### About this organisation

### **Machine translation**

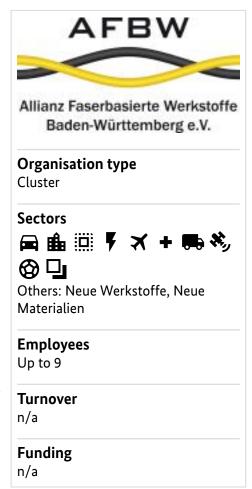
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The AFBW is a cross-industry technology network and covers the entire value chain of fibre-based materials - from suppliers to consumers and research institutions. This makes the AFBW a platform for dialogue and knowledge transfer and a driver of innovation. Together with its members and partners, the AFBW highlights new solutions and supports the "fibre renaissance". Added value through networking!

This is what AFBW does: - Creating an information advantage and access to new markets - Contact mediation and networking - Knowledge transfer and exchange: - Realising innovative ideas together - Co-operation projects - Expertise pool and technology transfer - Strengthening strengths - Networking with other multipliers and networks One of AFBW's most important areas of research is mobility - from cars to aerospace. Fibre-based materials have become indispensable here. Energy-efficient, multifunctional and sustainable, they are recommended for more and more applications. As carriers of diverse functions, they are already replacing established systems made of conventional materials in many areas of application.

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☑ www.afbw.eu



# Main areas covered Infrastructure Certifications Cluster Excellence Gold BaWü and EU Keywords Memberships

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Overview of lightweighting expertise				
Machine translation				
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	Research	I Development	Manufacturing & Supply	
Offer				
Products Parts and components, Semi-finished parts, Materials	~	~		
Services & consulting Engineering, Standardisation, Prototyping, Simulation, Technology transfer	~			
Field of technology				
Design & layout				
Functional integration				
Measuring and testing technology				
Modelling and simulation				
Plant construction & automation				
Recycling technologies				

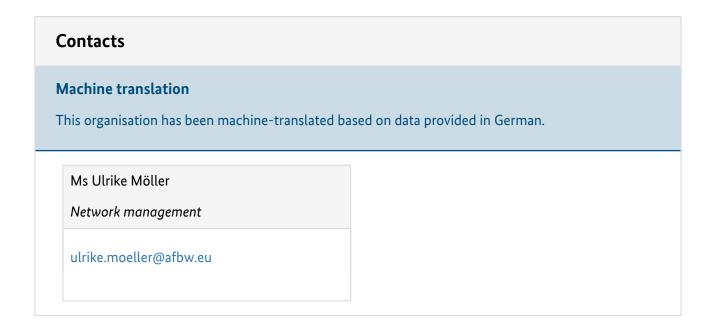
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Overview of lightweighting expertise  Machine translation  This organisation has been machine-translated based on data provided in German.				
Manufacturing process				
Additive manufacturing				
Coating (surface engineering)				
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	<b>✓</b>	<b>✓</b>		
Forming				
Joining				
Material property alteration				
Primary forming				
Processing and separating				
Textile technology Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Knitting, Textile surface treatment and finishing, Nonwoven & mats production, Weaving, Knitting, laid web production	<b>✓</b>	<b>✓</b>	<b>✓</b>	

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Overview of lightweighting expertise			
Machine translation			
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	Research	N Development	Manufacturin & Supply
Material			
<b>Biogenic materials</b> Bioplastics, Biocomposites, Wood	<b>✓</b>	<b>✓</b>	
Cellular materials (foam materials)			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Short fibre-reinforced concrete, Natural fibre reinforced plastics (NFRP), Laminates, Textile-reinforced concrete	<b>✓</b>	<b>✓</b>	
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	<b>✓</b>	<b>✓</b>	<b>✓</b>
Functional materials			
Metals			
Plastics Thermoset plastics, Elastomers, Thermoplastics	<b>✓</b>		
Structural ceramics			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	~	✓	~

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