ELISE GmbH

About this organisation

Machine translation

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

ELISE GmbH is a spin-off of the Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research founded in August 2018. The company is active in the field of bionic lightweight construction and supports its customers with software for the generative engineering product development approach.

ELISE GmbH pools the knowledge gained from more than ten years of research into natural lightweight structures and the application of this knowledge as part of development services for bio-inspired lightweight components, primarily in the automotive, aerospace and household appliance sectors. Based on this experience, ELISE GmbH is now developing software for automated component development, enabling its customers to create complex, functionally integrated lightweight structures in a significantly shorter development time. The software is therefore intended for development engineers who design highly complex components for defined applications and is particularly suitable for applications in the field of additive manufacturing (3D printing).

Organisation type
Small or medium-sized enterprise

Sectors

Employees
10 up to 49

Turnover
Up to €2m

Funding
n/a

Konsul-Smidt-Str. 8u
28217 Bremen
Bremen
Germany
www.elise.de

Main areas covered	Software for generative engineering, Automation of the PEP
Infrastructure	
Certifications	
Keywords	Generative Engineering, Additive manufacturing, Bionic design
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Training, Technology transfer		✓	✓
Field of technology			
Design & layout Lightweight design		✓	
Functional integration			
Measuring and testing technology			
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, Electron beam melting, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)		✓	
Coating (surface engineering)			
Fibre composite technology			
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)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Managing Director

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