FERCHAU



Aerospace in Transition: Sustainability and Digitalisation as Game Changers

PORTFOLIO INSIGHTS | AEROSPACE

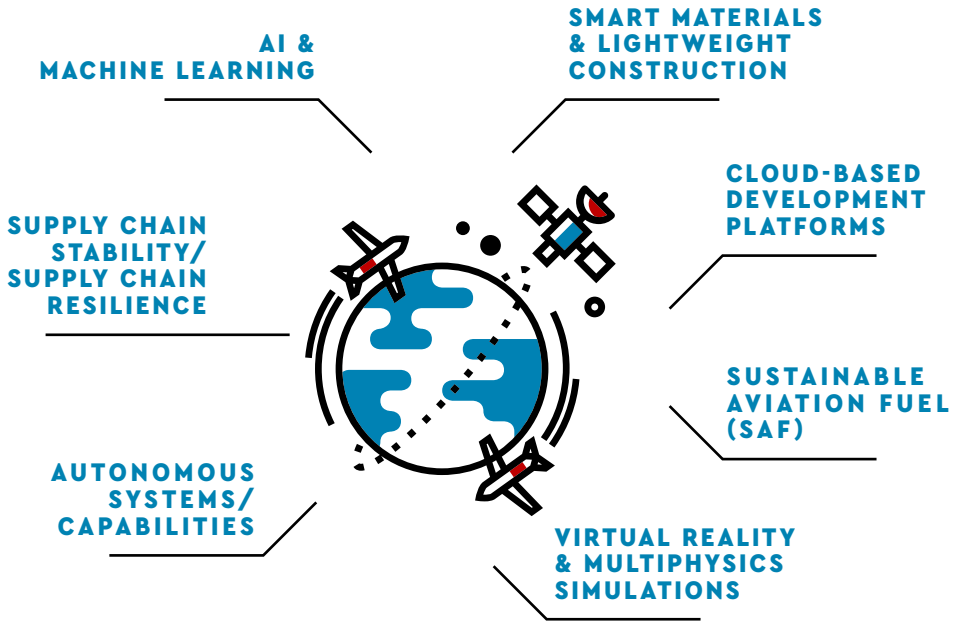
Status quo

The aerospace industry is undergoing radical transformation: Sustainability, digitalisation and new forms of mobility are changing value chains. Low-emission drives, urban air mobility and digital processes characterise all segments – from commercial aircraft and satellites to defence and mission systems. AI, IoT and data-driven tools are accelerating development, enable predictive maintenance and at the same time require strong cybersecurity. Increasing pressure due to shortage of skilled labour.

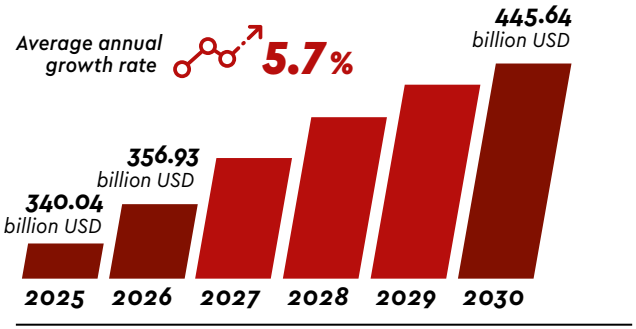
FERCHAU provides qualified engineering and IT experts and, as a preferred supplier with relevant certifications, supports OEMs, suppliers, airlines and military organisations OEMs, suppliers, airlines and military organisations with reliable end-to-end solutions.

Trends in the Aerospace Industry

Sustainability, digitalisation and space travel are driving change in the industry. Electric and hydrogen-based drives and lightweight construction are gaining in importance. AI, autonomous systems and 3D printing are accelerating digital development and improving the passenger experience. At the same time requirements for cybersecurity, modular architectures and high-performance on-board power systems are further increasing.



Aerospace market report 2026



Growth forecast for the global aerospace market
Source: thebusinessresearchcompany.com

KEY SUCCESS FACTORS IN THE INDUSTRY

- Macroeconomics/emerging markets
- Increase in air traffic
- Investing in security
- Technology & efficiency

Players in the Aerospace Industry

Who drives capability development – and where does FERCHAU provide support with engineering and IT excellence?

Aircraft manufacturers

- **Challenges:** *Supply chain bottlenecks, rising production costs, shortage of skilled labour, certification & safety requirements, decarbonisation (SAF, H_2, hybrid), deadline & quality pressure*
- **Top priorities:** *Production ramps & on-time delivery, sustainable drive concepts, digital consistency (PLM/MES), first time right & quality, partner ecosystems for R&D*
- **Our levers & expertise:** *Engineering & design (CAD/CAE), industrialisation & smart factory, project & quality management, approval & compliance (EASA/FAA), PLM/MES integration*

Supplier & technology provider

- **Challenges:** *Volatile demand & price pressure, capacity expansion, certifications (AS/EN9100), pressure to innovate (lightweight construction, new materials), cyber risks, working capital*
- **Top priorities:** *Scaling & OTD performance, co-innovation with OEMs, automation & digitalisation, sustainable materials & recycling, resilient supply chain*
- **Our levers & expertise:** *Advanced manufacturing & material technologies, supply chain management & logistics, certification & standards, IoT & predictive maintenance, cost-down programmes*

Airlines

- **Challenges:** *High operating costs & volatile fuel prices, decarbonisation & regulation, shortage of skilled labour (cockpit/MRO), punctuality & customer expectations, legacy IT deficiencies*
- **Top priorities:** *Fleet modernisation & efficiency, SAF procurement & CO_2 strategies, digital customer journey & self-services, MRO optimisation & turnaround, data-driven operations*
- **Our levers & expertise:** *Process optimisation & lean, revenue/network analytics, MRO concepts & reliability, IT platforms & integration, compliance & safety management*

