hochschule burgenland
University of Applied Sciences

BACHELOR
GREEN ENGINEERING*



UNITING THE EXCEPTIONAL.

hochschule-burgenland.at

** subject to accreditation by AQ Austria*

BACHELOR'S DEGREE PROGRAMME

GREEN ENGINEERING*

mehr Infos zum Studium



„In the Bachelor's Degree Programme in Green Engineering, you learn to combine sustainability, technology and business. You develop renewable energy systems, design resource-efficient products, plan sustainable water management and think circular."

Christian Wartha, Head of Department

The Bachelor's Degree Programme in Green Engineering combines solid engineering knowledge with targeted solutions for climate protection and global transformation. Going beyond theory, students learn how technical processes are structured and how to design them to be consistently sustainable.

The degree programme is aimed at aspiring professionals who want to develop practicable solutions regarding energy, materials and the circular economy, and so help to tackle pressing ecological challenges.

** subject to accreditation by AQ Austria*



CAREER OPPORTUNITIES

Graduates work at the intersection of technology, ecology and business. They typically find jobs in:

Circular economy & life cycle engineering: Developing circular products (ecodesign), planning recycling systems and optimising product life cycles.

Renewable energy & decarbonisation: Designing, dimensioning and integrating sustainable energy systems, as well as developing decarbonisation concepts for energy-intensive industries (such as steel, cement and chemistry).

Water & resource management: Planning water and wastewater treatment plants, industrial water cycles and rain water management systems.

Sustainable process engineering: Developing resource-efficient production processes in the interest of lean and green manufacturing.

ESG & sustainability management: Managing and implementing sustainability strategies in companies to comply with current regulatory frameworks.

Digitalisation & green tech: Using simulation tools, artificial intelligence and digital twins to optimise energy and material flows.

HIGHLIGHTS

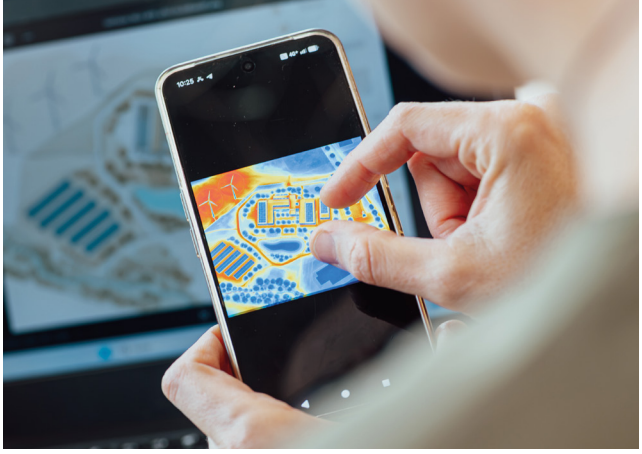
- **Problem-based learning (PBL):**
  Instead of relying on traditional lectures alone, the degree programme is based on student-centred teaching. Students work in teams to solve real, complex problems from engineering practice, while lecturers act as coaches.

- **Genuine interdisciplinary practical projects:**
  In the modules of the fourth and fifth semesters, students work on concrete transformation projects directly with companies, NGOs or municipalities (e.g. municipal energy spatial planning or industrial decarbonisation).

- **Extensive professional internship:**
  A compulsory subject-related 12-week internship in the sixth semester (in Austria or abroad) provides a direct route into the world of work.

- **Research infrastructure & living lab in Pinkafeld:**
  The state-of-the-art campus in Pinkafeld, completed in 2026, is supplied entirely from renewable energy sources (the largest geothermal project in Burgenland). Students use high-tech laboratories such as the Energetikum (a genuine two-storey test building), the eco-friendly Lowergetikum and cutting-edge test facilities (e.g. for biomass, pyrolysis, fuel cells and hydrogen).

- **Strong corporate network:**
  By the start of the degree programme, more than 30 partner companies have already provided declarations of cooperation, making it easier for students to access internships and jobs.



PROGRAMME FACT FILE

Programme duration
6 semesters

Academic degree
Bachelor of Science in Engineering – BSc or B.Sc.

