

Mechanical Design Engineer

Introduction

Saab in UK is growing rapidly, with over 500 colleagues across eight sites. We bring together Swedish heritage and British expertise to drive innovation in areas such as software engineering, underwater robotics, radars, AI, and armed forces training. Joining Saab in UK means contributing to the security and resilience of society while building a career with real scope for personal and professional growth.

What you will be part of

Explore a wealth of possibilities. Take on challenges, create smart inventions, and grow beyond. This is a place for curious minds, brave pioneers, and everyone in between. Together, we achieve the extraordinary, each bringing our unique perspectives. Your part matters.

Saab is a leading defence and security company with an enduring mission, to help nations keep their people and society safe. Empowered by its 26,000 talented people, Saab constantly pushes the boundaries of technology to create a safer and more sustainable world.

Saab designs, manufactures and maintains advanced systems in aeronautics, weapons, command and control, sensors and underwater systems. Saab is headquartered in Sweden. It has major operations all over the world and is part of the domestic defence capability of several nations. *Read more about us [here](#).*

The role

This role is part of Saab Bluebear Business in Bedfordshire. Your role as a Mechanical Design Engineer (Aero) will be to support Head of Engineering on multidisciplinary design challenges involved in the development of unmanned systems. This represents an exciting opportunity to provide technical leadership of innovative products including requirement management, design, integration, manufacturing and testing.

Key Responsibilities

- Day-to-day CAD design and management of multidisciplinary design requirements.
- Experienced solidworks user, solid modelling, surfacing, assemblies, detailing, BoM creation.
- First-pass analysis (basic FEA, basic CFD) of implementable design solutions using analysis suites as part of CAD packages (preferably solidworks).
- Technical management of specific project WPs including task allocation and resource management.
- Define the design, integration and test activities during development of both R&D and product contracts.
- Product design innovation, based on research into technical plans for prototypes using Computer Assisted Engineering (CAE) and Computer Aided Manufacturing (CAM) software.
- Select suitable manufacturing methods for rapid prototyping, incl. wet-layup for developmental composite parts.
- Select suitable manufacturing methods and materials for metallic containers and structures.

- Preparing user requirements, concept of operations (CONOPS), technical specifications, design specifications, product specifications, commissioning plans, DFMEAs and risk assessments.
- Payload integration, with understanding of impacts on aircraft performance and of holistic optimisation at aircraft design stage.
- All-Electric Propulsion System integration into new or existing airframes (incl. eVTOL)
- Understanding of customer requirements, challenges and expectations.
- Explore new technology trends and apply in appropriate scenarios to deliver value to team, customer and Organization.
- Work with wider project delivery teams to develop on-time, on-budget solutions.
- Technical Point of Contact and liaison for key Suppliers/Partners.
- Conducting timely reviews with team members on the work assigned and resolve if there are any issues / concerns on the deliverables.
- Ensure quality of deliverables to the satisfaction of the customer.
- Responsible for WP adherence to schedule, costs and review of risks.
- Assist Program Manager in estimation, dependency identification, developing project plan and tracking the progress.

Other Duties and Responsibilities

- To undertake such other duties and responsibilities as may be reasonably required within the grade and level of the post.
- You will be expected to perform different tasks as necessitated by your evolving role within the company and the overall business objectives of the company. Some travel within the UK may be required.

Job application link:

https://saabgroup.wd3.myworkdayjobs.com/Broadbean_Saab/job/Bedfordshire---Unit-4-Highfield-Park-Highfield-Road-Oakley/Mechanical-Design-Engineer_REQ_38233-1