UNIVERSITY OF APPLIED SCIENCES
UPPER AUSTRIA

Cutting-edge Study Programmes and Pace-setting Research & Development

www.fh-ooe.at
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Study in the Heart of Europe

Austria

Austria is a beautiful country in the heart of Europe with a rich cultural heritage. It was the home of Mozart, Klimt, Freud, and “The Sound of Music”. Austria’s snow-capped mountains, crystal-clear lakes and rivers and historic cities such as Salzburg and Vienna attract tourists from all over the world. The Austrian standard of living is one of the highest in the world. So Austria is always ranked top in the annual financial report of the United Nations Development Programme (UNDP).

Austria stands for:

» Quality in education
» Excellent social security
» Reliable health care for all
» A low crime rate

The national language is German, but most people speak English well.

Upper Austria

The state of Upper Austria is located in the north of Austria and combines natural beauty with a thriving economy. Upper Austria is one of Europe’s leading regions in education, technology and employment. The economy is very much export orientated – in fact, more than 25% of Austria’s total exports originate here.
A Pacesetter in Applied Sciences

The University of Applied Sciences Upper Austria is a national leader in its field. We offer internationally recognised, practice-oriented degree programmes at four locations in the heart of Upper Austria. As part of our commitment to developing international links, we maintain contacts with some 200 partner universities around the world. Our research and development centers are continually developing cutting-edge products for a wide range of practical applications. This solid combination of theory and practice has brought us regional and nationwide acclaim.

Tuition Fees
A study degree programme is an investment in one’s own future, whereby financial aspects must of course be carefully considered. The FH Upper Austria charges tuition fees for Bachelor’s and Master’s degree programmes as follows:

» EUR 363.36 per semester + EUR 19.20 ÖH (Austrian Student Union) contribution for students from EU and EEA countries
» EUR 726.72 per semester + EUR 19.20 ÖH (Austrian Student Union) contribution for students from non-member states. A merit-based scholarship awarded to recognise prior achievement and performance during studies is applicable for international regular students. Please note: Exchange students are exempt from tuition fees!

The Heart of Educational Excellence

The university’s successful development has been based on a dynamic approach to innovation and close co-operation with industry. Monitoring economic trends and technical advances has enabled us to keep pace with changes in the economy at large, especially with regard to labour market requirements and productivity growth areas. Each of the university’s four campuses has defined its own key areas for best practice in teaching and research.

Visionary Blend of Theory and Practice

The appeal of studying applied sciences here in Upper Austria results from the university’s unique blend of broad-based theoretical expertise and highly practical applications. The input we receive from private sector companies and organisations is fundamental to this curriculum strategy across the full range of our degree programmes at all levels:

» Study projects with companies/organisations
» Internships
» Graduate thesis cooperation
» Research and development projects

Co-operating with private sector partners beyond the confines of the university provides the invaluable access to real-world know-how and resources that has invariably led to the development of new projects and provided opportunities for creative interaction with potential new partners. Our record of more than 1,000 such collaborative ventures at home and abroad speaks for itself.

Reasons to study at the FH Upper Austria:
» 4 schools – 5,600 students – 14,800 alumni
» over 60 degree programmes thereof 10 are 100% taught in English
» 18 Double degree programmes
» More than 200 partner universities in 60 countries
» service centre fosters the founding of companies by its alumni
» 99% of the graduates do have a job

Practice-oriented – International – Strong in Research
Leading in Education and R&D in Austria

A nationwide survey among human resource managers in Austrian companies put the University of Applied Sciences Upper Austria top of the league when it comes to educational reputation and all-round image. The poll was conducted among 900 professional managers who voted our university number 1 among Austria’s 20 universities of applied sciences.

» Internationally recognised degrees (Bachelor: 3 years, 180 ECTS / Master: 2 years, 120 ECTS)
» Very good student/teaching staff ratio
» Well balanced combination of theory and praxis
» Degree programmes include internships/fieldwork and R&D project work
» Close co-operation with industry and in international projects (more than 1,000)
» Excellent job prospects for graduates
» Students from 60 different countries
» More than 200 partner universities all around the world

R&D – Research and Development

FH Upper Austria Looking to the 21st Century

Meeting the changing needs of industry, commerce and the wider economy is the driving force behind research and development at the University of Applied Sciences Upper Austria. The main purpose of the university’s research & development is to enhance its co-operation partners’ competitiveness with innovation and new technologies, and to support Upper Austria as a business location with the implementation of research results.

