Corporate Technology, REE MDM

About this organisation

Machine translation

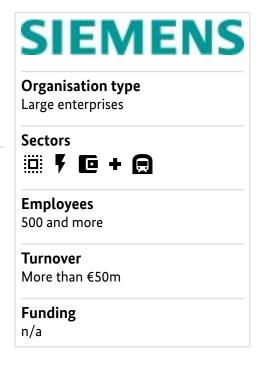
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Industrial research and development in the field of materials, design and manufacturing technologies

1. in the field of fibre-reinforced polymers: material development, simulation of components and processes, manufacturing technologies, prototypes, testing 2. design of lightweight structures and components

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☑ www.siemens.com/ingenuityforlife



Main areas covered	Digitisation, Automation, Electrification
Infrastructure	Laboratory and technical centre equipment
Certifications	ISO 9000 ff
Keywords	Electric flying
Memberships	

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Overview of lightweighting expertise				
Machine translation				
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	Research	Development	Manufacturing & Supply	
Offer				
Products Parts and components, Software & databases, Systems and end products	✓	~	✓	
Services & consulting				
Field of technology				
Design & layout Hybrid structures, Lightweight material construction	✓	~	✓	
Functional integration Actuator technology, Sensor technology, Material functionalisation	✓	~		
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓		
Modelling and simulation Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials	✓	✓		
Plant construction & automation Automation technology, Handling technology	✓	✓	✓	
Recycling technologies Downcycling, Recycling	✓			

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing & Supply Research Development Manufacturing process **Additive manufacturing** 3D printing, Deposition welding, Laminated object manufacturing (LOM), Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS) Coating (surface engineering) Galvanising, Painting, Plasma process, Sputtering Fibre composite technology Filament winding, Manual lamination, Pre-preg processing, Vacuum infusion **Forming Joining** Adhesive bonding, Soldering, Welding Material property alteration Mechanical treatment. Heat treatment **Primary forming** Sintering, Injection moulding Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Grinding, Cutting Textile technology

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing & Supply Research Development Material **Biogenic materials Bioplastics** Cellular materials (foam materials) Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal-ceramic composite, Nanocomposites **Fibres** Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres **Functional materials** Shape memory materials, Piezoelectric materials Metals Aluminium, Intermetallic alloys, Steel **Plastics** Thermoset plastics, Elastomers, Thermoplastics **Structural ceramics** Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics (Technical) textiles Yarns, rovings, Meshes, Laid webs, Woven fabrics, Knitted fabrics

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