

# PRIME aerostructures GmbH

## PRIME EN

### About this organisation

#### Machine translation

This organisation has been machine-translated based on data provided in German.

PRIME aerostructures GmbH is an engineering service provider in the aerospace sector. The strategic positioning is as a provider of the entire development and component life cycle. PRIME has many years of experience in the development of complete components for the aerospace industry. This includes FEM calculations and dynamic as well as non-linear calculation methods for fibre composite and metal structures.

Thanks to its many years of experience in the development of structural components and assemblies in aviation, PRIME aerostructures GmbH has extensive expertise in the field of lightweight construction. This includes the consideration of modern materials and manufacturing methods as well as simulation-based topology optimisation, taking into account all relevant loads and fatigue life. By using the Model Based System Engineering (MBSE) approach within the 3DEXPERIENCE platform from Dassault Systèmes, PRIME optimises the development process itself. In addition, PRIME has been and continues to be involved in numerous research projects, not only in the field of aviation, and has thus itself become a driver for the further development of lightweight construction.

Cornelius-Edzard-Straße 15  
28199 Bremen  
Bremen  
Germany  
[primeaero.at/](http://primeaero.at/)



#### Organisation type

Small or medium-sized enterprise

#### Sectors



#### Employees

10 up to 49

#### Turnover

€2m - €10m

#### Funding

n/a

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### About this organisation

**Main areas covered** Design/Construction, Simulation/FEM, Materials and processes, Process planning, Certification

#### Infrastructure

**Certifications** EN 9100, ISO 9001

**Keywords** linear/non-linear FEM, Static/dynamic FEM, Numerical flow simulation, Process simulation (AM/injection moulding), Design/development

**Memberships** Composites United e.V., ECOMAT e.V., Mechatronics cluster, Plastics cluster, Industriellenvereinigung e.V.

### Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<i>Products</i>			
<b>Services &amp; consulting</b> Consulting, Engineering, HR services, Simulation, Technology transfer, Approval	✓	✓	✓

**Overview of lightweighting expertise**

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts	✓	✓	✓
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			
<b>Manufacturing process</b>			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

## Overview of lightweighting expertise

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**Research**   **Development**   **Manufacturing & Supply**

#### Material

*Biogenic materials*

*Cellular materials (foam materials)*

*Composites*

*Fibres*

*Functional materials*

*Metals*

*Plastics*

*Structural ceramics*

*(Technical) textiles*

## Contacts

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This organisation has been machine-translated based on data provided in German.

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