

# Fraunhofer Institute for Wood Research Wilhelm-Klauditz Institute WKI

## Fraunhofer Application Centre HOFZET

### About this organisation

#### Machine translation

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

With its HOFZET application centre, the Fraunhofer WKI stands for innovative, application-oriented research and expertise in the field of bio-based composites.

HOFZET's research focuses include the development of application-specific, optimised hybrid fibre-reinforced composites, project planning and implementation of process chains for the manufacture of innovative hybrid FRPs for small and large-scale production, and the development and testing of effective material-specific recycling concepts. HOFZET's modern technical equipment enables the comprehensive production of matrix- and fibre-dominant FRPs as well as the non-destructive and destructive analysis of material properties. Through close co-operation with the Institute for Bioplastics and Biocomposites IfBB at Hanover University of Applied Sciences and Arts, HOFZET offers its customers a broad spectrum of manufacturing processes and testing methods in the field of (bio)plastics technology.

Heisterbergallee 12  
30453 Hannover  
Lower Saxony  
Germany

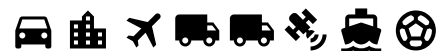
[www.wki.fraunhofer.de/de/fachbereiche/hofzet/profil.html](http://www.wki.fraunhofer.de/de/fachbereiche/hofzet/profil.html)



#### Organisation type

Non-university research institution

#### Sectors



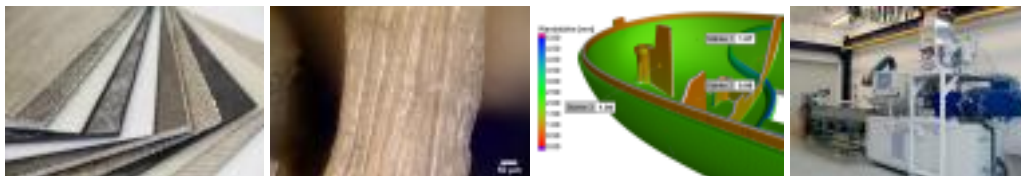
#### Employees

50 up to 249

#### Turnover

€10m - €50m

#### Funding



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### About this organisation

<b>Main areas covered</b>	Research and development, Fibre composites, Test laboratory, Technical (biobased) textiles, Fibre spraying
<b>Infrastructure</b>	Extrusion, injection moulding, Organic sheet extruder, Mechanical tests, Non-destructive testing, Optical and rheological measurements
<b>Certifications</b>	
<b>Keywords</b>	Hybrid lightweight construction, NFK, Biocomposite material
<b>Memberships</b>	

### Overview of lightweighting expertise

#### Machine translation

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

	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Semi-finished parts, Materials	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Prototyping, Validation, Simulation	✓	✓	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Hybrid structures, Lightweight construction concepts	✓	✓	
<b>Functional integration</b> Sensor technology, Material functionalisation	✓	✓	
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
<b>Modelling and simulation</b> Life-cycle analysis, Optimisation, Processes, Materials	✓	✓	
<i>Plant construction &amp; automation</i>			
<b>Recycling technologies</b> Downcycling, Material separation, Recycling	✓	✓	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> 3D printing	✓	✓	
<b>Coating (surface engineering)</b> Others (Wet chemical treatment)	✓	✓	
<b>Fibre composite technology</b> Fibre spraying, Manual lamination, Resin infusion process, Vacuum infusion	✓	✓	
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<b>Primary forming</b> Extrusion, Casting, Injection moulding	✓	✓	✓
<b>Processing and separating</b> Milling, Sawing	✓	✓	
<b>Textile technology</b> Fibre manufacturing, Preforming, Weaving	✓	✓	✓

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<b>Biogenic materials</b> Bioplastics, Biocomposites, Wood, Others (Bio-based hybrid fibre composites, biocomposites)	✓	✓	
<b>Cellular materials (foam materials)</b> Others (Wood foam)	✓	✓	
<b>Composites</b> Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Textile-reinforced concrete	✓	✓	
<b>Fibres</b> Aramid fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
<b>Plastics</b> Thermoset plastics, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Yarns, rovings, Woven fabrics, Others (Hybrid fabric)	✓	✓	

## Contacts

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**Fraunhofer Institute for Wood Research Wilhelm-Klauditz Institute**  
**WKI**  
*Fraunhofer Application Centre HOFZET*

**Contacts**

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