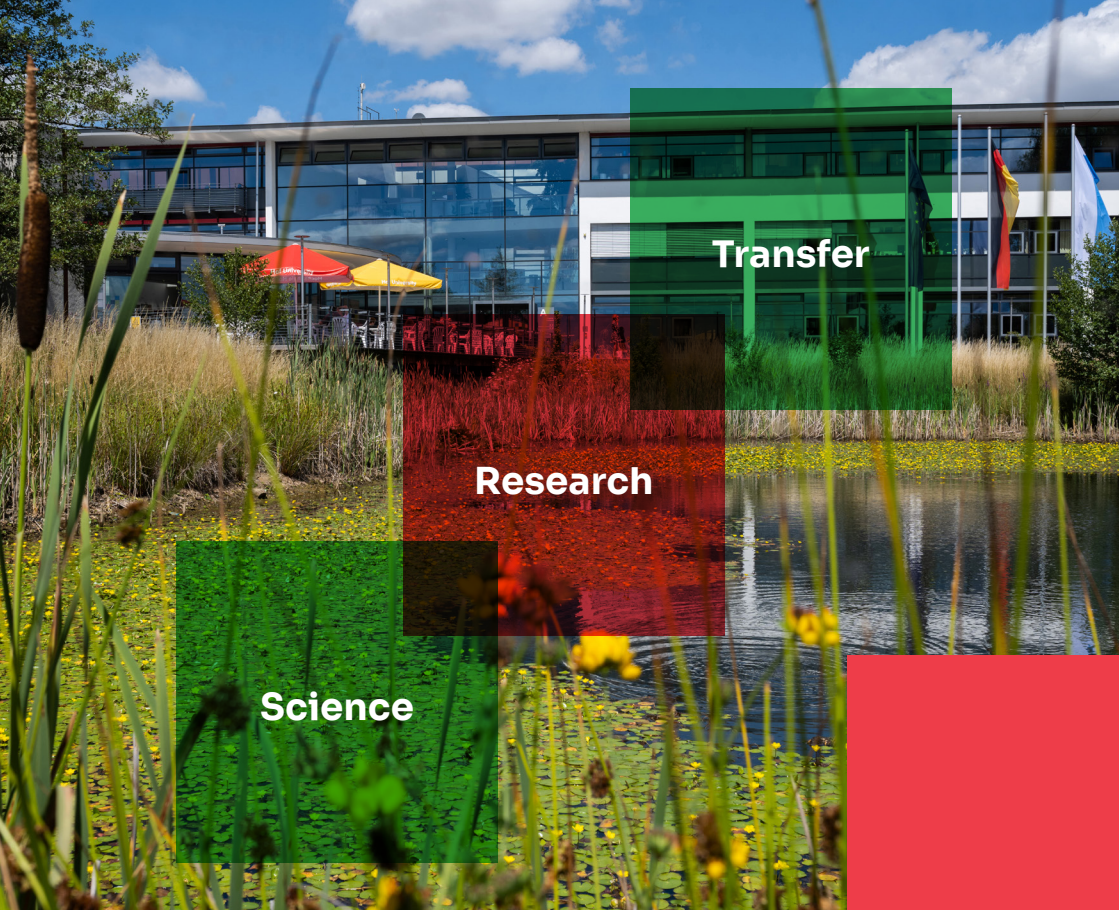




The Research
Hof University of Applied Sciences

#hierwirdknallhartgeforscht



Hochschule
Hof

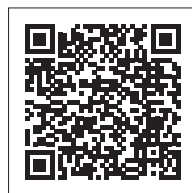
F&E

Research for the region's economy

Practical orientation, internationalization, and intelligent use of resources are the **focus of research at Hof University of Applied Sciences**. Currently, **six research institutes are working on promising topics** such as innovative healthcare, mobility, information systems, artificial intelligence, digitization and sustainability, textile technologies, the circular economy of biopolymers, energy and water management, sustainable water systems and economic and organizational research.

They support the region's economy in preparing for the future. **Their research and know-how transfer projects** offer regional companies direct access to international research and technology and create beneficial networks. Furthermore, we consider entrepreneurship a key competency, which is also reflected in academic spin-offs and research-based start-ups.