Military

- **Challenges:** *Geopolitical tensions, rapid adaptation of capabilities, cyber & EW threats, complex procurement & ITAR, interoperability, availability in the field*
- **Top priorities:** *Fleet modernisation, integration of new technologies (drones, AI, sensors), mission systems & networking, uninterrupted supply & maintenance, testing & certification*
- **Our levers & expertise:** *System integration & avionics, software/hardware engineering, programme & risk management, cybersecurity & compliance, R&D for defence technology*

Associations & authorities

- **Challenges:** *Harmonisation of international standards, safety & compliance, promotion of innovation & sustainability, shortage of skilled labour, crisis & resilience management*
- **Top priorities:** *Further development of regulations, support for decarbonisation roadmaps (SAF, H_2), funding programmes & training, data exchange & standardisation*
- **Our levers & expertise:** *Regulatory expertise (EASA, ICAO), lobbying & industry communication, funding programmes & project consulting, safety & quality standards*

How we work together

YOUR BENEFITS AT A GLANCE

- » Reduction in project costs
- » FERCHAU quality standards
- » Higher BCC rate
- » Increased capacity
- » Over 15 years of experience in the BCC business

In today's dynamic industry landscape, it is crucial to be able to respond quickly to changing requirements. With our flexible solutions, we ensure that you always have exactly the right experts on board.

OUR COMMITMENT

SPECIALISED KNOW-HOW

Benefit from expert knowledge for your individual challenges.

HIGH QUALITY EXPERTS

Our consultants have an excellent track record and proven expertise.

FAST AVAILABILITY

You have access to a broad network of experts who are available at short notice.

YOUR BENEFITS

RELIABLE PLANNING

With our consultants, you can plan your projects reliably and implement them on schedule.

HIGH FLEXIBILITY

Scale your team according to your needs and reduce fixed costs.

COMPLIANCE INCLUDED

We take care of legally compliant contract processing and administration by our consultants.

COOPERATION MODELS

FERCHAU SUPPORT
Experts on Demand

In case of order peaks, capacity bottlenecks or if specialist know-how is required, our employees reinforce your development teams.

FERCHAU COMPETENCE
Solutions for your Projects

Our experts solve technological challenges in interdisciplinary teams: from the initial idea to after-sales service, we assume responsibility for your projects.

FERCHAU CONTRACT
Flexibility with Freelancers

Our proven network in technology contracting: carefully selected freelancers provide relief and safety for your success-critical projects.

FERCHAU DIRECT
Professional & Executive Search

Fill vacancies fast and precisely: whether you are looking for a manager, engineer, or IT specialist, we have the perfect search strategy and the best selection process for all vacancies.

Real-life Projects

Our Success Stories



Immersive Learning Experience for Challenging Content

Operation of radar systems, flight recorders and other complex systems for military and civilian purposes is extremely demanding.

Users must internalise a comprehensive catalogue of precise operating instructions in order to use the systems correctly. The corresponding training process is lengthy and cost-intensive for the operating companies.

TO THE SUCCESS STORY



Maintenance Simulation Trainer for the Eurofighter

The Eurofighter is a high-performance jet, and its maintenance is just as complex. To ensure that every move is perfect, the German Armed Forces are working with Airbus Defence & Space on a new maintenance simulation trainer.

In addition to maintenance and repair procedures, this should also offer a familiarisation version to support pilots in understanding the Eurofighter's avionics and weapons systems. FERCHAU experts supported Airbus in the implementation of this complex technical solution.

TO THE SUCCESS STORY



Requirements Management for Aerospace Applications at the Highest Level

In the aerospace industry, precise requirements management determines safety and certifiability. Thousands of specifications have to be recorded, checked and fully documented – an enormous challenge for software intensive »flying products«.

FERCHAU experts developed a customised solution.

TO THE SUCCESS STORY

We trust FERCHAU

Our references

ABB
AEROVIDE
AIRBUS
ALSTOM
ATLAS ELEKTRONIK
A joint company of ThyssenKrupp and EADS
Audi
AURAS GMBH
Beiersdorf
BERTELSMANN
BMW GROUP
BOSCH
B BRAUN SHARING EXPERTISE
BRAUN
brose Excellence In Mechatronics
B/S/H/
Continental
DFS Deutsche Flugsicherung
DIEHL
DND Dynamit Nobel Defence
DOW
DÜRR
ELiN
Ford
FORVIA HELLA
Fronius
HEIDELBERG
Heraeus
JUNGHEINRICH
KAUTEX A Textron Company
KNAUF
KNORR-BREMSE
KRONES
KUKA
Lufthansa Technik
MAGNA
MAHLE
MAX-PLANCK-INSTITUT FÜR PLASMAPHYSIK
MEYER WERFT PAPENBURG 1795
Miele
motorola
MTU Aero Engines
NORDEX
OSRAM
PHILIPS
PREMIUM AEROTEC
DR. RECKEWEG & CO
rexroth A Bosch Company
SIEMENS
SIG
TenneT
thyssenkrupp
VIESMANN
VOITH
VW
vossloh enabling green mobility
ZEISS

Around
10,000
employees

Over
130
branches

More than
150,000
applications p. a.

More than
200,000
candidates in the pool

More than
2,400
active customers

Enquiries
24/7
via our customer portal

Over
10,000
successful project launches last year

All relevant
certifications

Optionally with
Best-Cost-Countries



60 YEARS CREATING TOMORROW

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Connecting People and Technologies for the Next Level