About this organisation

Machine translation

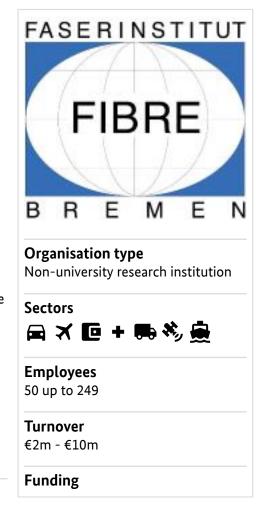
This organisation has been machine-translated based on data provided in German.

FASERINSTITUT BREMEN e.V. (FIBRE) is a scientific institution with around 60 employees that carries out research and development work in the fields of innovative fibres, technical textiles and modern fibre composites. The independent institute is largely financed through the acquisition of funded projects in close co-operation with industrial companies and research institutes.

The Fibre and Material Development competence field focuses on the development and production of functional fibres and sustainable fibre systems. The field of measurement systems and monitoring is active in sensor integration and methods for image-analytical quality assurance. New CFRP construction methods and manufacturing processes are developed in the competence field of structural design and production technologies. The experts in the Modelling and Simulation department provide support with their predictions on material properties, the influence of process control and component design, often for aerospace structures. The institute also operates a materials science testing centre. The testing centre offers a comprehensive range of procedures for determining the technological characteristics of fibres, textile products and fibre composite structures. It offers DIN ISO 17025 accredited testing procedures and is available for internal and external services.

Am Biologischen Garten 2 28359 Bremen Bremen Germany

www.faserinstitut.de



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About this organisation				
Main areas covered	Modelling & simulation of FVW, Structure & process development FVW, Monitoring & measuring systems for FVW, Fibre and material development, Materials science laboratories			
Infrastructure	TFP, compounding and thermoforming, Injection moulding and overmoulding, Infusion, RTM and pultrusion, Melt and solvent spinning, Laboratories for fibres, textiles, FVW			
Certifications	ISO 9001, tests according to ISO 17025			
Keywords	CFRP, Fibres			
Memberships	Composite United, Textile Research Board, ECOMAT			

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	~	~	
Services & consulting Training, Testing and trials, Standardisation, Validation, Simulation, Technology transfer, Maintenance and repair	✓	✓	✓

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Overview of lightweighting expertise							
Machine translation							
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	Research	I Development	Manufacturing & Supply				
Field of technology							
Design & layout Lightweight manufacturing, Light Hybrid structures, Lightweight co- concepts, Lightweight material co-	nstruction	✓					
Functional integration							
Measuring and testing technol Visual analysis (e.g. microscopy, m Materials analysis, Destructive ana destructive analysis	netallography),	✓	✓				
Modelling and simulation Crash behaviour, Loads & stress, N simulation, Processes, Structural r Materials		~	✓				
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 **Development** & Supply Research Manufacturing process **Additive manufacturing** 3D printing Coating (surface engineering) Fibre composite technology Filament winding, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion **Forming** Thermal converting **Joining** Hybrid joining Material property alteration **Primary forming** Pultrusion, Injection moulding, Others (Overmoulding) Processing and separating **Textile technology** Fibre manufacturing, Braiding, Preforming, Nonwoven & mats production, Others (TFP)

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing & Supply Research Development Material **Biogenic materials** Bioplastics, Biocomposites Cellular materials (foam materials) **Composites** Glass-fiber reinforced plastics (GFRP), Carbonfiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Others (Hybrid materials) **Fibres** Carbon fibres, Natural fibres, Others (polymer functional fibres in melt spinning and solvent spinning processes) Functional materials Metals **Plastics** Thermoset plastics, Thermoplastics Structural ceramics (Technical) textiles Yarns, rovings, Meshes, Nonwovens, mats, Others (TFP)

Contacts

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Contacts

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