



WATER RESOURCE MANAGEMENT

Bachelor of Science



Hochschule für Forstwirtschaft
Rottenburg
University of Applied Sciences

Real close. Far ahead.



„EXZELLENZHOCHSCHULE“
Stifterverband
für die Deutsche Wissenschaft

5x OFFIZIELLES
**PROJEKT DER
WELTDEKADE**
2006 - 2014

Learning for the needs of tomorrow!

With nearly 1,100 students, the University of Applied Forest Sciences (HFR) is a small but future-oriented University of Applied Sciences. The curricula are based on employment-related fields of the future.

In its courses, the university develops cross-sectoral solutions in the fields of forest management, timber industry, nature and environmental protection, landscape planning, water management, sustainable regional management, resource-efficient building and renewable energies. These programmes focus on transferring knowledge and skills for the material and energetic use of renewable resources and responsible use of scarce resources.

Graduates have excellent employment prospects.

The HFR was awarded UNESCO prizes every year from 2006 to 2014 for their forward looking educational offer. It is thus one of 16 institutions from over 1,800 award-winning projects. It also won the university competition "Excellence strategies", organised for small and medium universities by the German science foundation.

Sustainability as a theme

Within the country, HFR is among the universities with the clearest training and research profiles due to its consistent orientation of all programmes towards the principle of sustainability. It prepares students for their professional career with a comprehensive academic education (key skills and expertise).

As a result, the application-oriented combination of research and teaching forms a solid unit. HFR offers 5 Bachelor's and 3 Master's programmes.

The university maintains close contacts with numerous partner universities in many European countries and worldwide. These collaborations primarily serve international student exchange.

The clear layout of the university and its historic campus ensures a familial atmosphere and short walking distances. This allows students to be advised individually, which significantly contributes to more pleasant and effective studies. The location surrounded by forest and orchards offers many opportunities for outdoor teaching events.



"With us, knowledge and expertise on sustainability is acquired through individual studying."

PROFESSOR DR. DR. H.C. BASTIAN KAISER, RECTOR



"A university education for the future"



Blue future - water! The most precious resource on earth!

Although the earth as a blue planet has extensive water reserves, only a very small proportion is suitable as drinking water and its availability extremely different from one region to another. Access to clean drinking water is missing for 1.2 billion people, 2.5 billion people lack sanitation and adequate waste water disposal. Due to high population growth, an intensification of agriculture and a changed consumer behaviour, the demand for high quality water is rising worldwide.

There is already an extreme water crisis, especially in many developing countries. But even in water-rich countries such as Germany, guaranteeing high standards in water supply is becoming increasingly problematic. Not only global phenomena such as climate and demographic change are responsible for this, but also hazardous substances in the water and competing demands on use. In the mid-1980s the former Foreign Minister of Egypt, Boutros Boutros-Ghali, already predicted that: "the wars of the 21st century will not be fought over oil, but over water." Sustainable use of the water resource is a crucial aspect to ensure global sustainability and affects us all.



A unique programme!

The Water Resource Management (B.Sc.) programme offered at Rottenburg is unique in form since it addresses both natural and social science and technical aspects of sustainable water management and links them.

Students deal with current and future national and international water issues and try to find interdisciplinary solutions for existing and emerging challenges in the water sector. Since sustainable use of water resources is possible only with interdisciplinary approaches, particular emphasis is placed on transmitting knowledge about interfaces and methodological skills.



Relevant for practice. Close to nature.

HFR places particular emphasis on high practical relevance. Numerous excursions and field exercises provide insights into future career fields. Project work and group projects go beyond the subject content to transfer social skills that are essential for the profession. The inclusion of teaching staff who come directly from professional practice, as well as the professional experience of all teaching staff, guarantee sound practical relevance.

Part of the courses is held in the form of field trips, practical exercises and project and group work. The integrated internship particularly enables students to put the knowledge acquired during their studies into practice. Students can make initial contacts with future employers or find topics for Bachelor theses.

The duration of the internship allows students to be integrated in projects and to take on responsibility, but also to split the semester into two shorter partial internships and thereby to gain experience in two diverging topics or regions.

The proximity of the Neckar and other water bodies enables practical programmes to be carried out, including limnology. Analysis of water quality can be conducted, e. g. on Lake Constance, using own boats and the mobile laboratory on the spot. More comprehensive analyses are possible in the well-equipped water laboratory of the university.

