



AEROMOBIL

JOB DESCRIPTION

POSITION:

Chief Engineer – Avionics and Flight Controls

REPORTING TO: Head of Vehicle Engineering

Job Purpose

The Chief Engineer Avionics and Flight Controls contributes to the overall success of the organisation by effectively managing all avionics, road vehicle electronics and flight controls matters.

Primary Duties and Responsibilities

The Chief Engineer Avionics and Flight Controls is a key member of the technical management team reporting to the Head of Vehicle Engineering and performs a wide range of duties including some or all of the following:

Business

- Facilitate the creation and detailing of our technical supplier partnerships as they pertain to avionics and flight controls in all forms & types.

Engineering

- Creation of engineering vision and departmental targets within his/her functional responsibility.
- Internal and external communication with regard to all aspects of engineering activities including technical presentation of engineering activities to Type approving bodies and agencies.

- Definition of the all avionics and flight controls activities associated to product definition/ specification, taking into account legal and internal targets, authoring final documentation and implementing requirements into design validation programs.
- Manage the team responsible for all areas of propulsion design and product creation including:
 - Overall vehicle avionics and flight controls formulation & specification.
 - Complete appraisal and incorporation of EASA and equivalent road vehicle electronics and controls performance requirements into AeroMobil propulsion specifications and engineering planning activities.
 - Coordinate within the team the creation and management of all data in support of the concept, engineering and validation of all vehicle propulsion systems and their interactions. To include:
 - All 2D, 3D data associated to components, systems and supporting products.
 - All Specifications and systems documentation
 - FMEA documentation.
 - Complete Engineering reports required to support product release.
 - Bill of Material and PLM data for all components and systems.
 - Ensure that all statutory requirements of the organization and product are met.

External Body Interface Activities

- With the compliance and airworthiness function coordinate all engineering communication with external technical authorities and bodies ensuring all information is appropriate and accurate and follows company policies.

System Based Vehicle Optimisation

- Act to guide the propulsion team in the optimisation and specification of all engineering systems and components in line with the business goals and project targets.
- As part of the technical management team, coordinate with the head of development, head of computational analysis and project manager all activities affecting the timely delivery of all business activities.

Vehicle Cost Coordination

- Together with Finance team establish budgetary and forecast information for vehicle material costs and investment costs, maintaining its accuracy within company systems to allow other functions to disseminate and analyse implications.

Engineering Timing Coordination and Management

- Together with the Head of Vehicle Engineering and Project Manager, plan all avionics and flight controls engineering activities in line with business milestones, maintaining accurate component and tooling lead times for each component/ system and ensuring timely release of all designs to meet the project goals.

Team Creation, Motivation and Development

- Act with the rest of the senior management team to create a motivated, empowered workforce that meets the highest standards of openness and honesty.
- Work with the HR function to plan and develop the skills and capabilities of the team to deliver all core functions both now and in the future.

Vision and Future Planning

- Stay abreast of all technologies and developments in the fields of automotive and aerospace and disseminate such data frequently to the rest of the business allowing timely reaction to new opportunities and risks.

Qualifications

Education

- Higher university degree in an advanced engineering discipline relating to electrical or avionics systems for either aerospace or road vehicles.

Professional designation

- The candidate would benefit from holding a professional accreditation as recognized by EASA within an equivalent technical business. Consideration will be given to candidates who have held senior positions in larger organisations where equivalent responsibility is clearly evident.

Knowledge, skills and abilities

- Significant knowledge of aerospace and or automotive electronics or avionics development practices and technologies.
- Experience, allowing the individual to help the wider business team to plan and execute product development activities with the right level of rigor and focus, maintaining at all times the business object to put safety first.
- Knowledge of EASA certification procedures CS 23 or CS25.

- Detailed knowledge of world automotive electrical and electronic standards and technologies, emissions standards and durability requirements.
- Capabilities in the coordination of a wide range of disciplines and activities associated to safety critical systems and products.

Proficiency in the use of computer programs for

- Engineering Design, Analysis and reporting, Word processing, Databases, Spreadsheets, E-mail, Internet

Personal characteristics

The Chief Engineer – Avionics and Flight Controls should demonstrate competence in some or all of the following:

- Focus on the clear business goals of safety and reliability in everything we do.
- Behave Ethically: Understand ethical behaviour and business practices and ensure own behaviour and the behaviour of others is consistent with these standards and aligns with the values of the organization
- Build Relationships: Establish and maintain positive working relationships with others both internally and externally to achieve the goals of the organization.
- Communicate Effectively: Speak, listen and write in a clear, thorough and timely manner using appropriate and effective communication tools and techniques.
- Foster Teamwork: Work cooperatively and effectively with others to set goals, resolve problem, and make decisions that enhance organizational effectiveness.
- Lead: Positively influence others to achieve results that are in the best interest of the organization.
- Make Decisions: Assess situations to determine the importance, urgency and risks, and make clear decisions which are timely and in the best interests of the organization
- Organize: Set priorities, develop a work schedule, monitor progress towards goals, and track details, data, information and activities.
- Plan: Determine strategies to move the organization forward, set goals, create and implement actions plans, and evaluate the process and results.
- Solve Problems: Assess problem situations to identify causes, gather and process relevant information, generate possible solutions, and make recommendations and/or resolve the problem.

Experience

Ideally 10+ years of progressive, world class electronics or avionics engineering business where responsibility included supervising engineering and business activities.

Working Conditions

- Chief Engineer – Avionics and Flight Controls works in an UK and Slovak office, development workshop and production facility environment in the successful completion of their tasks.
- Chief Engineer – Avionics and Flight Controls usually works a standard work week but can be asked to work longer hours when timing requires as well as working at partner facilities during periods no longer than 1 consecutive calendar month.

Other Information

- Advantage: experience in automotive / aviation industries, experience of European and Federal aviation authorities, their standards and practices.
- Selection process: CTO & Head of Vehicle Engineering
- Compensation package: negotiable depending on candidate skills and knowledge