FH Münster

IKFM - Institute for Construction and Functional Materials

About this organisation

Machine translation

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

As an in-house institute of Münster University of Applied Sciences, the IKFM pools the materials science expertise of the Departments of Civil, Chemical and Physical Engineering, Mechanical Engineering and Architecture. As a research focus at Münster University of Applied Sciences, the IKFM is characterised by the interdisciplinary and transdisciplinary networking of the professors involved.

The core competences of the IKFM include: - Reactive polymers and speciality systems: polyurethanes, radical-curing high-temperature duromers, intrinsically antimicrobial polymers, PVC, customised compounds - Composites and seals - Analytical and material characterisations - Degradation and service life analyses - Clarification of wear and failure mechanisms (damage investigations) IKFM develops complete solutions for complex R&D issues in the field of applied materials science. The hallmark of the IKFM is the interdisciplinary and flexible collaboration of professors along process and value chains. An important focus is on sustainability through service life and function optimisation, reduction of material and energy consumption and recyclability of materials.

Organisation type
University or higher education institution

Sectors
No specific sector

Employees
50 up to 249

Turnover
n/a

Funding

Stegerwaldstraße 39
48565 Steinfurt
North Rhine-Westphalia
Germany
www.fh-muenster.de/ikfm/index.php

Main areas covered Reactive and speciality polymers, radically hardening thermosets, Composite materials and seals, Material analyses, Service life tests

Infrastructure

Certifications

Keywords

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Materials	✓	✓	✓
Services & consulting Training, Consulting, Engineering, Prototyping, Validation, Technology transfer, Others (Damage investigations)			✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures	✓	✓	
Functional integration			
Measuring and testing technology Component and part analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation			
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Others (Polymer compounding for plastic 3D printing (filament preparation))	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology Resin infusion process, Resin transfer moulding, Pre-preg processing	✓	✓	
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials) Closed-pore	✓	✓	
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
Fibres			
Functional materials			
Metals			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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