

About this organisation

Machine translation

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

The University of Stuttgart is a leading technically orientated university in Germany with a global reputation.

Development of hybrid and intelligent construction elements in ultra-lightweight construction; research into functionally graded components in the construction industry; design, form-finding and dimensioning of membrane structures; development of systems and construction methods for textile building envelopes and investigations into their physical and structural properties; investigations into the material-compatible joining of fibre composites; expert activities in the field of textile construction and construction with glass; optimisation of the indoor climate; façade systems, e.g. switchable glazing; fluid-flow glass for shading and energy recovery.e.g. switchable glazing; fluid-flow glass for shading + energy generation

Pfaffenwaldring 14
70569 Stuttgart
Baden-Württemberg
Germany

www.uni-stuttgart.de/ilek/

Main areas covered

Ultralight construction

Infrastructure

Certifications

Keywords

Memberships



Universität Stuttgart

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			
Products Parts and components, Materials	✓		
Services & consulting Prototyping	✓		
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & automation			
Recycling technologies			
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

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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