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	✓	✓			
Field of technology					
Design & layout Hybrid structures, Lightweight construction concepts	✓	✓			
Functional integration Sensor technology, Material functionalisation	✓	✓			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation	✓	✓			
Modelling and simulation Life-cycle analysis, Optimisation, Materials	✓	✓			
Plant construction & automation Plant construction, Automation technology	✓	✓			
Recycling technologies Material separation, Recycling, Upcycling	~	✓			

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Overview of lightweighting expertise			
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	Research	N Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser sintering (SLS)	✓	✓	
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment	~	✓	
Primary forming			
Processing and separating			
Textile technology			

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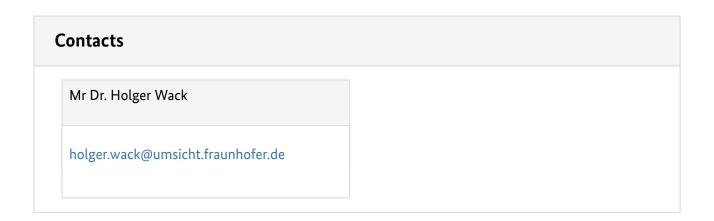
Overview of lightweighting expertise				
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	Research	N Development	Manufacturing & Supply	
Material				
Biogenic materials Bioplastics	✓	✓		
Cellular materials (foam materials)				
Composites				
Fibres				
Functional materials				
Metals				
Plastics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

Contacts

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