University of Bayreuth
Chair of Polymeric Materials

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/

Organisation type
University or higher education institution

Sectors
No specific sector

Employees
10 up to 49

Turnover
n/a

Funding

Technology Transfer Program Leichtbau

Projects in the funding catalogue

Main areas covered Polymer foams, Fibre-reinforced plastics, thermoplastics

Infrastructure

Certifications

Keywords

Memberships

University of Bayreuth
Chair of Polymeric Materials

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting			
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & factory automation			
Recycling technologies			
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming Extrusion, Injection moulding	✓		
Processing and separating			
Textile technology			

University of Bayreuth
Chair of Polymeric Materials

Overview of lightweighting expertise

Machine translation

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

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

Contacts

Machine translation

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

University of Bayreuth
Chair of Polymeric Materials

Contacts

Mr Prof. Dr.-Ing. Holger Ruckdäschel

Chair holder

ruckdaeschel@uni-bayreuth.de