Hof University of Applied Sciences as a research driven institution works closely with stakeholders from business, science, politics, and civil society. With its **“third mission”**, the third pillar alongside research and teaching, Hof University of Applied Sciences brings scientific activities even more broadly into society.



join our events



Our research at a glance

- _ Six research institutes with over 121 scientific staff members, of whom 67 are female and 54 are male.
- _ 34 research professors
- _ 26 completed doctorates: promoting young talent through cooperative doctorates with renowned universities, around half of which are with professors from Bavaria's High-Tech Agenda; others are ongoing collaborations between industry and science
- _ Short distances, personal contacts, and quick implementation of new ideas
- _ Interdisciplinary collaboration between the institutes

Institute for Information Systems (iisys)

Competence for the future

iisys is a center of excellence for the **development and application of information systems** and works in an interdisciplinary manner with other disciplines at the university. Our **12 research groups** work in an application-oriented manner, currently in the fields of Industry 4.0, mobility, health, machine learning methods, knowledge systems, and compliance, as well as on the social, legal, ethical, and sustainable aspects of information systems.

As a strong **regional and national research partner**, we make IT-driven innovations available to companies. In interdisciplinary projects, we generate integrated, holistic solutions that are continued by IT partners in our network even after the project has ended. We actively connect our partners with IT topics which are relevant to them.



Typical fields of research

- _ Development of application-ready solutions in line with compliance requirements
- _ Development of intelligent human-machine interfaces
- _ Applications in the fields of mobility and Industry 4.0
- _ Software security and usable security systems
- _ Data analysis for medical applications
- _ Digital transformation in the industrial sector
- _ AI - based applications

contact: Prof. Dr. René Peinl, scientific director iisys
rene.peinl@iisys.de, Tel. +49 9281 409 4820

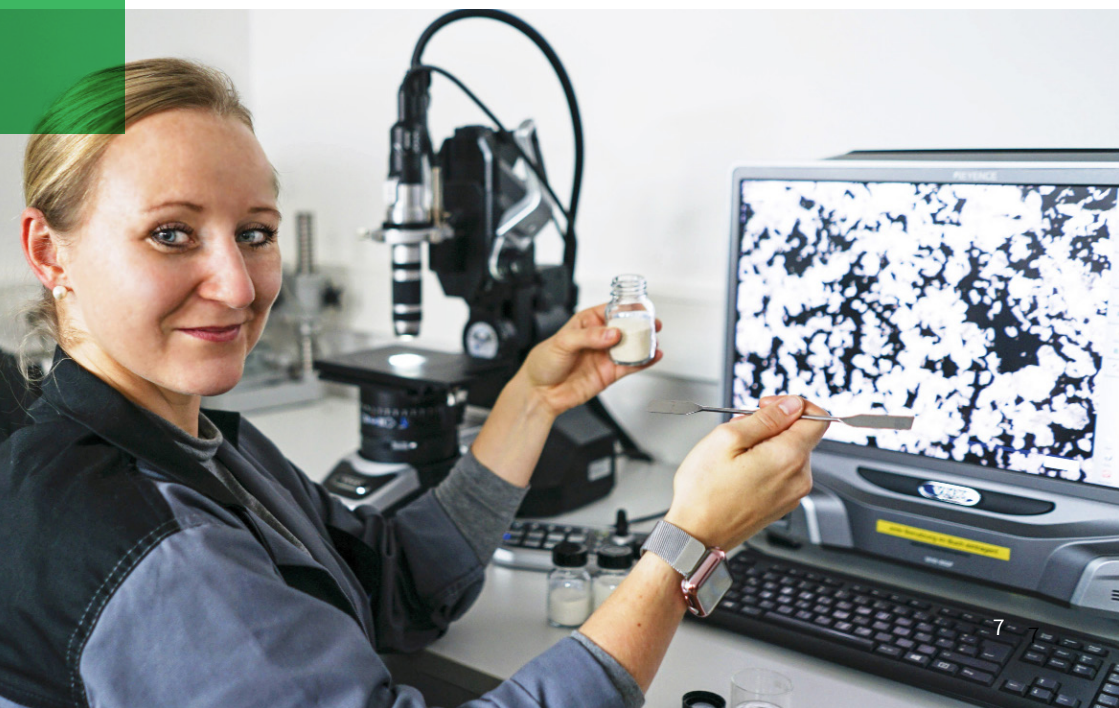
Institute of Materials Science (ifm)

Textile injection molding and coating technology

Founded in 2011, ifm develops new products and manufacturing processes in the **fields of textile technology and textile chemistry, composite materials, mechanical engineering, surface technology, and system materials**. It is characterized by its high level of expertise and technical equipment and is, among other things, a **technology leader in the manufacture of branched braids**. Our technical centers offer state-of-the-art facilities and laboratories covering more than 6,000 square meters at our locations in Hof and Münchberg. The historically grown textile campus was expanded in 2019 to include the Competence Center for Textiles (kzt) with the latest nonwoven technology on an industrial laboratory scale and a carbon technical center with circular needling and weaving machines, especially for processing inorganic materials. These ifm resources can be used for industrial and public research activities .

