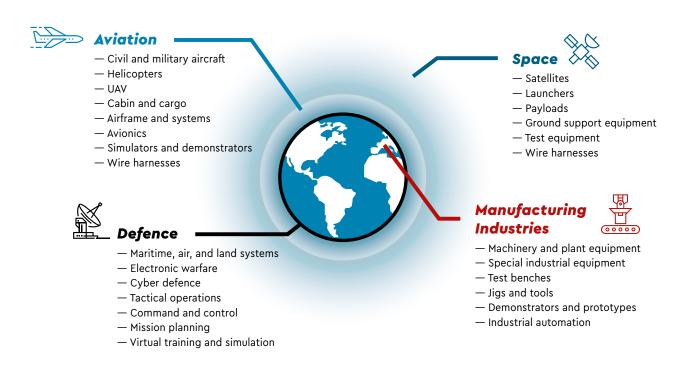




Your End-to-End Engineering Partner

Engineering Know-How Meets Manufacturing Expertise

Comprehensive engineering expertise, long-standing experience and global coverage – FERCHAU Aerospace & Defence is your ideal partner for multinational development projects in the Aerospace and Defence sector and adjoining industries. By not only combining state-of-the-art development know-how with consulting, but also with manufacturing, qualification and rollout, we provide flexible end-to-end solutions along the entire value chain. A powerful international partner network rounds off our cross-sector portfolio.



areas: systems, mechanical, electrical and electronic, software engineering plus production

branches in Germany, France, Spain and the United Kingdom

980 engineering specialists

The key to success

- Decades of experience in Aerospace and Defence
- Successful know-how transfer to adjoining industries
- One-stop-shop: end-to-end engineering plus manufacturing services from a single source
- Multinational set-up (DE, FR, ES, GB)
- Established global partner network
- Ready for the next level of digitalisation

End-to-End Support from a Single Source

FERCHAU Aerospace & Defence covers the entire engineering life cycle, ranging from study and analysis to implementation, certification and maintenance. We manage and provide complex work packages with all services from a single source, including the coordination and strategic development of a well-established portfolio of reliable global partners for cost and know-how optimisation. Our constant striving for innovation guarantees high-quality work according to state-of-the-art standards, e.g. when we apply novel model-based system engineering

techniques to develop complex systems. We drive digital transformation across our entire portfolio, for example by applying data analytics methods for product life cycle management, using extended reality for virtual battlefield simulation and developing embedded connectivity systems for the aircraft cabin. But our competence is not limited to engineering: customised small and series production of, for example, aircraft cabin simulators, special industrial equipment and test benches complements our portfolio, making us a true end-to-end partner for your challenging projects.

Systems Engineering

Consulting, deployment, and implementation:

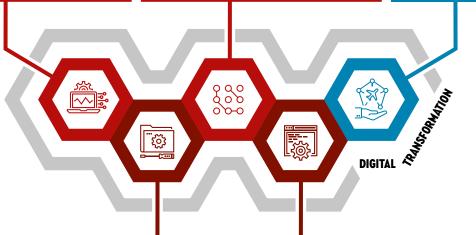
- Studies and concepts
- Architecture definition and specification
- Requirements-based engineering (RBE)
- Model-based systems engineering (MBSE)
- Configuration and change management
- Reliability, availability, maintainability, safety (RAMS)
- Prototyping, qualification and certification
- Testing and verification
- Project and interface management
- Vendor management

Electrical and Electronic Engineering

- Analogue and digital circuit design and simulation
- Printed circuit board design and layout
- Housing, frame, box, rack, and harness design
- Embedded systems
- PLCs and control software design and implementation
- LabVIEW test stand applications
- Power supplies and power management systems
- Safety and environmental testing and certification
- Technical documentation
- Obsolescence management
- Integration and qualification

Customised and Serial Production

- Ground support equipment
- Simulators and mock-ups
- Test systems
- Special industrial equipment
- Prototypes and demonstrators
- Wire harnesses



Mechanical Engineering

- Studies and concepts
- 2D/3D conceptual and detailed design
- Structural analysis and verification
- Mechanical and thermal analysis
- Technical documentation
- System integration
- Product conformity and risk assessment
- Manufacturing coordination

Software Engineering

- Architecture and modelling
- Design (object-oriented, multi-threaded)
- Implementation and integration
- Data collection, analysis, mining, visualisation, prediction
 via machine learning
- Testing (including code review, performance tests, test automation)
- HMI/MMI design
- Independent validation and verification
- Technical documentation
- Classical (V-model) and agile methods

More information about our expertise

ferchau.com/go/aerospace-defence

Connecting People and Technologies for the Next Level

