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.

Karl-Liebknecht-Strasse 132
04277 Leipzig
Saxony
Germany
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	

Leipzig University of Applied Sciences for Technology, Economics and Culture

Institute for Building Materials and Construction Process Simulation

Overview of lightweighting expertise

Machine translation

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

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

Leipzig University of Applied Sciences for Technology, Economics and Culture

Institute for Building Materials and Construction Process Simulation

Overview of lightweighting expertise

Machine translation

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

	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			

Leipzig University of Applied Sciences for Technology, Economics and Culture

Institute for Building Materials and Construction Process Simulation

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Carbon-fiber reinforced plastics (CFRP)	✓	✓	
Fibres Basalt fibres, Glass fibres, Carbon fibres	✓		
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

Machine translation

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

Leipzig University of Applied Sciences for Technology, Economics and Culture

Institute for Building Materials and Construction Process Simulation

Contacts

Mr Dr.-Ing. Daniel Ehlig

daniel.ehlig@htwk-leipzig.de