

About this organisation

Machine translation

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

Chair of Experimental Physics II at the University of Augsburg

The research focus is on fibre composite materials, whereby we investigate the entire process chain from the individual fibre to the finished component. Starting with individual fibres, which are characterised using atomic force and electron microscopy and spectroscopy, the research spectrum extends to the investigation of fibre composite materials using destructive and non-destructive material testing methods such as acoustic emission analysis and X-ray tomography.

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86159 Augsburg
Bavaria
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🔗 www.physik.uni-augsburg.de/lehrstuehle/exp2/



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a

Main areas covered

Material testing

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Materials	✓		
Services & consulting Training, Testing and trials, Validation, Technology transfer	✓		
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non- destructive analysis	✓		
<i>Modelling and simulation</i>			
<i>Plant construction & factory automation</i>			
Recycling technologies Material separation, Recycling	✓		

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP)	✓		
Fibres Carbon fibres	✓		
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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