

Rhineland-Palatinate University of Technology Kaiserslautern-Landau (RPTU)

Expertise in solid construction and building construction

About this organisation

Machine translation

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

The Rhineland-Palatinate University of Technology Kaiserslautern-Landau was created on 1 January 2023 by merging the TU Kaiserslautern and the Landau campus of the University of Koblenz-Landau. The Department of Concrete Structures and Building Construction, which is part of the Department of Civil Engineering, teaches, researches and tests in the areas of connections and joints, load-bearing structures and energy, design, concrete, masonry, wood and non-metallic reinforcement materials.

The research focus of the Chair of Building Construction and Precast Construction of Prof. Dr.-Ing. Matthias Pahn of the Department of Solid Construction and Building Construction is on non-metallic reinforcement with glass, carbon and basalt fibres in the form of inert reinforcement as an alternative to conventional reinforcing steel, short fibres and lamellae for external reinforcement, as well as other high-performance materials that are necessary for the realisation of innovative, lightweight structures.

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Main areas covered



Innovative solid construction

Infrastructure



Certifications

Keywords

Memberships



Organisation type
University or higher education institution

Sectors
 

Employees
10 up to 49

Turnover
n/a

Funding
n/a

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Testing and trials, Engineering, Standardisation, Validation, Simulation, Technology transfer, Approval	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & 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

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

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Contacts

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