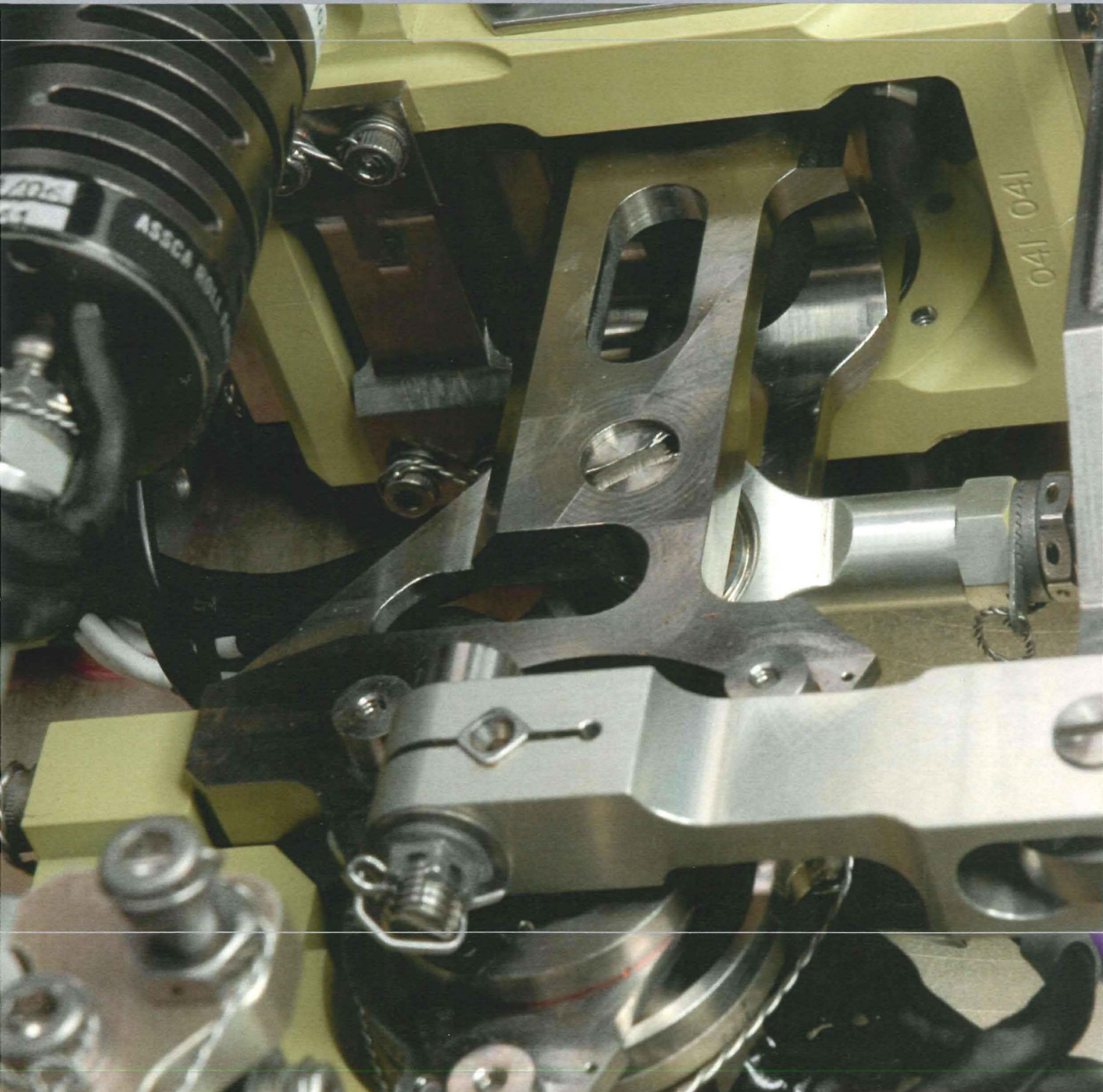


# Mechanical Engineering





## MECHANICAL ENGINEERING

Mechanical Engineering at BAE Systems takes technology to a new level. We turn state-of-the-art optic technologies into real products, overcoming ever changing challenges as we discover limitations and push barriers to design future aerospace products.

By Integrating micro-electronic technologies into force feedback mechanisms, we reduce the size of complex pilot control systems, and push materials to new levels with ultra lightweight, intelligent display fast-jet helmet systems.

The Mechanical Engineering team are skilled in all aspects of electro-mechanical and opto-mechanical concepts, validation and data management applicable to both military and commercial aerospace applications. Their skills are utilised across five skill areas:-

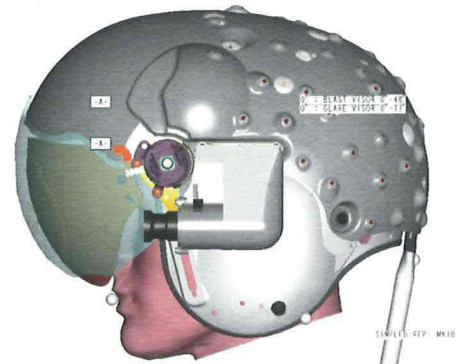
- Design
- Analysis
- Configuration Management
- Qualification Testing (Physical and EMC)
- PCB layout

Best practice tools and processes are employed to model and analyse designs from concept to manufacture. Rapid prototyping, finite element and physical analysis are used to verify the design integrity and select the most suitable material technologies. Design data and change management is controlled through the current PDM systems to ensure maximum re-use and seamless data flow via CAD/CAM interface to manufacture.

We have the capability to deliver innovative solutions, be it to a fully defined requirement, or blank sheet requests.

## MECHANICAL ENGINEERING CAPABILITIES

- Electro-mechanical design
- Opto-mechanical design
- Stress analysis
- Failure analysis
- Simulation/modelling, Matlab
- Draughting skills
- CAD skills Pro-E, IDEAS
- Dynamic cabling
- Force sensor and motor knowledge
- Aerospace / complex mechanism
- low volume, high value.



## Want to be part of it?

### Defence Avionics Careers

If you think you are ready for a demanding challenge, and have the skills and competencies that match the role, please get in touch.

### FOR MORE INFORMATION

- For details of current vacancies
- visit [www.baesystems.com/defenceavionics](http://www.baesystems.com/defenceavionics)
- email your cv and/or details of areas of interest to: [opportunitiesatrochester@baesystems.com](mailto:opportunitiesatrochester@baesystems.com)
- Call 01634 203450.

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