



## Contact persons

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The RRI also sees itself as a competent partner for industry and for other research institutes and universities. The aim is to successfully collaborate on challenging projects with these partners and consciously involve students in projects.

## Research areas

Research at RRI specialises in 6 key areas:

- > Mobility
- > Sustainability
- > Intelligent products, processes and services
- > Innovation management
- > International management
- > Communication and information

## Contact

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## Research at Reutlingen University

As a result of the implementation of the Bologna process, research at universities for applied sciences has received a much higher profile.

Consequently, research has also gained considerable importance in recent years at Reutlingen University, and research has become one of the hallmarks of the University.

## The Reutlingen Research Institute (RRI)

The Reutlingen Research Institute (RRI) is the research hub of Reutlingen University. It is the central scientific institution at the University, where all activities in the field of research and development are bundled. The RRI provides researching professors from all faculties with an organisational platform. The RRI base serves as a service centre and provides a comprehensive range of services, from assistance in project acquisition to budget management and controlling.



## Research centres and groups

The practical application of research at RRI is done within research centres and research groups founded by RRI members with common research interests. Thus collaboration occurs, which have the effect of strengthening

and bundling competences and ultimately improving competitiveness in terms of project acquisition. There is a matrix structure related to the 6 areas of research. The current research centres and research groups are described in more detail elsewhere. In addition, individual projects are carried out by researchers who are not linked to a given centre or group.

Executive committee RRI management RRI base	Mobility	Sustainability	Intelligent products, processes and services	Innovation management	International management	Communication and information
Robert Bosch Centre for Power Electronics (RBZ)	●	●	●			
Logistics Centre	●		●	●	●	●
Process Analysis and Technology Research Centre		●	●			
Energy and resource efficiency research group		●	●			
Herman Hollerith Research Centre (HHZ)						●
Simulation research group			●			
Sports management research group		●		●	●	
Textile process engineering and product development research group		●	●			
Machine tools, manufacturing systems and control engineering research group			●			
Other individual researchers		●	●		●	

Blue dot = project

## Reutlingen Research Institute

Your Partner for Research and Development

**RRI**  
Reutlingen Research Institute



## Logistics research centre

The logistics centre brings research into logistics under the umbrella of the Reutlingen Research Institute. Professors tackle research and study themes around manufacture, manufacture and logistics system planning, automation in logistics and communications in logistics. The aim is to gain new theoretical and practical knowledge, as well as training students in terms of their own scientific knowledge. The research centre has an infrastructure which is on the cutting edge of technology and science.

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## Robert Bosch Centre for Power Electronics (RBZ)

The RBZ is a research and teaching network in which the Bosch Group, Reutlingen University and the University of Stuttgart participate. Research at the RBZ connects the areas of power electronics, microelectronics and design automation in an interdisciplinary manner. Power electronics is key to electric mobility and for a supply of power based on renewable energy. Research focuses on the characterisation, modelling and optimisation of the electrical and thermal characteristics of power semiconductors, the determination and improvement of the durability and longevity of power semiconductors, and the design of integrated analogue and smart power circuits.

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## Process Analysis & Technology Research Centre (PA&T)

The PA&T Research Centre is committed to industry-driven, application-oriented research in the field of knowledge-based production and intelligent product design.

Based on a causal understanding of the processes involved, tailor-made solutions are designed alongside industry partners in order to meet the increasing demands on technical processes and products in terms of performance, customer-specific quality expectations and resource efficiency. Research focuses on process analysis, photonics/spectral imaging, material characterisation, instrumental analysis, reaction engineering, reactive extrusion, design of experiment, chemometric data mining, statistics, multivariate data analysis and process modelling.

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## Energy and resource efficiency research group

The energy and resource efficiency research group deals with issues regarding the efficient use of energy and resources (primary energy, renewable energy, raw materials, recyclable materials, water, sewage, waste, human capital, etc.) in industry, in the home, and in the transport and service sectors. Research focuses on energy and material flow analysis, process analysis and optimisation, decentralised energy supply with combined heat and power generation, the testing and certification of cogeneration plants, the development of energy storage systems, virtual power plants and new concepts regarding the use of waste heat.

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## Herman Hollerith Centre for Research into Information Management (HHZ)

The HHZ Centre for Research into Information Management combines the scientific capacity of Reutlingen University's research groups involved in information management with the HHZ Böblingen branch in the field of "Enterprise Services Computing", as a coordinated contribution towards cooperative research projects and cooperative doctoral work at the "Hollerith Graduate Research School" jointly run with the University of Stuttgart and with other partners from the world of science and industry. The Herman Hollerith Centre is engaging with "Services Computing" – an important innovative and research issue of our time – and linking it to essential perspectives in current research: big data, enterprise and software architectures for services and cloud computing, semantic support, business process management, performance management and analytics, as well as strategic transformation projects for business and IT fields.

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