

Composites United e.V. (CU)

Network CU Construction

About this organisation

Machine translation

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

The construction industry is a sector in which the topic of high-performance fibre composites is not yet established, but where there is enormous application potential. Against this background, Composites United e.V. (CU) has decided to further prepare, deepen and jointly promote the topic for its members. On 28 September 2017, "CU Bau" was therefore founded as CU's own specialist network.

Our vision is for the entire construction industry - clients, architects, planners, approval bodies and construction companies - to use construction products with fibre-reinforced concrete and polymer matrix with confidence and in accordance with the material and with the corresponding approvals. CU Bau, as the supra-regional specialist network of Composites United e.V., promotes the acceptance and widespread use of fibre-reinforced materials in the construction industry on behalf of its members from industry and science.

Oranienburger Str. 45
10117 Berlin
Berlin
Germany
www.composites-United.com/cluster/cu-bau/



Organisation type

Association, Chamber of industry and commerce

Sector



Employees

Up to 9

Turnover

n/a

Funding

n/a



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About this organisation

Main areas covered Construction industry, Lightweight construction, Fibre composite, Multi-material design, Carbon concrete

Infrastructure

Certifications

Keywords Construction industry, Lightweight construction, Fibre composite, Multi-material design, Carbon concrete

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Training, Consulting, Distribution, Testing and trials, Funding, Engineering, Standardisation, HR services, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair, Approval	✓	✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
Plant construction & automation Plant construction, Automation technology, Handling technology, Robotics	✓	✓	✓
Recycling technologies Downcycling, Material separation, Recycling, Upcycling	✓	✓	✓

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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

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	✓

Contacts

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Contacts

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