B.Sc. degree programme overview

1 st sem.	BASIC PROGRAMME Technical, natural and social sciences basics of water management, key competencies (IT, presentation techniques, technical English)
2 nd sem.	
3 rd sem.	MAIN PROGRAMME PART 1 More detailed studies, i. a. conservation, land use planning, technical infrastructure, geographical information systems, development cooperation, environmental policy and legislation
4 th sem.	
5 th sem.	INTERNSHIP
6 th sem.	MAIN PROGRAMME PART 2 Development cooperation, tourism, risk and crisis management, project management, ecotoxicology, consulting, etc. Bachelor thesis
7 th sem.	
BACHELOR OF SCIENCE (B.Sc.)	



Excursions abroad are a fixed component of the programme, e. g. to the south of France in 2013 and to southern Morocco in 2015, with the main topic of water management and availability as well as tourism.



You have great development opportunities here. And great career prospects.

Students in this programme will be trained for expert and managerial roles in the following fields:

- Nature and environmental conservation (e.g. renaturation of water bodies, wetland management, water pollution)
- Water management (e.g. high and low water management, ground water management)
- Sustainable tourism (e.g. water tourism, tourist successor usage concepts for raw material mining areas)
- Development cooperation (problem areas in water supply and disposal, sustainable handling of water resources)
- Political consulting, consulting and water-related regional and landscape planning
- Sanitary engineering and industrial water management
- Public administration (authorities with water-related ranges of tasks, such as public utilities, water authorities).

Further qualifications

Former graduates work for water authorities, public utilities, various engineering offices as well as at project locations (Integrated Rhine Programme).

A further qualification in a different Master's programme is possible due to the broad-based study programme. The spectrum of recent graduates ranges from social-scientific (planning or governance), scientific (ecotechnology, environmental geography) to technically oriented Master's programmes (engineering with specialisation in water management, respectively majoring in water management). In addition to various colleges and universities in Germany, more and more international Master's degree programmes are taken in Austria, the Netherlands, Great Britain and Sweden.

10 REASONS

to study Water Resource Management in Rottenburg

Unique programme

High practical relevance

Individual advice

Wide-ranging international contacts

Close linking of research and studies

State-of-the-art lab equipment

Great career prospects

Wide variety of Master's programmes for further qualification

Pleasant area with outdoor teaching activities

Manageable size and familiar atmosphere



Rottenburg - loveable and liveable

Buildings spanning styles from eight centuries make up the cityscape of the idyllic town on the Neckar river (e. g. medieval and gothic churches or baroque chapels).

A variety of traces dating right back to Roman times bear witness to an interesting past. At carnival time, things get a bit crazy in the city and every year there is a temptingly interesting range of cultural events offered.

Rottenburg offers attractive and affordable living space, with plenty of shopping opportunities and a good range of recreational activities.

Its location halfway between Stuttgart and Lake Constance, between the Black Forest and the Swabian Alb, as well as good transport links to the motorway make Rottenburg an ideal starting point for trips into the region, both close by and further afield.

The state capital is only 50 km away, and the university town of Tübingen is 12 km away. Both towns are easily accessible by train.

Further information on Rottenburg at: www.rottenburg.de



In Rottenburg, it is easy to find a suitable room. There are plenty of shared student houses and affordable rooms in dormitories just minutes away from the university.



Getting started

Study programme information day

Twice a year, there is a programme information day at the university. Students and prospective students have the opportunity to attend lectures on the programmes, to participate in a tour of the campus and to talk to professors and students. The dates are on our website.

Access to higher education

There are several ways leading to a degree at the University of Rottenburg: from the general university entrance exam to professional qualifications. For more information, consult our website.

Application process

Programmes start in the winter semester. The deadline for application is July 15th (late applications will not be accepted). The application can be filled out online starting in the middle of April each year. Detailed information can be found on our website.

To apply for a student place at any university in Baden-Württemberg, a certificate of participation in an orientation test is required. (www.was-studiere-ich.de)

www.hs-rottenburg.de

Do you have any questions about the programme?



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Do you have any questions about applying?



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Other programmes:

Bachelor of Science

- Forest Management
- Sustainable Regional Management
- Renewable Energies
- Wood Management and Technology

Master of Science

- Forest Management
- Resource-efficient Building
- SENCE (Sustainable Energy Competence)

University collaborations

UNIVERSITÄT HOHENHEIM



EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



Hochschule Ulm



University of
Applied Sciences

Hochschule Esslingen
University of Applied Sciences



Hogeschool
VHL
University of Applied Sciences

Hochschule
für Technik
Stuttgart