

Technische Hochschule Bingen – practical, personal, ambitious.



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**A university for technology
and natural sciences**

The University of Applied Sciences (UAS) Bingen has a tradition as an educational establishment for technical and natural sciences subjects stretching back over more than a hundred years. We will continue to maintain this focus in the future. By doing so, we can develop and strengthen competencies for the benefit of our students and partners.

A university of the region

Our university is committed to the region. The courses we offer are geared especially to local needs and potential. For this reason, we network on many levels with companies, institutions and the people from our home area.

The quality of today's education determines tomorrow's quality of life.

Improvement of living and working conditions

We are convinced that technical and natural sciences subjects in particular make a major contribution to ensuring a viable environment for future generations. Our university has therefore dedicated itself to practice-oriented education and applied research. Technical innovations which contribute to protecting natural environmental resources are a key priority for us.

Constant dialogue und intensive transfer

We know that technical knowledge is not enough as a positive impulse to preserve our shared world. This is why in our academic programmes we attach equal importance to our students acquiring social competence. Its compact size and personal atmosphere play a key role in everyday life at the university, strengthening the dialogue between students and teaching staff.

Of high importance from the outset: lifelong learning

For us, cooperations and the transfer of knowledge and technology belong to our core activities. The numerous research projects with companies pursued in our institutes and facilities are a prominent sign of this ongoing exchange. However, we want to bring knowledge directly to people in their professions and therefore committed ourselves earlier than many others to lifelong learning with our extra occupational study programmes.

Bingen is our home, the world our oyster

While we draw strength from our regional roots, international exchange and globally oriented research themes are of equal importance. In our globalised world, acquiring intercultural competence is essential. We are committed to increasing the proportion of foreign students here, and for our students we facilitate a study period abroad by integrating this opportunity in the Bachelor's degree programme.





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Technische Hochschule Bingen – milestones in its history

- 1897 Rheinisches Technikum (Rhine College of Technology) with the departments of Mechanical Engineering and Electrical Engineering, founded by Hermann Hoepke
- 1937 School of Engineering Bingen am Rhein
- 1964 State Rhine School of Engineering
- 1971 Integration in the new Rhineland-Palatinate University of Applied Sciences with the departments of Mechanical Engineering, Electrical Engineering, Process Engineering and Agriculture
- 1987 Inauguration of the new university campus
- 1990 New department Environmental Protection
- 1996 The University of Applied Sciences Bingen became an autonomous campus
- 2006 Restructuring of all courses to offer Bachelor and Master's degree programmes as part of the Bologna reforms
- 2016 Technische Hochschule Bingen

Forward thinking is a tradition here – offering a hands-on curriculum and application-oriented research since 1897.

On the ball from the very beginning

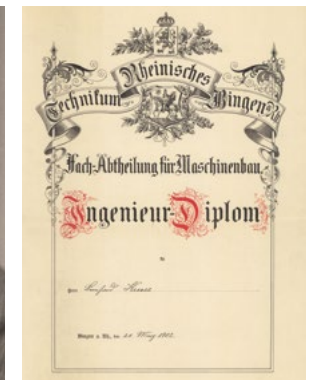
As far back as when the Rheinische Technikum was founded in Bingen in 1897, it was clear that there existed an instinct for what would be important in the future. Electrical engineering and mechanical engineering were still young emerging disciplines in the field of academic study. Today, they are the driving forces of our world. The university has retained this pioneering spirit: for instance, in the mid-70s we were the first university in Germany to offer a focus on environmental protection. As the first extra occupational Bachelor's degree programme in the 90s, Process Engineering was a new departure in the engineering sciences.

Bachelor's and Master's: hands-on curriculum and scientific expertise

Our university was much faster than others in changing over to Bachelor's and Master's degree programmes. Today, we offer an attractive and competitive range of Bachelor's degree programmes with intensive periods of practice phases and opportunities for study abroad. Our applications-oriented Master's degree programmes follow on seamlessly.