The university’s research and development division conducts wide-ranging investigatory and project-based studies that closely mirror advances in the economy at large. Our analytical remit covers 16 main areas of inquiry that reflect the evolving body of knowledge in the 21st century, including, for example, bio- and medical informatics, logistics and business networks, energy and the environment. The main focus is on research that will lead to sophisticated and practical applications for the benefit of commerce and society.

www.fh-ooe.at/research

R&D Facts

» Number 1 in research of Austria’s universities of applied sciences
» € 17.34 million R&D turnover in 2016
» About 200 professors and 190 research associates involved in R&D
» 334 ongoing R&D projects
» More than 600 national and international partners from industry and society
School of Informatics, Communications and Media

Hagenberg Campus

Renowned as “Austria’s Silicon Valley” and widely praised for its teaching and research, Hagenberg offers students the perfect headstart for a career in information and media technology. Our vast range of degree programmes provide specialist know-how in areas such as IT-security, web engineering, hardware and software development for businesses, the medical profession, the health sector, the automotive industry, aviation, and robotics. There is also the opportunity to study app design, game production, computer animation, social media, and e-learning. With the most modern infrastructure and equipment and strong links to the sector, our dedicated and talented teaching staff is able to ensure a well-rounded and focused educational experience leading to excellent career opportunities.

www.fh-ooe.at/campus-hagenberg

Bachelor’s Degree Programmes

» Automotive Computing* [NEW]
» Communication and Knowledge Media
» Hardware-Software-Design
» Media Technology and Design
» Medical and Bioinformatics
» Mobile Computing
» Secure Information Systems
» Software Engineering

Master’s Degree Programmes

» Communication and Knowledge Media
» Data Science and Engineering [NEW]
» Digital Arts
» Embedded Systems Design
» Energy Informatics [NEW]
» Human-Centered Computing
» Information Engineering and Management*
» Information Security Management*
» Interactive Media [NEW]
» Mobile Computing [NEW]
» Secure Information Systems
» Software Engineering

PhD-programmes in cooperation with JKU (Johannes Kepler University)

» Joint International PhD Programme Informatics

= Programmes taught in English
* Subject to approval by AQ Austria

Location

The campus is located approximately 20 km north-east of the regional capital Linz. It is part of the Softwarepark Hagenberg complex, which also hosts FH Upper Austria’s Research Centre Hagenberg, several research institutes belonging to the Johannes Kepler University of Linz and a range of IT companies. With its unique combination of pedagogic excellence and cutting-edge research backed by business best practice, Hagenberg has established a worldwide reputation as a dynamic powerhouse of computing and software development.

Focus

Academic programmes in Hagenberg allow specialisation in informatics, communications and media. Each programme has a clearly defined and industry-oriented focus. These include software engineering, embedded systems and user interface design, applications in the field of mobile devices and security-related aspects of modern communications, in addition to technical, organisational, and design-related issues in the fields of digital and social media. Courses in business administration and project management are an integral part of each programme, equipping graduates for high-profile careers in the IT and media industries.

Communication Skills

Soft skills are also an integral part of the curriculum. Courses in public speaking, presentation, teamwork and negotiations provide students with the social skills essential for a successful career. Great importance is also attached to foreign languages. Courses in English are mandatory in most programmes, and other languages offered include Spanish, Japanese and Swedish.
Practice-oriented Education
The curriculum structure of our degree programmes underlines how real-world application of knowledge acquired in lectures reflects the innate symbiosis of theory and practice. Our Bachelor students have the opportunity to undertake their mandatory internship-semester at renowned companies all over the world.

R&D Hagenberg Campus
Research and development activities at Hagenberg Campus focus on three major subject areas:

Software Technology and Applications
Our researchers develop specialised algorithms for the analysis of complex data from a variety of application fields in economics and science. Heuristic processes and evolutionary algorithms are used, for example, to solve optimisation problems in areas such as production planning. In bioinformatics and medical informatics, intelligent software systems are developed for the analysis of molecular biological data and for the simulation of biological processes.

Media and Knowledge Technologies
Our researchers in this field work intensively on the development of natural interactive environments for human beings and computers, communication and perception processes, augmented and mixed reality, visualisation possibilities and the design of new media interfaces. Additionally, new learning and working environments as well as new didactic methods for tertiary education and organisational learning are realised.

Information and Communication Systems
Innovative information and communication systems for application in many different fields are researched and developed in Hagenberg. Smart environments and mobile enterprise systems integrate mobile communications, navigation, tracking and tracing and make it possible to develop applications for specific contexts. Embedded systems combine hardware and software to make state-of-the-art applications, including, for example, near field communication (NFC) technology, which makes wireless data transfer over short distances possible. Researchers also work on the development of IT-systems that are secure against malware and similar threats.