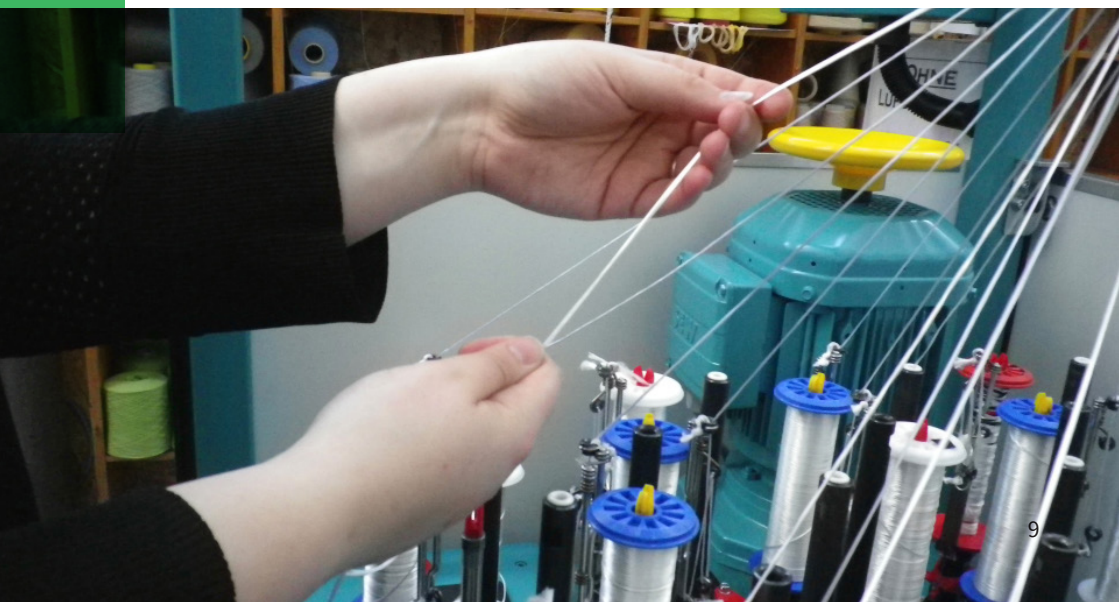
We see ourselves as a partner for application-oriented research and development-

projects and work nationally and internationally with companies from **the aerospace, automotive, construction, textile, and environmental technology industries**. We maintain **close and positive partnerships** with our customers and approach their concerns quickly, flexibly, and openly. We connect our partners and promote our areas of expertise through events such as the Hofer Space Day on materials and textile for space applications, and the well known Nonwoven Days of Hof. Additionally, the State Testing Office for the Textile Industry is affiliated with the ifm.



Research areas of the ifm

- _ Innovative textiles with research areas in composite materials and weaving and braiding technologies
- _ Nonwoven fabric technology
- _ Textile finishing and dyeing
- _ Mesh technology
- _ Injection molding and functionally integrated components (plastics processing)
- _ Surface functionalization (coating technology)
- _ Marketing innovative IoT business models



Institute for Hydrogen and Energy Technology (iwe)

Water – Energy – Society – Digitalization

The Institute for Hydrogen and Energy Technology focuses its research, development, and technology and knowledge transfer efforts on the **societal challenges of the energy and hydrogen transition** at GreenTech University Hof. Its main areas of focus are energy efficiency in industry, solutions for renewable energy generation and distribution, and hydrogen production processes.

In 2015, the institute was founded as the Institute for Water and Energy Management at Hof University of Applied Sciences. It combined research and teaching in the two megatrends of water and energy in order to further sharpen the university's profile in the field of green tech.



Research at iwe

- _ 5 research groups Energy management
- _ Around 15 research assistants

Center for Water and Energy

Our new, energy-self-sufficient institute building will itself be a research object with its pioneering technology. It was funded with 17 million euros from the Free State of Bavaria and is currently under construction.

