

Aerospace in Bavaria

Aerospace plays an **important role in the mobility sector**, besides branches such as automotive and logistics.

Furthermore, Aerospace is **also a significant cross-industry issue that affects and is affected by other areas** such as IT security, new materials, lightweight construction, additive manufacturing, robotics, networked systems and fiber composites.

AEROSPACE INDUSTRY IN BAVARIA

EMPLOYEES



More than **38.000 employees** in the aerospace industry

This means that Bavaria accounts for **more than a third of all employees in Germany** in this field

BUSINESSES



Over **550 businesses**

The corporate landscape ranges from **small suppliers** to **innovative start-ups** to **global corporations**

PRODUCTION



Manufacture of **civil and military aircraft, helicopters, satellites, guided missiles** and **unmanned aerial vehicles (UAVs)**

Components for space vehicles and communication technologies for innovative applications in space and aviation are also developed

Bavaria plans to launch a special **technology support programme for aerospace in 2021**

RESEARCH AND DEVELOPMENT

STRONG NETWORK



Strong network of research activities in the aerospace industry

Bavaria supports joint projects (partners from research and industry) with **special technology funding programs**

Businesses, universities research facilities and institutes work hand in hand to drive innovation forward and set new impulses in mobility

Well-trained specialists and a constant stream of young experts for the further development of mobility

UNIVERSITY DEPARTMENTS



The **TUM Department of Aerospace and Geodesy** at the Technical University of Munich is the largest department of this kind in Europe

The **“TUM Center for Automated Urban Aerial Mobility”** bundles competencies in the field of flight systems and researches the technical and practical implementation of air taxis

TUM has already been successful in international competitions with the prototype of the **“Hyperloop”** passenger capsule

Further examples:

University of the Federal Armed Forces Munich, Department of Aerospace Engineering

Technical University of Ingolstadt, Application Cluster “Unmanned Flying”

University of Würzburg, Center for Telematics

FURTHER RESEARCH INSTITUTIONS



German Aerospace Center “Deutsches Zentrum für Luft- und Raumfahrt (DLR)”

German Space Operations Center (GSOC) “Deutsches Raumfahrt-Kontrollzentrum”

“Galileo-Kontrollzentrum (GCC)”

“Bauhaus Luftfahrt e.V.”

“Ludwig Bölkow Campus”

BAVARIAN AEROSPACE CLUSTER AND START-UPS

CLUSTER



Cluster Aerospace

BavAIRia e.V. has been managing the cluster since 2006

Responsible for:

- Connecting businesses with the research landscape
- Identifying and promoting Bavarian core competencies in aviation, aerospace and space applications
- Increasing the competitiveness of these industries on a global level

BIG PLAYER



Airbus Defence and Space

Airbus Helicopters

MTU Aero Engines

Rohde & Schwarz

START-UPS



Isar Aerospace

HPTex GmbH

(cooperation of HPS GmbH and Iprotex GmbH & Co. KG)

Lilium

Quantum-Systems GmbH

Where start-ups can grow

ESA Business Incubation Center Bavaria (ESA BIC Bavaria)

Brigk Air in Ingolstadt



Sources

<https://www.bavaria.net/en/bavaria-ev/>

<https://www.cluster-bayern.de/en/>

<https://www.stmwi.bayern.de/innovation-technologie/schwerpunkte/luft-und-raumfahrt/>

<https://www.tum.de/nc/en/about-tum/news/press-releases/details/36144/>

<https://esa-bic.de/by/>