

About this organisation

Machine translation

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

The Chair of Polymer Materials, headed by Prof Dr Holger Ruckdäschel, stands for practical polymer research and combines science with application and technology. We build on three strategic pillars - application orientation, digitalisation and sustainability.

Our research activities range from basic research projects to close co-operation with industrial partners. Our holistic understanding of processing, structure and properties helps us to develop innovative polymer materials and applications in a targeted manner. We have excellent technical equipment at our disposal for this purpose. From the very beginning, we orientate our research towards sustainability and application criteria - thus ensuring the transfer to industrial use. Modern digital technologies raise the speed and quality of our research to a new level. We prepare our students and graduates ideally for their future careers. Teaching the fundamentals of polymers and plastics technology is a key aspect, but is no longer enough today. We therefore integrate digital methods and sustainability concepts into our teaching.

Universitätsstraße 30
95447 Bayreuth
Bavaria
Germany
polymer-engineering.de/

Main areas covered

Polymer foams, Fibre-reinforced plastics, thermoplastics

Infrastructure

Certifications

Keywords

Memberships



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding



[Projects in the funding catalogue](#)

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
<i>Services & consulting</i>			
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 & factory automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming			
Extrusion, Injection moulding		✓	
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)		✓	
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics		✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

Mr Prof. Dr.-Ing. Holger Ruckdäschel

Chair holder

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