Contact: Prof. Dr. Tobias Plessing, scientific director iwe
tobias.plessing@hof-university.de, Tel. +49 9281 409 4720

Institute for Sustainable Water Systems (inwa)

Sponge city – Sustainability – Photonics – Food production

The inwa focuses on applied research and development in the key areas of **sponge cities, photonics, and food production**. In addition to these areas of expertise, **sustainability and digitalization** are increasingly coming to the fore as cross-disciplinary topics and research areas in their own right. We are currently one of the few water researchers worldwide who are intensively examining the **role of humans in relation to technical solutions** and determining their significance for project success, especially in the areas of digitalization and sustainability.

We also develop special methods for practical knowledge transfer to effectively support small and medium-sized enterprises and local authorities in coping with increasingly complex challenges.

Contact: Prof. Günter Müller-Czygan, head of the inwa Institute
guenter.mueller-czygan@hof-university.de, Tel. +49 9281 409 4683



Institute for Sustainable Water Systems

The inwa was founded in March 2023 as part of the specialist division of its predecessor, the Institute for Water and Energy Management. Four research groups and around 20 research assistants focus on initiating and implementing application-oriented research and innovation development for partners in industry and the municipal sector.



Institute for Circular Economy of Bio:Polymers (ibp)

Extraction – Processing – Recycling

Many companies are currently facing the challenge of implementing sustainability in plastic products. Research at ibp focuses on innovative and sustainable processes and **products using bio-based and recycled plastics, as well as all renewable raw materials and the sustainable and efficient use of conventional plastics**. The aim of this work is to implement material solutions that use as little material as possible in a smart way and employ sustainable materials. Together with regional and international companies, we develop sustainable **films, manufacture packaging, and injection-molded articles for the agricultural, food, cosmetics, and automotive industries**. In addition to these developments in the plastics sector, we also conduct research into **sustainable building materials** made from natural **residues and waste materials**, and much more.



The institute sees itself primarily as a center of excellence for industrial applications with the aim of product development and resource conservation. With its active basic research activities in the field of biogenic residues, it also bridges the gap between the national and international research landscape.

Research areas at ibp

- _ Plastics processing on a pilot plant scale and, in particular, R&D on customized compounds
- _ Bio-based and biodegradable bioplastics
- _ Recycling materials and technologies
- _ Processing and utilization of biogenic raw materials and residues as additives for plastics processing and as building materials
- _ Product design and product development for a circular plastics economy.

Institute for Economic and Organizational Research (iwo)

Digital Transformation – Economy – Administration

The iwo focuses on strategic, operational-process-oriented, legal, and social interaction- and behavior-related issues of individuals in the economy and organizations. The applicability of the research findings is the main priority.

Our lives are changing rapidly. Processes and legal frameworks are in flux, just like social interactions. Our research institute provides answers to the questions of tomorrow, for example:

_How do new technologies influence the purchasing behavior of the Best Ager?

_How can the digital transformation of public administration succeed?



Since 2023, the Institute for Economic and Organizational Research has been your contact point for practice-relevant research projects on the digital transformation of business and administration.

Research groups and projects at iwo

- _Research Group BASe
- _Competence Center for Digital Administration
- _Research Group Digitalization & Sustainability
- _Democracy and Europe

A good environment for excellent research

A compact campus with room for new ideas

We are a small university with short pathways. Researchers and entrepreneurs know each other and can quickly get ideas off the ground. If an idea leads to the creation of a new institute, there is also room for that.

Maker Space – the high-tech workshop for experimentation

A hub for inventors and perfectly suited for realizing technical ideas, creating prototypes, and testing them. The centerpiece is a 3D printer with a printing volume of one cubic meter.

Einstein1 Digital Start-up Center

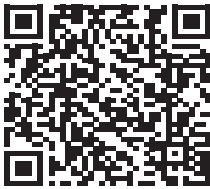
Right on the campus of Hof University, regional entrepreneurs can find support in developing their business ideas, help with financing issues, and networking opportunities with relevant players from business and science. The building offers co-working spaces, offices, conference rooms, and an event space.