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City
Linz, the vibrant capital of Upper Austria, is Austria's third largest city (pop. 200,000). Located on the River Danube between Vienna and Salzburg, Linz is a great place to study. It boasts an atmospheric old town (1,000 years old) with a thriving music and entertainment scene, museums, theatres, concert halls, festivals, marathons, the Linz triathlon, unique shops and numerous cafes.

Focus
All degree programmes combine comprehensive training with practical experience. The course of study for a Bachelor’s degree in Social Work trains students to advise and counsel people in distress, and enables graduates to plan and organise help. The programme, Medical Engineering, combines medical engineering with medicine and medical product law. It prepares students to bridge the gap between the three fields.

Social Services Management focuses on the business skills graduates need to work as managers in social service organisations. The Public Management programme combines business administration, accounting, controlling, business information systems, law, and public finance.

Communication Skills
We place great importance on developing your soft skills. Foreign language courses, and training in public speaking, presentation techniques and leadership skills support our students’ personal development and encourage teamwork.

Practice-orientated Education
The majority of our professors and lecturers are highly qualified adjunct staff who are specialists in their fields. In addition, Linz has ten hospitals, five other universities, and hundreds of businesses and service organisations where students can complete their internships. Our on-site research and development department also offers students opportunities for study and work.

Bachelor's Degree Programmes
- Medical Engineering
- Human Services Management and Public Management
- Social Work

Master's Degree Programmes
- Applied Technologies for Medical Diagnostics (Joint Master programme)*
- Medical Engineering
- Healthcare, Social-, and Public Management
- Social Work

Postgraduate and other additional Training Programmes e.g.
- Academic Care Manager
- Advanced Nursing Practitioner
- Coaching – Training – Organisational Consultancy
- Prevention of addiction and violence
- Integrated Care Systems

* Subject to approval by AQ Austria

School of Medical Engineering and Applied Social Sciences

Linz Campus
The professional and leadership expertise required for a career in the fields of health, social and public management, medical technology or social work are provided at Linz Campus. The faculty makes an important contribution to the further development of society with subjects like intercultural social work, while at the same time focusing on important economic issues of the future with subjects like public management. Our programmes are designed around a common theme with obvious synergy effects: more knowledge, and a multitude of partner organisations, such as the Austrian Red Cross, leading charities (Caritas, Diaconia, Hilfswerk, pro mente), Upper Austria Regional Health Insurance, Austromed, BioMed, MAZ, and numerous social service organisations. www.fh-ooe.at/campus-linz
R&D Linz Campus

The research and development focus at Linz Campus lies in three major key areas:

**Quality of Life for the Elderly**
The ageing of the European population presents a central challenge for society. Our researchers develop new service concepts to meet the challenge of the ensuing nursing and care needs. Innovative solutions in the fields of assistive technologies and information and communication technologies (especially e-health) from diagnostic, telemonitoring and prevention systems are being worked on combining know-how in the fields of social and health management from Linz Campus and technical know-how in the fields of medical informatics and software engineering from Hagenberg Campus.

**Medical Technology**
Our researchers in this field look into new and integrated technologies for medical appliances for diagnosis, rehabilitation and care. In the field of biomechanics, the focus is on subjects like the 3D motion measurement of the musculoskeletal system or the video based measurement of eye movements. In the field of biomedical microscopy, our state of the art infrastructure is used to develop new techniques and methods for concomitant, supportive diagnostics.

**Applied Social Sciences and Non-Profit Management**
This field aims to develop new concepts and differentiated services in the field of social work, in particular evaluation projects as well as the development of new methods and instruments for social work. There is an additional focus on the organisational and economic optimisation of social and health services as well as the scientific accompaniment of the progressive implementation of effectiveness oriented administration.

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School of Management

Steyr Campus

The school provides modern, practice-oriented study programmes that will prepare students with the leadership skills they need for a career in the challenging field of international management. All degree programmes are based on four fundamental principles: total mastery of management know-how; specialist competence in a range of areas including production and logistics management, marketing, sales and controlling; social skills and total confidence in the transfer of skills from theory into practice. Students are provided with the very latest internationally recognised input, whereby increasing emphasis is put on intercultural management and on English as the language of instruction. Our applied research and core activities are in the fields of production optimising, logistics, networks, sales and distribution optimisation, digital economy as well as process management in the health sector. www.fh-ooe.at/campus-steyr

City

Few Austrian cities are as delightful as the historic city of Steyr, which is located at the confluence of the rivers Enns and Steyr. In spite of Steyr’s medieval character, it offers plenty of leisure activities for young people, cosy bars and cafés and many shopping opportunities. Moreover Steyr is an outstanding business location that is used by well-known companies such as BMW, MAN, SKF, etc.