Focus on people and careers

Our wide range of part-time programmes for trainees and young professionals meets the requirements of companies and their employees for a better dovetailing of academic education and practical experience in their personal career planning. With around 2,500 students, the university has remained fairly small. Our professors, lecturers and staff provide students with excellent individual support. This commitment has regularly resulted in outstanding evaluations in rankings, ensuring that our graduates are sought-after candidates among companies – not only here in the region.



Innovation in education – education for innovation

Our courses are developed in collaboration with all stakeholders. First and foremost, of course, this involves the students of today and tomorrow as well as companies primarily from the region. But the university is also guided by tasks concerning the whole of society, like environmental protection, the development of renewable energies, management of growing mobility, shaping the information society, and the development of the urban and rural habitats of tomorrow. We can only do this by constantly reviewing and improving our teaching and research excellence. Course content and schedules geared towards the needs of industry are the result, that you will not find elsewhere in Germany.

Universities are service providers to society – practical relevance is therefore essential for us.

of applied science

We support the ideas behind the Bologna process. With the Master's degree courses, it has brought the first multi-level education programme to our university. It has also opened up the opportunity for our graduates to undertake doctoral research. With the rigorous realisation of the 7-semester Bachelor's degree and the subsequent 3-semester Master's degree programme we have found the ideal way of giving our students an application-oriented education.

Two departments – one mission: practical relevance

The names of our two departments – Life Sciences and Engineering, and Technology, Computer Science and Economics – indicate the wide spectrum of courses the university has to offer. Many of our courses have been developed in collaboration with industry or other external partners, for instance Process Engineering, Renewable Energy Management, Energy Operations Management and Mechanical/Production Engineering. Mobile Computing and Renewable Energy Management are two completely new and unique courses of study which have been introduced to our range of degree programmes. Our extra occupational Process Engineering degree programme has served as a model for professional development since 2002. The new Master of Advanced

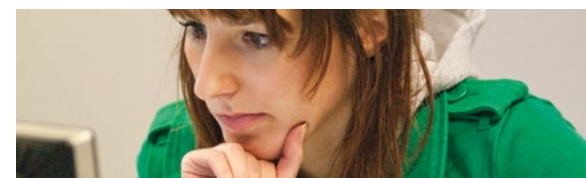
Studies in Energy Operations Management further strengthens the cutting-edge position of the university in the energy sector.

Companies are the university's motivators

Improvement in the quality of our degree programmes is not only due to intensive dialogue with companies. As a result of this close cooperation, company representatives frequently come to lecture at our university. They bring the latest know-how, and together with internal quality initiatives they ensure that we do not become complacent.

Local and international networks – the university open to all

Creative forms of providing education beyond the curriculum strengthen the links with our partners. School projects, taster weeks, children's university and a partnership with "Jugend forscht" (a German junior research programme) are representative of our commitment to make technical sciences appealing to youngsters of the region. Summer School and Study Semester (both held in English) along with an exchange programme with Shanghai, which we offer as a member of the consortium of universities involved in the Sino-German University of Applied Sciences (CDHAW), all serve to systematically expand our international contacts around the globe.





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An open ear for your ideas and needs
The fact that the university is organised in competence centres and institutes enables the quick and flexible realisation of research and technological projects with industry. The Institute for Innovation, Transfer and Consulting (ITB) is the first and most important point of contact for the collaboration with us and our experts.

Research priorities on the key issues of our time
The university, its institutes and competence centres are advancing in the five fields of energy, computer science, mobility as well as environment and agriculture. In the process, we pursue primarily interdisciplinary research projects.

Our open-minded way of thinking and working creates room for new insights.

Avoiding waste: our focus on energy

The Transfer Centre for Rational and Renewable Energy Consumption in Bingen (TSB) passes on the knowledge of the university to professional users in the form of conferences, studies, energy concepts or consulting. The Institute for the Management of Geothermal Resources (igem) covers this specific field of renewable energy, conducting research and giving advice on geological and technical issues.

