RESOURCE-EFFICIENT BUILDING

Master of Science



Hochschule für Forstwirtschaft Rottenburg

University of Applied Sciences

Real close. Far ahead.

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 focuse 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 awardwinning projects. It also won the university competition "Excellence strategies", organised for small and medium universities by the German science foundation.

Sustainability as a theme

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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 sustainablity. It prepares students for their professional career with a comprehensive academic education (key skills and expertise).

EXZELLENZHOCHSCHULE⁴

Stifterverband

ür die Deutsche Wissenschal

PROJEKT DER WELTDEKADE 2006 - 2014

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 expetise on sustainability is acquired through individual studying." PROFESSOR DR. DR. H.C. BASTIAN KAISER, RECTOR

"A university education for the future"

Study Resource-efficient Building!

The Master's programme in Resourceefficient Building is aimed at graduates of Bachelor's programmes in architecture, civil engineering, wood management and technology, renewable energies and related disciplines who wish to acquire comprehensive knowledge and network skills in resource-efficient building management.

The building industry as well as building itself are key engines of modern national economies. Performance in the sector vitally depends on environmentally protective handling and efficient use of materials.

Thus, especially renewable raw materials such as wood offer enormous potential thanks to their exemplary environmental performance and specific technological properties.

Sustainability and resource-efficiency are key skills for future-capable building.

- Resource-efficient building means using raw materials along the entire building cycle in a sensible way.
- Resource-efficient building is therefore an endeavour to keep the use of sustainable resources as low as possible.



- Resource-efficient building is the decisive qualifying characteristic when it comes to the integrated planning and implementation of sustainable building concepts.
- Our team of university professors, external lecturers and guest lecturers guarantees a competent education that is geared to dealing with today's realities and tomorrow's needs. For us, technical and didactic excellence, value-creating thinking and action, practical teaching and research, plus personalised attention, go hand in hand.



Close to practice. Close to research.

HFR places particular emphasis on high practical relevance. Numerous excursions to innovative companies in the building sector and practical exercises at the university's own technical centre provide varied insights into possible future employment areas. Project work and group projects go beyond the subject content to transfer social skills that are essential for the profession. The integrated internship offers the opportunity to put the knowledge acquired during the studies into practice, to make initial contact with potential employers and to find topics of practical relevance for the thesis.

In addition, students have the opportunity to improve their profile, such as DGNB Registered Professional. The programme is arranged in 13 modules with a total of 28 courses - including the practical project and the Master's thesis.

The first semester deals with aspects of materials science, materials development, building physics, energy systems, designing, visual design and calculation.

The second semester concentrates on questions of cost management and marketing, resource-efficient building, sustainable energy concepts as well as communication and project management.

During the third semester the focus is on research methods, spatial planning, process analysis and the practical project.

The fourth semester is reserved for the preparation of the Master's thesis. Supervising professors offer support in this regard.



Programme overview

1st SEMESTER

Building materials & material development, building physics & energy systems, architectual design, structural engineering in timber structures

2nd SEMESTER

Cost management and marketing, resource-efficient building, sustainable energy concepts, communication and project management

3rd SEMESTER Research methods and design, resource-efficient space planning, process analysis, practical project

> 4th SEMESTER Master's thesis

MASTER OF SCIENCE (M.Sc.)



Numerous excursions to renowned trade fairs and companies are an integral part of the programme.



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

Graduates of our Master's programme are proven experts for planning, consulting and implementing resource-efficient building projects with a focus on wood.

They stand out for their high technical competence, creative thinking and the ability to develop viable solutions for healthy and ecological building.

As highly qualified technical and managerial forces they have access to versatile professional perspectives.

Numerous work disciplines

In addition to being self-employed, potential employers for our graduates include:

- Architectural and engineering offices
- Wood building companies
- Wood materials and insulation
- Organizations and ministries
- Prefabricated housing
- Public administration
- Business consulting

10 REASONS

for Resource-efficient Building in Rottenburg

Interdisciplinary study form

Personal atmosphere

Individual advice

High practical and research relevance

Large technical centre

Excellent networking

Profile-enhancing extra qualifications

Studying in the countryside

Affordable housing

Great career opportunities



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



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 applications 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-Wuerttenburg, a certificate of participation in an orientation test is required. (www.was-studiere-ich.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.

Do you have any questions about the programme?



Prof. Dr.-Ing. Jochen Wüst Head of studies

Tel. +49 7472/951-161 Fax +49 7472/951-200 e-mail msc.bauen@hs-rottenburg.de

Do you have any questions about applying?



Silke Lippert General student advice

Tel. +49 7472/951-257 Fax +49 7472/951-200 e-mail zsb@hs-rottenburg.de



Hochschule für Forstwirtschaft Rottenburg

University of Applied Sciences

Schadenweilerhof 72108 Rottenburg a.N.

Tel. +49 7472/951-0 Fax +49 7472/951-200 e-mail hfr@hs-rottenburg.de

Other programmes:

Bachelor of Science

- · Forest Management
- · Sustainable Regional Management
- · Renewable Energies
- · Wood Management and Technology
- · Water Resource Management

Master of Science

- · Forest Management
- SENCE (Sustainable Energy Competence)

University collaborations







EBERHARD KARLS UNIVERSITÄT TÜBINGEN





Hochschule für Technik Stuttgart

Hochschule Esslingen University of Applied Sciences