About this organisation

Machine translation

Campus Boulevard 30

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The aim of the Aachen Centre for Integrative Lightweight Construction (AZL) is to transfer lightweight construction to mass production through close interdisciplinary cooperation between materials science and production engineering. To this end, the AZL works together with established lightweight construction institutes at RWTH Aachen University. Together with AZL Aachen GmbH, AZL realises joint R&D initiatives in its industrial network of more than 80 companies.

AZL's research topics focus on the implementation of integrated process chains for the large-scale production of lightweight components and the development and production of load and cost-optimised multi-material systems. In this context, the following are considered: -Process chain development and testing - Handling and automation technology - Tool and mould making - Process and joining technologies for multi-material systems -Continuous quality and process data chains



Organisation type University or higher education institution

Sectors No specific sector

Employees 10 up to 49

Turnover n/a

Funding n/a

S2074 Aachen North Rhine-We Germany	
Main areas covered	Process chain development/testing, Handling and automation, Tool and mould making, Multi-material systems, Consistent process chains
Infrastructure	
Certifications	
Keywords Automation technology, Hybrid components/multi-material system, Material qualification, Process evaluation & optimisation	
Memberships	

Overview of lightweighting expertise					
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his organisation has been machine-translated based on data provided in German.					
	Research	N Development	lanufacturing & Supply		
Offer					
Products Parts and components, Semi-finished parts, Machines and plants, Software & databases, Systems and end products, Materials, Tools and moulds	~	\checkmark			
Services & consulting Training, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	\checkmark	\checkmark			
Field of technology					
Design & layout					
Functional integration					
Measuring and testing technology					
Modelling and simulation					
Plant construction & automation					
Recycling technologies					

Overview of lightweighting expertise					
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	Research	Manufacturing Development & Supply			
Manufacturing process					
Additive manufacturing					
Coating (surface engineering)					
Fibre composite technology					
Forming					
Joining					
Material property alteration					
Primary forming					
Processing and separating					
Textile technology					
Material					
Biogenic materials					
Cellular materials (foam materials)					
Composites					
Fibres					
Functional materials					
Metals					
Plastics					
Structural ceramics					
(Technical) textiles					

Contacts

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Mr Dr.-Ing. Michael Emonts

Managing Director

michael.emonts@azl.rwth-aachen.de