

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



Organisation type

Non-university research institution

Sectors



Employees

50 up to 249

Turnover

€2m - €10m

Funding

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

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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	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
<i>Functional integration</i>			
Measuring and testing technology Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non- destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Multiphysics simulation, Processes, Structural mechanics, Materials	✓	✓	✓
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing	✓	✓	
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	
Forming Thermal converting	✓	✓	
Joining Hybrid joining	✓	✓	
<i>Material property alteration</i>			
Primary forming Pultrusion, Injection moulding , Others (Overmoulding)	✓	✓	
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Braiding, Preforming, Nonwoven & mats production, Others (TFP)	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber 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)	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Nonwovens, mats, Others (TFP)	✓	✓	

Contacts

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Contacts

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