### About this organisation

#### **Machine translation**

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As an institute of the Fraunhofer-Gesellschaft, Fraunhofer UMSICHT works in the field of applied research. Fraunhofer UMSICHT sees itself as a pioneer of sustainable energy and raw materials management by providing and transferring scientific results to companies, society and politics. The Fraunhofer UMSICHT team researches and develops sustainable products, processes and services together with partners.

The "Product Development" department researches and develops material systems related to construction technology (fire-resistant glazing, thermotropic polymers, aerogels).

Osterfelder Straße 3 46047 Oberhausen North Rhine-Westphalia Germany

☑ www.umsicht.fraunhofer.de



### Organisation type

Non-university research institution

#### Sectors

No specific sector

#### **Employees**

250 up to 499

#### Turnover

€10m - €50m

#### **Funding**



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Aerogels, Composite systems

#### Infrastructure

chem., phys., mech. labs, Technical centres and test benches, mechanical and electrical workshops

#### Certifications

Keywords

Aerogel, Roof covering

### Memberships

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	Research	N Development	Manufacturin & Supply		
Offer					
Products					
Services & consulting Testing and trials, Prototyping, Validation, Simulation, Technology transfer	<b>✓</b>	<b>✓</b>			
Field of technology					
<b>Design &amp; layout</b> Hybrid structures, Lightweight construction concepts	<b>✓</b>	<b>✓</b>			
Functional integration Sensor technology, Material functionalisation	<b>✓</b>	<b>✓</b>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation	<b>✓</b>	<b>✓</b>			
Modelling and simulation Life-cycle analysis, Optimisation, Materials	<b>✓</b>	<b>✓</b>			
Plant construction & automation Plant construction, Automation technology	<b>✓</b>	<b>✓</b>			
Recycling technologies  Material separation, Recycling, Upcycling	<b>~</b>	<b>✓</b>			

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Overview of lightweighting expertise			
Machine translation  This organisation has been machine-translated bases	sed on data provid	ded in German.	
	Research	N Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser sintering (SLS)	<b>✓</b>	<b>✓</b>	
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment	<b>~</b>	<b>✓</b>	
Primary forming			
Processing and separating			
Textile technology			

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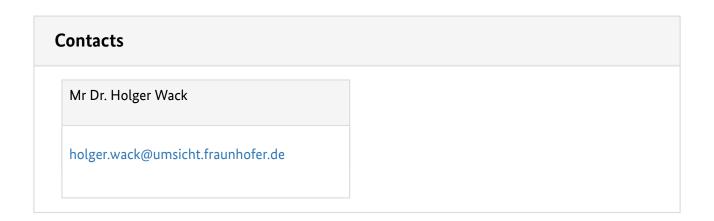
Overview of lightweighting expertise				
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	Research	N Development	Manufacturing & Supply	
Material				
Biogenic materials Bioplastics	<b>✓</b>	<b>✓</b>		
Cellular materials (foam materials)				
Composites				
Fibres				
Functional materials				
Metals				
Plastics Thermoset plastics, Elastomers, Thermoplastics	<b>✓</b>	<b>✓</b>		
Structural ceramics				
(Technical) textiles				

## **Contacts**

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