

AFBW - Alliance Fibre-based Materials Baden-Württemberg e.V.

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

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.

Kernstraße 59
70182 Stuttgart
Baden-Württemberg
Germany
www.afbw.eu

Main areas covered New materials

Infrastructure

Certifications Cluster Excellence Gold BaWü and EU

Keywords

Memberships



Organisation type

Cluster

Sectors



Others: Neue Werkstoffe, Neue Materialien

Employees

Up to 9

Turnover

n/a

Funding

n/a

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	✓	✓	
Services & consulting Engineering, Standardisation, Prototyping, Simulation, Technology transfer	✓		
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Knitting, Textile surface treatment and finishing, Nonwoven & mats production, Weaving, Knitting, laid web production	✓	✓	✓

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites, Wood	✓	✓	
<i>Cellular materials (foam materials)</i>			
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	✓	✓	
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓		
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	✓

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Contacts

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