

About this organisation

Machine translation

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

OmegaLambdaTec GmbH is an ambitious deep tech startup based in the technology centre gate Garching near Munich. Since 2015, we have been developing customised innovative data science and AI solutions in the fields of Smart Energy, Smart City, Smart Health and Industry 4.0. Our international data science team consists of experienced data scientists from the field of astrophysics.

Lightweight construction competences (general/focus):

- Data science and physics-based method, modelling & data analysis approaches with high-performance AI/ML algorithms for acoustic quality monitoring in Industry 4.0.
- Development, setup and implementation of real-time monitoring frameworks with variable data mining & analysis toolsets for use in additive lightweight manufacturing of various cross-industry products. Lightweight construction competences (experience of completed work):
- Design, build and implementation of a noise analysis infrastructure and AI anomaly detection pipeline for an urban smart city strategy to reduce traffic and record alternative traffic routes.
- Design and development of an automated AI data analysis infrastructure in the industrial production of wood-based materials for quality assurance of precision tools and tool systems along the entire process manufacturing chain.

Lichtenbergstraße 8

85748 Garching

Bavaria

Germany

[omegalambdatec.com](https://www.omegalambdatec.com)



Organisation type

Small or medium-sized enterprise

Sector



Others: Data Analytics

Lösungsanbieter

Employees

10 up to 49

Turnover

Up to €2m

Funding

About this organisation

Main areas covered	Data Science, Data analytics solution provider
Infrastructure	On-premise cloud solution, Cloud solution, Customised product development
Certifications	
Keywords	Smart Grid, Digital Twin Simulation, Smart Energy, Machine Learning / AI, Smart City, Smart Mobility
Memberships	Bitkom

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases, Systems and end products	✓	✓	✓
Services & consulting Consulting, Testing and trials, Prototyping, Simulation, Technology transfer	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight construction concepts	✓	✓	
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis	✓	✓	✓
Modelling and simulation Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
Plant construction & automation Automation technology	✓	✓	✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Fused deposition modeling, Selective laser melting (SLM, LPBF, ...)	✓	✓	
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

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

Ms Irina Kroh

Project assistance

irina.kroh@olt-dss.com

Mr Mag. Dr. Alexander Fritz

*COO & CISO & Head of R&D & Data Science
Lead*

Alexander.Fritz@olt-dss.com