

Institute for Textile Technology Augsburg gGmbH

non-university research institute

About this organisation

Machine translation

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

The ITA Augsburg is a non-university research institute at the Augsburg Research Campus. It is part of the ITA Group centred around the Institute of Textile Technology at RWTH Aachen University.

The ITA Augsburg deals with the following research topics:
Web-based composites (nonwoven-based composites):
- Processing of composite waste (rCF) into nonwovens -
Product development of rCF based products - Isotropic nonwovens - Anisotropic nonwovens - Production of nonwoven tapes (web tapes) - Production of organo webs -
Testing and standardisation of rCF - Design and simulation of web based composites - Industry 4.0 applications Hybrid production methods: - Organomelt/injection moulding -
Organo webs

Am Technologiezentrum 5
86159 Augsburg
Bavaria
Germany
www.ita-augsburg.de



Organisation type

Non-university research institution

Sectors

No specific sector

Employees

Up to 9

Turnover

Up to €2m

Funding

Main areas covered

Research services

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Systems and end products	✓	✓	
Services & consulting Consulting, Testing and trials, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout Hybrid structures, Lightweight material construction	✓	✓	
Functional integration Sensor technology, Material functionalisation	✓	✓	
Measuring and testing technology Component and part analysis, Materials analysis	✓	✓	
Modelling and simulation Processes, Materials	✓	✓	
Plant construction & automation Plant construction, Automation technology	✓	✓	
Recycling technologies Recycling, Upcycling	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
Fibre composite technology Manual lamination, Resin infusion process	✓	✓	
Forming Compression moulding, Thermal converting	✓	✓	
Joining Adhesive bonding, Sewing	✓	✓	
<i>Material property alteration</i>			
Primary forming Pultrusion, Injection moulding	✓	✓	
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Textile surface treatment and finishing, Nonwoven & mats production	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites	✓	✓	
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Short fibre-reinforced concrete, Natural fibre reinforced plastics (NFRP), Textile-reinforced concrete	✓	✓	
Fibres Aramid fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Laid webs, Nonwovens, mats	✓	✓	

Contacts

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Contacts

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