RWTH Aachen University
Foundry Institute

About this organisation

Machine translation

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

The Foundry Institute (GI) at RWTH Aachen University is one of the world's leading research and educational institutions for foundry technology.

We see research and teaching as a unit, as well as the combination of basic and application-orientated research. For us, an engineering education in which theory and practice are on an equal footing is the be-all and end-all of modern university teaching. The close cooperation with the affiliated institute Access e.V. as well as the ideally complementary collaboration of the four professorships in the Foundry Institute provide all institutions with an outstanding field of research with state-of-the-art plant technology and analytics.

Intzestr. 5
52072 Aachen
North Rhine-Westphalia
Germany
www.gi.rwth-aachen.de

Organisation type
University or higher education institution

Sectors
No specific sector

Employees
10 up to 49

Turnover
n/a

Funding
n/a

Main areas covered	Thin-walled cast iron, Light metal casting, Basic and applied research, Casting and microstructure simulation, Casting tests and analysis
Infrastructure	Casting laboratory, Metallography, Materials testing, Process and material simulation
Certifications	
Keywords	Thin-walled cast iron, Light metal, Additive manufacturing, Casting and microstructure simulation
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases, Materials	✓	✓	
Services & consulting Consulting, Testing and trials, Standardisation, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Optimisation, Processes, Materials	✓	✓	
Plant construction & automation			
Recycling technologies Recycling	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Others (Metal powder production)	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming Casting	✓	✓	✓
Processing and separating Drilling, Turning, Milling, Sawing			✓
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, Open-pore, Syntactic foams	✓	✓	✓
Composites Metal-ceramic composite, Metal matrix composite	✓	✓	
Fibres			
Functional materials			
Metals Aluminium, Magnesium, Steel, Others (Cast iron Nickel)	✓	✓	✓
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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