

About this organisation

Machine translation

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

SIMUTENCE is your highly specialised and independent partner for virtual construction and design with plastics, fibre-reinforced plastics and hybrids. Whether you are a machine or plant manufacturer, material or component manufacturer, engineering service provider or OEM - we are there for you and use our engineering and simulation methods to make your product and process development cycles as efficient as possible.

Our approach for the efficient development of products and manufacturing processes is the seamless connection of design, production validation and layout through our virtual process chain. This enables the virtual validation of the product and manufacturing process, which can significantly reduce the real effort and risk involved in the production start-up. We support you from the concept to the final validation and manufacture of your product. This is achieved by integrating process and warpage simulation into the digital product development cycle. As a result, product designs and manufacturing strategies can be efficiently developed and virtually validated at an early stage of development. SIMUTENCE offers training and consulting, independent engineering services and customised simulation approaches based on add-ons for established simulation software.

Rintheimer Querallee 2
76131 Karlsruhe
Baden-Württemberg
Germany
www.simutence.de



Organisation type

Small or medium-sized enterprise

Sectors



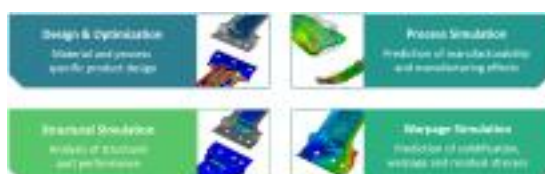
Employees

Up to 9

Turnover

Up to €2m

Funding



About this organisation

Main areas covered	Training, Counselling, Engineering services, Software add-ons
Infrastructure	Simulation methods, Process simulation, Structural simulation, Optimisation, Material characterisation
Certifications	
Keywords	Fibre composite, Composite, Simulation
Memberships	Composites United

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases	✓	✓	✓
Services & consulting Consulting, Engineering, Simulation, Technology transfer, Others (Software, material characterisation)	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Others (Creation of material cards for simulations, material characterisation)			✓
Modelling and simulation Loads & stress, Optimisation, Processes, Structural mechanics, Materials, Others (Forming simulation, mould filling simulation)	✓	✓	✓
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
Fibre composite technology Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (Injection moulding, RTM, extrusion, SMC, LFT)	✓	✓	✓
Forming Impact extrusion, Compression moulding, Thermal converting	✓	✓	✓
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming Injection moulding	✓	✓	✓
<i>Processing and separating</i>			
Textile technology Preforming	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	
Fibres Glass fibres, Carbon fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Woven fabrics, Nonwovens, mats	✓	✓	

Contacts

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Contacts

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