Computer science – our networks are constantly expanding

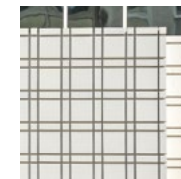
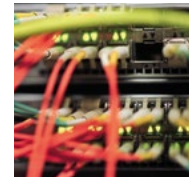
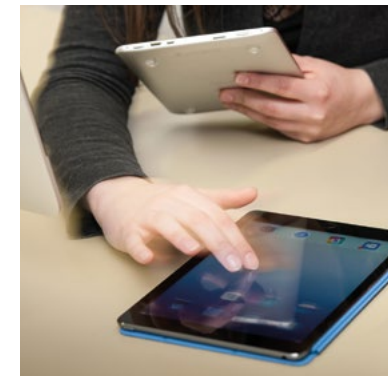
The Competence Centre for Innovative Information Systems (IIS) specialises in integrated technologies and applications. Especially heterogeneous information systems, that is to say information from diverse sources and for a variety of access possibilities, are a constant source of new challenges. Over the years, regional information systems and information systems for the agricultural sector combined with mobile terminals have emerged as special areas of focus.

Mobility in tomorrow's world: electric, intelligent and sparing with resources

Electric mobility provides UAS Bingen with a further forward-looking research focus. Not only new concepts for the conversion of cars to electric-driven vehicles are investigated here, but also the application of solar technology in operating a solar filling station. The Competence Centre for Mechatronics and Automobile Systems (KompMAS) brings together the fields of electrical engineering, information technology, materials and production technology in order to secure mobility for future generations.

Environmental protection – we make a lasting impression

The Institute for Environmental Studies and Applied Research (IESAR) conducts studies on the topics of environmental legislation, economics and management, with a particular focus on international cooperation. Carbon footprints of products, the environmental investment radar and guidelines on environmental liability are exemplary solutions originating from Bingen for the world.



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The University of Applied Sciences Bingen considers itself a service provider

First and foremost, we are here for our students. As a university with a personal touch, we can also offer very intensive support and guidance, and are at our students' side when it comes to advice on work placements, study periods abroad and starting their career. We are also in a position to assist companies in a variety of ways. Essential information on what we have to offer and details of the people to contact have been put together for you here.



Put us to the test, we will be fascinated to hear your ideas.

The companies' choice: partner, client or sponsor

Companies can benefit from the university in a variety of ways – and they do not have to be located in the region to do so. Work with us to develop fields of research or even courses of study. Entrust us with specific research assignments or technological projects. Cultivate talented individuals with us or draw on our accumulated knowledge.

Communication – the starting point

Lectures and symposiums are one way of coming into contact with us and finding out what topics we are involved with. This is not a one-way street, though. Our experienced colleagues are happy to assist with your specialist events in terms of content. Just come and see us. We welcome any suggestions you may have and will be happy to develop a new event format with you or examine a technical issue more closely.

Education and continuing professional development

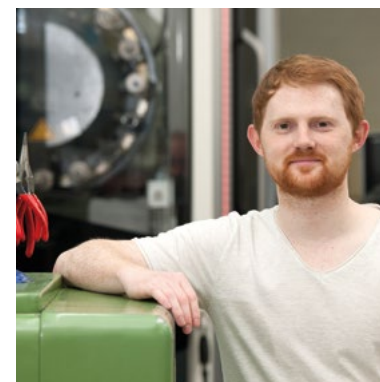
If you are interested in the subject of training and professional development for your employees, you are not limited to the extra occupational study programmes we offer. It is often worth discussing with us which of our courses is most suitable for your company or whether your requirements might be the basis for the next advanced training programme or a new course of study.

Your problems – our challenge

The majority of our research projects come directly from industry. Whether the tasks are large or small, our researchers and students are inspired by your work and your questions. You can also give us very specific tasks from analysis to implementation.

Nurture knowledge in the region with us

Sometimes seeds must be sown in order to reap the fruits later on. Science is very similar in this respect. The Germany Scholarship is an instrument with which you can provide selective support today to the talents of tomorrow.





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