About this organisation

Machine translation

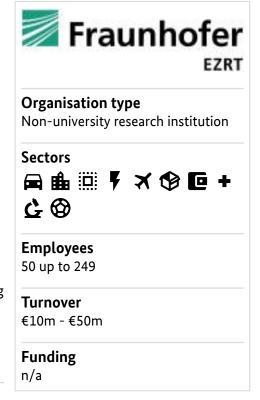
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The Development Centre for X-ray Technology EZRT is a division of the Fraunhofer Institute for Integrated Circuits IIS in Erlangen and works in close cooperation with the Fraunhofer Institute for Non-Destructive Testing IZFP in Saarbrücken.

The EZRT is a leading international research and development centre with core competencies in the field of non-destructive monitoring along the entire value chain of the product life cycle, from raw materials to production and recycling. It defines and expands the current state of the art in this field, in particular by means of imaging X-ray and magnetic resonance technologies as well as optical testing techniques. The topics of sensor technology and simulation for data acquisition, image processing for data improvement and evaluation (metadata acquisition), system development, measurement technology as well as applications and training are addressed. In accordance with the Fraunhofer mission, the EZRT positions itself between basic research in the field of non-destructive imaging and industrial utilisation with end customers and system integrators.

Flugplatzstraße 75 90768 Fürth Bavaria Germany

www.iis.fraunhofer.de/ezrt



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About this org	ganisation
Main areas covered	Industrial X-ray technology, Optical measurement and testing technology, Magnetic resonance, Scientific application, Education
Infrastructure	Extensive plant park, World's largest CT system, X-ray microscopes, Mobile test systems
Certifications	ISO 9001
Keywords	Product life cycle, Non-destructive monitoring, Cross-industry, Research and development
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Software & databases, Systems and end products, Materials, Tools and moulds	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer	✓	✓	~

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Overview of lightweighting expertise						
Machine translation This organisation has been machine-translated based on data provided in German.						
Field of technology						
Design & layout						
Functional integration Sensor technology	✓	✓				
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 Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Materials, Reliability validation	✓	✓	✓			
Plant construction & automation Plant construction, Automation technology, Handling technology, Robotics	✓	~				
Recycling technologies Material separation, Recycling	✓	✓	✓			

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verview of lightweighting expertise				
Machine translation				
his organisation has been machine-translated base	ed on data provid	ded in German.		
	Research	Development	Manufacturing & Supply	
Manufacturing process				
Additive manufacturing 3D printing, Laminated object manufacturing (LOM), Fused deposition modeling	~	~	✓	
Coating (surface engineering)				
Fibre composite technology				
Forming				
Joining				
Material property alteration				
Primary forming Extrusion, Casting, Pultrusion, Sintering, Injection moulding	✓	~		
Processing and separating				
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 Research Development & Supply Material **Biogenic materials** Bioplastics, Biocomposites, Wood Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbonfiber reinforced plastics (CFRP), Short fibrereinforced concrete, Metal-fibre-polymer composite, Metal-ceramic composite, Metal matrix composite, Nanocomposites, Natural fibre reinforced plastics (NFRP), Laminates, Particulate composites, Textile-reinforced concrete **Fibres** Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres **Functional materials** Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium **Plastics** Thermoset plastics, Elastomers, Thermoplastics Structural ceramics

leichtb (Technical) textiles

ceramics

Yarns, rovings, Meshes, Laid webs, Crocheted

Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics, Ultra-high-temperature

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Contacts

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

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