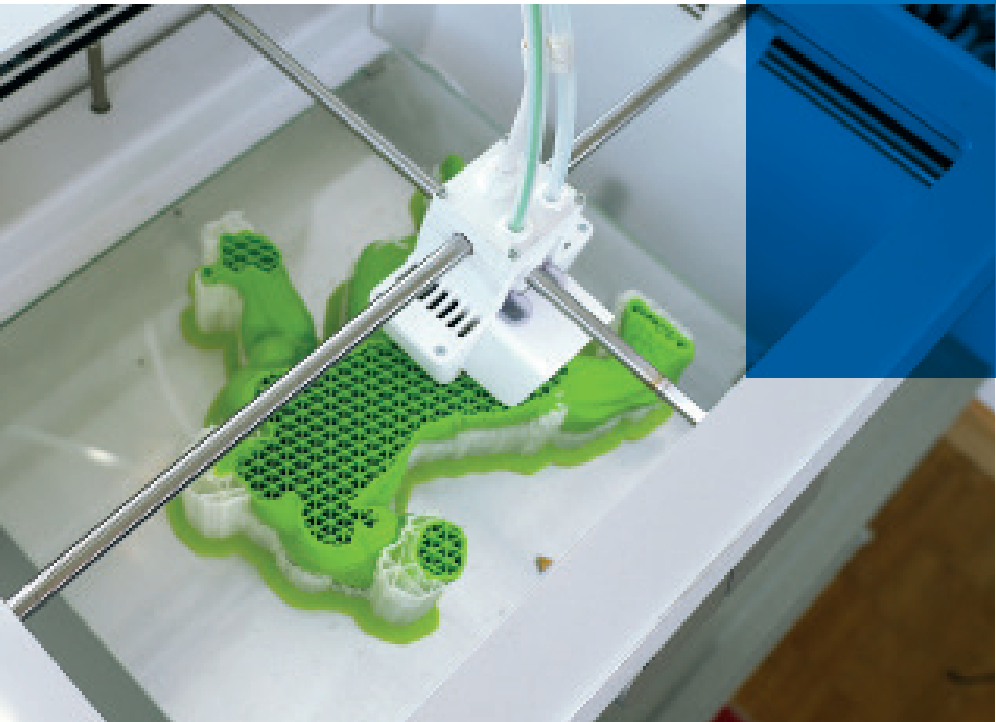
Green Tech University –

Research focus on resource efficiency

Securing resources for future generations is a focus that runs through all areas of activity at Hof University. Our research institutes collaborate on many interdisciplinary projects to develop sustainable solutions.



Sustainability at Hof University:
The Campus as a Living Environment





Research Information System (FIS) at Hof University

The Research Information System (FIS) is an online database containing all essential information about research and knowledge transfer at Hof University.

It also provides an overview of ongoing and completed doctoral theses at the university as well as publications by our researchers.



iisys

Institute for
Information Systems
at Hof University



inwa

Institute for Sustainable
Water Systems
at Hof University



ifm

Institute for
Materials Science
at Hof University



ibp

Institute for Circular
Economy of Bio:Polymers
at Hof University



**Research at Hof
University**



iwe

Institute for Hydrogen
and Energy Technology
at Hof University

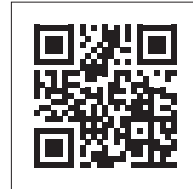
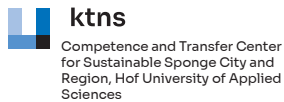


iwo

Institute for Economic and
Organizational Research
at Hof University

Competence Centers at Hof University

The researchers at the university are assigned to so-called „Competence Centers.“ This promotes interdisciplinarity between the institutes and, at the same time, makes it easier at first glance for partners and interested parties to find cross-disciplinary focus areas and research networks.





Hof University as an Employer

We offer a wide range of positions in various fields

At Hof University, you are welcome as a professor, lecturer for special tasks, scientific staff, as well as in non-academic areas.

Interested?

Contact: personal@hof-university.de



Here you can find
current job listings at
Hof University

#unfoldyourcareer

Our research podcast

Have you heard about our research podcast?

In the official podcast of Hof University of Applied Sciences, you can get to know the people behind the research topics: Anne-Christine Habbel, Head of Research Marketing, talks to guests about their everyday work and research, all in easy-to-understand German language.

You will also learn interesting facts about our research buildings, which have special features. And last but not least, we also give the institutes' research partners a chance to have their say: companies and organizations.

In the podcast takeover, university students also talk to student initiatives, thus bringing yet another perspective to the table.

The podcast is available on all popular platforms:

Spotify:



YouTube:



Science podcast:



Please contact us!



Vice President for Research, Development and
Entrepreneurship

Prof. Dr. Gerald Schmola

gerald.schmola@hof-university.de

Tel. +49 9281 409 4091



Head of Research Marketing

Anne-Christine Habbel

anne-christine.habbel@hof-university.de

Tel. +49 9281 409 6151

The research university



Research podcasts



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[@HomeOfResearch@
wisskomm.social](mailto:@HomeOfResearch@wisskomm.social)

Hochschule Hof

Alfons-Goppel-Platz 1

95028 Hof/Saale

www.hof-university.de

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