Programme structure
Full time

Tutition fees
None

Study location
7423 Pinkafeld, Steinamangerstraße 21, Austria

Language
English (B2 level)

APPLICATION AND ADMISSION

Admission requirements	School-leaving examination giving access to university (Matura or equivalent qualification), limited or general higher education entrance examination, or preparatory course with an accreditation exam
Application	Apply online at **www.hochschule-burgenland.at/anmeldung** before 31 March. After this date, you can apply for any remaining study places. For applicants from third countries without EU visa facilitation agreements, the application deadline ends on 15 March.
Admission procedure	Interview

PROGRAMME STRUCTURE AND CURRICULUM

Students attend the modules listed below and complete the programme by passing a final examination.

FIRST YEAR | 60 ECTS

Course Title	WS	SS
GREEN ENGINEERING INTRODUCTION AND SCIENCE		
Einvironmental Biology	3	
Environment, Society and Technology	2	
Introductory Lab	1	
ENGINEERING FUNDAMENTALS		
Engineering Fundamentals Theory	5	
Engineering Fundamentals Excursion	1	
CIRCULAR ECONOMY & SUSTAINABLE BUSINESS		
Circular Economy	3	
Sustainable Buisness	3	
LANGUAGE AND SOCIAL SKILLS I + II		
German I or Spanish I	5	
Intercultural Communication	1	
German II or Spanish II		5
Intercultural Perspectives on Sustainability		1

Course Title	WS	SS
CLIMATE SCIENCE		
Climate Science Theory	5	
Simulation	1	
SCIENCE IN GREEN ENGINEERING		
Environmental Chemistry		4
Resource Transition		1
Environmental Chemistry Laboratory		1
SUSTAINABLE MANUFACTURING ENGINEERING		
Sustainable Manufacturring Engineering – Theory		5
Sustainable Manufacturring Engineering – Exkursion		1
SYSTEM THINKING & SUSTAINABLE ASSESSMENT		
System Thinking & Sustainable Assessment		6
SCIENTIFIC METHOD AND DIGITAL SKILLS		
Scientific Method		3
Digital Skills		3

SECOND YEAR | 60 ECTS

Course Title	WS	SS
GREEN ENGINEERING PROCESS		
Process Engineering for Green Engineering	5	
Process Engineering Laboratory	1	
RECYCLING AND WASTE MANAGEMENT		
Waste Management	2	
Recycling	3	
Excursionen	1	
FUNDAMENTALS OF RENEWABLE ENERGY SYSTEMS		
Fundamentals of Renewable Energy Systems	5	
Fundamentals of Renewable Energy Systems – Laboratory	1	
LANGUAGE AND SOCIAL SKILLS III + IV		
German III or Spanish III	5	
Gender & Diversity in Technology	1	
German IV or Spanish IV		5
Ethics in Technology		1

Course Title	WS	SS
GREEN DIGIAL SKILLS I		
Green Digial Skills	6	
SUSTAINABLE WATER MANAGEMENT		
Water and Wastewater Treatment Technologies		5
Lab Water		1
ECODESIGN		
Ecodesign		6
INDUSTRIAL APPLICATIONS OF R ENEWABLE ENERGY SYSTEMS		
Industrial Applicationsof Renewable Energy Systems		5
Renewable Energy System Excursion		1
INTERDISCIPLINARY PROJECT I		
Interdisciplinary Project I		6

THIRD YEAR | 60 ECTS

Course Title	WS	SS
INTERDISCIPLINARY PROJECT II		
Interdisciplinary Project II	12	
ESG MANAGEMENT & LAW		
ESG Management	3	
Law	3	
ENTREPRENEUERSHIP AND INNOVATION MANAGEMENT		
Entrepreneuership and Innovation Management	6	
LANGUAGE AND SOCIAL SKILLS V		
German V or Spanish V	5	
Intercultural Collaboration	1	

Course Title	WS	SS
VOCATIONAL INTERNSHIP		
Vocational Internship		17
Vocational Internship Supervision		1
BACHELOR THESIS		
Bachelor thesis		4
Bachelor's examination		2
CHANGE MANAGEMENT		
Change Management		6

WS = Winter semester, SS = Summer semester, ECTS = European Credit Transfer System



HOCHSCHULE BURGENLAND
BRINGT BESONDERES ZUSAMMEN.

