

# Open Hybrid LabFactory e.V.

## Association

### About this organisation

The Open Hybrid LabFactory (OHLF) in Wolfsburg enables the research and development of innovative lightweight construction concepts for the coming vehicle generations and other mobility carriers. The OHLF is funded by the German Federal Ministry of Education and Research (BMBF) as part of the funding initiative "Research Campus - Public-Private Partnership for Innovation".

The particular strength of the research factory is based on combined production technologies and the use of multi-material for function integrated components as well as the complete component consideration over the entire product life cycle; from conceptual design, textile semi-finished and organic sheet production as well as manufacturing processes, to life cycle design & engineering.

Hermann-Münch-Straße 2  
38440 Wolfsburg  
Lower Saxony  
Germany  
[open-hybrid-labfactory.de](https://open-hybrid-labfactory.de)

#### Main areas covered

#### Infrastructure

#### Certifications

#### Keywords

#### Memberships



#### Organisation type

Programme administration, PPP

#### Sectors



#### Employees

50 up to 249

#### Turnover

n/a

#### Funding

n/a

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Overview of lightweighting expertise			
	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<i>Products</i>			
<b>Services &amp; consulting</b> Validation	✓		
<b>Field of technology</b>			
<b>Design &amp; layout</b> Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓		
<i>Functional integration</i>			
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓		
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials	✓		
<b>Plant construction &amp; automation</b> Automation technology, Handling technology	✓		
<b>Recycling technologies</b> Material separation, Recycling	✓		

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<b>Manufacturing process</b>			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b> Others	✓		
<b>Forming</b> Impact extrusion, Compression moulding, Thermal converting, Deep-drawing, Others	✓		
<b>Joining</b> Hybrid joining, Adhesive bonding, Others	✓		
<i>Material property alteration</i>			
<b>Primary forming</b> Extrusion, Casting, Pultrusion, Injection moulding	✓		
<i>Processing and separating</i>			
<b>Textile technology</b> Textile surface treatment and finishing, Others	✓		

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### Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
<b>Material</b>			
<b>Biogenic materials</b> Bioplastics, Biocomposites, Wood	✓		
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Others	✓		
<b>Fibres</b> Glass fibres, Carbon fibres, Others	✓		
<i>Functional materials</i>			
<i>Metals</i>			
<b>Plastics</b> Thermoplastics, Others	✓		
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Laid webs, Woven fabrics, Others	✓		

### Contacts

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