

About this organisation

Machine translation

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

The ISE is a non-profit, industrial research organisation that conducts industry-related and application-oriented research and development for and with SMEs. The focus is on lightweight structural design and energy efficiency from components to buildings as well as corresponding product and process development. The R&D work is characterised by the interdisciplinarity of the skills and trades involved as well as market and results orientation

The industrial research institute ISE focuses on the development and testing of innovative products and technologies in the fields of lightweight structural engineering and energy efficiency for applications in the construction industry, mechanical engineering, apparatus engineering and shipbuilding. The institute has the following core competences: - energetically active and passive component development for various branches of industry with the aim of increasing energy efficiency - highly insulating materials and their application in various fields of application - Energy-efficient and smart container structures - cellular materials and their application - Lightweight structural engineering - Innovative ship development for lightweight, energy-efficient, autonomous ships

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09113 Chemnitz
Saxony
Germany
www.institut-se.de



Organisation type

Non-university research institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a

Institute for Lightweight Structures and Energy Efficiency gGmbH

About this organisation

Main areas covered Energy-efficient buildings, Cellular materials, Lightweight building, Lightweight construction in the maritime sector

Infrastructure Solar laboratory, Load management laboratory, Pollutant laboratory, Energy efficiency laboratory

Certifications

Keywords

Memberships Association of Innovative Companies, Zuse Community, SIG

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Testing and trials, Engineering, Prototyping, Simulation, Technology transfer	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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Research Development **Manufacturing & Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Institute for Lightweight Structures and Energy Efficiency gGmbH

Contacts

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