

# Leipzig University of Applied Sciences for Technology, Economics and Culture

## Institute for Building Materials and Construction Process Simulation

### About this organisation

#### Machine translation

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

The Institute for Building Materials and Construction Process Simulation (IBBS) at the Leipzig University of Applied Sciences (HTWK Leipzig) is a renowned research and development institution with extensive experience in the field of building material development and application as well as the corresponding process engineering in connection with the development of powerful, industry-scale, numerical simulation tools.

Research focuses on cement-bound building materials, in particular the experimental and numerical determination of material characteristics and component behaviour as well as the simulation of hydration heat-related restraint stresses, service life-relevant effects and fire stresses. Another research focus is the numerical simulation of the manufacturing and joining processes of steel materials and the reinforcement of bending-stressed timber and reinforced concrete components using carbon fibre composites.

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Saxony  
Germany  
[www.fb.htwk-leipzig.de/fakultaet/](http://www.fb.htwk-leipzig.de/fakultaet/)



#### Organisation type

University or higher education institution

#### Sector



#### Employees

10 up to 49

#### Turnover

n/a

#### Funding

#### Main areas covered

Civil Engineering

#### Infrastructure

#### Certifications

#### Keywords

#### Memberships

## Overview of lightweighting expertise

### Machine translation

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<i>Products</i>			
<b>Services &amp; consulting</b> Training, Standardisation, Prototyping, Validation, Simulation, Technology transfer, Approval	✓	✓	
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

## 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
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<b>Composites</b>			
Carbon-fiber reinforced plastics (CFRP)	✓	✓	
<b>Fibres</b>			
Basalt fibres, Glass 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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