

# 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  
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Bavaria  
Germany  
[www.ita-augsburg.de](http://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<br>& Supply |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Offer</b>                                                                                                                                                     |          |             |                           |
| <b>Products</b><br>Parts and components, Semi-finished parts,<br>Machines and plants, Systems and end products                                                   | ✓        | ✓           |                           |
| <b>Services &amp; consulting</b><br>Consulting, Testing and trials, Engineering,<br>Standardisation, Prototyping, Validation,<br>Simulation, Technology transfer | ✓        | ✓           |                           |
| <b>Field of technology</b>                                                                                                                                       |          |             |                           |
| <b>Design &amp; layout</b><br>Hybrid structures, Lightweight material<br>construction                                                                            | ✓        | ✓           |                           |
| <b>Functional integration</b><br>Sensor technology, Material functionalisation                                                                                   | ✓        | ✓           |                           |
| <b>Measuring and testing technology</b><br>Component and part analysis, Materials analysis                                                                       | ✓        | ✓           |                           |
| <b>Modelling and simulation</b><br>Processes, Materials                                                                                                          | ✓        | ✓           |                           |
| <b>Plant construction &amp; automation</b><br>Plant construction, Automation technology                                                                          | ✓        | ✓           |                           |
| <b>Recycling technologies</b><br>Recycling, Upcycling                                                                                                            | ✓        | ✓           |                           |

## Overview of lightweighting expertise

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

## Overview of lightweighting expertise

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|                                                                                                                                                                                                                                       | Research | Development | Manufacturing<br>& Supply |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Material</b>                                                                                                                                                                                                                       |          |             |                           |
| <b>Biogenic materials</b><br>Biocomposites                                                                                                                                                                                            | ✓        | ✓           |                           |
| <i>Cellular materials (foam materials)</i>                                                                                                                                                                                            |          |             |                           |
| <b>Composites</b><br>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 | ✓        | ✓           |                           |
| <b>Fibres</b><br>Aramid fibres, Glass fibres, Carbon fibres, Natural fibres                                                                                                                                                           | ✓        | ✓           |                           |
| <i>Functional materials</i>                                                                                                                                                                                                           |          |             |                           |
| <i>Metals</i>                                                                                                                                                                                                                         |          |             |                           |
| <b>Plastics</b><br>Thermoset plastics, Thermoplastics                                                                                                                                                                                 | ✓        | ✓           |                           |
| <i>Structural ceramics</i>                                                                                                                                                                                                            |          |             |                           |
| <b>(Technical) textiles</b><br>Yarns, rovings, Laid webs, Nonwovens, mats                                                                                                                                                             | ✓        | ✓           |                           |

## Contacts

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## Contacts

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