# Cetex Institute gGmbH

at the Chemnitz University of Technology

## About this organisation

### **Machine translation**

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

Cetex is the research institute in Germany for new technologies and machines for the production of technical textiles, textile-based semi-finished products, functional components and high-performance structures. As an affiliated institute, we work in close cooperation with Chemnitz University of Technology on the development of cost-efficient customised components.

We develop processes and machines for multifunctional lightweight construction for our customers, from the idea to the concept to the prototype or special machine - as requested by our partners as part of subsidised application-oriented or preliminary research or as contract development. Our research activities focus on technologies and machines for technical textiles and textile-based composites that are suitable for large-scale production.

Altchemnitzer Str. 11 09120 Chemnitz Saxony Germany

☑ www.cetex.de



## Organisation type

Non-university research institution

## Sectors



## **Employees**

50 up to 249

### Turnover

n/a

### **Funding**

n/a



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Main areas covered	Classic textile machines, Machines for technical textiles, Special machines, Textile-reinforced applications, Fibre composites
Infrastructure	Test hall, partially air-conditioned, Mechanical production, Textile machine/testing technology, Machine/testing technology fibre composite, Software CAD/Calculation/Programme.
Certifications	
Keywords	Mechanical engineering, Technical textiles, Fibre composites, Process development, Measuring and testing technology

# Overview of lightweighting expertise

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	Research	N Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Materials	~	<b>✓</b>	<b>✓</b>
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Validation	~	<b>✓</b>	<b>✓</b>

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Overview of lightweighting expertise				
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	Research	M Development	fanufacturing & Supply	
Field of technology				
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	<b>~</b>	<b>✓</b>		
Functional integration  Material functionalisation	<b>✓</b>	<b>✓</b>		
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis	<b>✓</b>	<b>✓</b>	<b>✓</b>	
Modelling and simulation				
Plant construction & factory automation Plant construction	<b>✓</b>	<b>✓</b>		
Recycling technologies				

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Overview of lightweighting expertise			
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Manufacturin			
	Research	Development	& Supply
Manufacturing process			
Additive manufacturing 3D printing	<b>✓</b>	<b>✓</b>	<b>✓</b>
Coating (surface engineering)			
Fibre composite technology Filament winding, Pre-preg processing	<b>✓</b>	<b>✓</b>	<b>✓</b>
Forming Impact extrusion, Thermal converting	<b>✓</b>	<b>✓</b>	
<b>Joining</b> Hybrid joining, Sewing	<b>✓</b>	<b>✓</b>	
Material property alteration			
Primary forming			
Processing and separating Drilling, Turning, Milling			<b>✓</b>
<b>Textile technology</b> Braiding, Preforming, Knitting, Knitting, laid web production	<b>~</b>	<b>✓</b>	

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verview of lightweighting expertise			
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	Research	M Development	1anufacturin & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal matrix composite, Natural fibre reinforced plastics (NFRP), Laminates, Textile-reinforced concrete	<b>✓</b>	<b>✓</b>	
<b>Fibres</b> Basalt fibres	<b>✓</b>	<b>✓</b>	
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics	<b>✓</b>	<b>✓</b>	

## **Contacts**

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Contacts			
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