Von Digitalisierung bis hin zu neuen Formen des Wirtschaftens und des Führens, von Umwelt-, Klima- und Energiethemen bis zu den großen Herausforderungen in der Gesundheit und sozialen Fragen ist das Studienangebot an der Hochschule Burgenland (bis 2024 FH) aufgestellt. Mit ihren Standorten in Eisenstadt und Pinkafeld steht sie für praxisorientierte Hochschulbildung am Puls der Zeit, niemand ist eine Nummer, das Studium ist alles andere als „von der Stange". Beruf, Studium, Familie, Kinder und der Kontakt mit Freunden sind gut vereinbar durch berufsbegleitende Studienprogramme (Fr Nachmittag und Sa ganztägig) und moderne Online-Anteile im Studium und das alles ganz ohne Studiengebühren.

Die Hochschule Burgenland bietet an zwei Studienzentren in Eisenstadt und Pinkafeld Bachelor- und Masterstudiengänge in vier Departments an:

- **Energie & Umwelt**
- **Gesundheit & Soziales**
- **Informationstechnologie**
- **Wirtschaft**

Thematisch setzen wir auf Zukunftsthemen. In der Lehre sind uns persönliche Betreuung und hohe Praxisorientierung wichtig – das alles ohne Studiengebühren.

Besonderes wachsen lassen
Eine einzigartige Community an Lehrenden, die zum Großteil aus der Praxis kommen, begleitet und fördert die Führungskräfte der Zukunft auf ihrem Erfolgsweg. Das Studienerlebnis ist geprägt von Interkulturalität und Regionalität, Innovation und Forschung.

Lebenslanges Netzwerk
Weit mehr als 20.000 Absolventinnen und Absolventen haben an der (Fach-)Hochschule Burgenland graduiert. Sie haben bei ihrer Sponsion nicht nur ein Diplom erhalten, das sie zum Tragen eines akademischen Titels berechtigt, sondern auch gute Perspektiven für ihr zukünftiges Berufsleben.

DER CAMPUS PINKAFELD

Der modernste Hochschul-Campus Österreichs ist der im Herbst 2026 eröffnete Campus der Hochschule Burgenland in Pinkafeld. Auf 10.700 m² bietet dieser Hörsäle, Seminarräume, Labore, sogenannte SkillsLabs und eine moderne Bibliothek. Ein technisch sehr gut ausgestattetes Energie-Umwelt-Gesundheits-Labor schafft optimale Studier- und Forschungsmöglichkeiten für Studierende. Simulations- und Versuchsräume stehen sowohl im living lab am Campus, dem Energetikum, als auch im Lowergetikum zur Verfügung. Für das leibliche Wohl sorgt eine SIPCAN-geprüfte Mensa direkt am Campus.

Besuchen Sie uns auch online:
www.hochschule-burgenland.at

Follow us:

3 STEPS TO START STUDYING

1

Access information

Online at **www.hochschule-burgenland.at** and on our YouTube channel.
By coming to our open day (Infotag) in December or in March.

We will gladly answer your questions on the **Infoline** at **+43 5 7705-3500** and by email at **beratung@hochschule-burgenland.at**.

2

Apply

Online applications are accepted until **31 March** at **www.hochschule-burgenland.at/en/registration.**
All additional information on the application procedure is provided by email.

3

Study

We will welcome you to our campus in September following a successful application procedure and security deposit payment.

Hochschule für Angewandte Wissenschaften Burgenland GmbH

Eisenstadt study centre | Campus 1 | 7000 Eisenstadt | Austria
Pinkafeld study centre | Steinamangerstraße 21 | 7423 Pinkafeld | Austria

Tel.: +43 5 7705

E-Mail: office@hochschule-burgenland.at | **www.hochschule-burgenland.at**

As of October 2026. The contents of this brochure have been compiled with great care; however, we cannot guarantee that all information is accurate, thorough and up to date.Misprints, errors and changes are reserved. Concept: Unique Werbeagentur; Design: Landesholding Burgenland, Stephanie Schwarz | Photographs: Shutterstock, #viewitlikejenni