratively with the Defence Innovation Manager and engineering design teams to mature delegation of architecture and engineering decisions

- Maintaining awareness of the competitive market landscape, expansion opportunities, industry developments etc.
- Provide technical leadership and resources with engineering and manufacturing expertise to peers in order to coach and uplift the capabilities (development, operations) of each product engineering team
- Prepare and arrange reports, budgets and forecasts and presenting them to governing bodies

SKILLS and ABILITIES

- BSc/MSc in Aerospace, Electric, Mechanical, Production/Process Engineering or equivalent is required
- 7 years-plus successfully bringing high volume engines, motors, propulsion systems, and other electromechanical products to mass production
- Strong knowledge and expertise with FEA, SolidWorks Simulation Pro or Premium, SolidWorks FLOW simulation or equivalent (e.g. Creo, Catia, ANSYS Multiphysics and CFD, Fluent, CFX, STAR-CCM)
- Experience using high-end CAD and PDM packages (or comparable industry standards) with emphasis on model interrogation and defeaturing for subsequent analyses
- 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
- Proven expertise in accurate prediction of component life and structural margins, including ductile metal fracture, composite materials failure, fatigue fracture, and linear and non-linear buckling (shell buckling)
- Working knowledge of best practices in design, structural analysis, and testing of composites (laminated design, joint design, materials characterisation, environmental effects)
- Familiarity with non-linear material simulation, including metal plasticity, elastomers, and adhesive joints
- Ability to collaborate in a team environment, and comfortable driving multiple initiatives at a rapid pace
- Capable of working with multiple cross-functional teams in all project activities for multiple concurrent projects necessary for the successful commercial launch of new products
- Proven high degree of initiative, creative problem solving, attention to detail, and calm under fire
- Outstanding communications skills a must, and desirable product development management skills
- Excellent computer and MS Office skills to report in a variety of formats

COMPENSATION

The Company offers a competitive compensation and benefits package.

APPLY

Click "Apply" below or use form in the Contact section – quote the reference number HR-SDA-0004. Only the shortlisted candidates will be contacted. Thank you for your interest.

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