Focus

All our Bachelor’s programmes offer a sound professional education in business management and impart expertise in fields such as b2b-marketing and sales management (Global Sales and Marketing), production economics (Production and Management), logistics and process management (International Logistics Management), IT and marketing (Marketing and Electronic Business), finance and controlling (Accounting, Controlling and Financial Management) and health sciences and process management (Process Management and Business Intelligence). Our Master’s degree programmes specialise in specific fields as well as leadership competences and problem solving skills. The Steyr Campus offers the following Master’s degree programmes: Controlling, Accounting and Financial Management, Digital Business Management, Global Sales and Marketing, Operations Management and Supply Chain Management.

Communication Skills

Social skills are taught from the first semester onwards. In language training, presentations, moderation training and leadership training we provide the students with the opportunity to become acquainted with their individual strengths and abilities to facilitate their personal growth and development as effective team leaders. In addition to English (mandatory), we also offer French, Spanish, Czech and Russian.

Practice-orientated Education

Our professors and lecturers are highly qualified and many of them work beyond their roles in education and research. But it is not only this factor that guarantees our students are provided with a practice-oriented education. The School of Management also offers students the unique opportunity to study and work in close cooperation with more than 200 renowned companies in the form of enterprise projects, semester-long industrial internships and thesis work.

Bachelor’s Degree Programmes

- Accounting, Controlling and Financial Management
- Global Sales and Marketing
- International Logistics Management
- Marketing and Electronic Business
- Process Management and Business Intelligence
- Production and Management

Master’s Degree Programmes

- Accounting, Controlling and Financial Management
- Digital Business Management
- Digital Transport- and Logistics-management*
- Global Sales and Marketing
- Operations Management
- Supply Chain Management

* Programme taught in English

= Programme taught in English

Subject to approval by AQ Austria
R&D Steyr Campus

The focus of research and development activities at Steyr Campus is on the following major key areas:

Production and Operations Management
This research area refers to a more efficient design of production processes. It concerns, among other things, the possibility of reducing inventory and lead time as well as increasing service level. In the field of production planning and control, researchers evaluate and compare various existing systems with newly developed concepts.

LOGISTIKUM
The LOGISTIKUM in Steyr, Austria, is the research- and education institute of the Upper Austrian University of Applied Sciences in the field of logistics and corporate networks. Innovative solutions and concepts in the core fields of logistics management, supply chain management and traffic and transport logistics are developed here together with research and cooperation partners.

Digital Business
This key research area is concerned with the changes and resulting requirements in our “digital age”: issues which have emerged due to the increased use of the Internet and other new technologies in business and society. Changes in the field of marketing and the application of new technologies as management instruments, the development, adaptation and application of innovative business models and the development of enterprise integration concepts and tools are subjects that are being analysed.

Further Areas of Competence
In addition to the three key research areas, research and development activities in the following fields are carried out at the School of Management in Steyr:
» Accounting, Controlling and Financial Management
» with the Cross-Cultural Management and Emerging Markets Centre
» Support of Clinical Core Processes

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www.fh-ooe.at/rd-steyr
School of Engineering

Wels Campus

The Wels Campus of the University of Applied Sciences Upper Austria is home to the School of Engineering. With its focus on engineering, environmental sciences and business studies, it offers students a practical and well-rounded education as well as the opportunity to work alongside major industries in the region. With several modern buildings and more than 60 laboratories it is one of the best-equipped universities in Austria. All Bachelor’s and Master’s degree programmes offered are designed to provide graduates with a comprehensive university education that enables them to succeed on the labour market. The contents of the programmes directly reflect industry’s increasing demand for engineers with cutting-edge, practice-orientated knowledge. www fh-ooe at campus-wels

City

The city of Wels is a busy centre for trade and industry, with a population of over 60,000 and located only 25 kilometres west of Linz (the capital of Upper Austria, population approx. 200,000). Wels is a dynamic business location, owing to the large number of high-tech industries (mainly SMEs), many of which operate worldwide. The university campus is situated in the centre of Wels and spreads its vibrant, lively atmosphere about the city. Wels offers a high quality of life, rich cultural attractions and attractive dining possibilities to its residents, students and guests.

Focus

The Bachelor’s and Master’s degree programmes offered at Wels Campus cover a wide area of studies, approximately 2000 students are currently enrolled in cutting-edge programmes at the School of Engineering. Study programmes such as Automation or Mechanical Engineering represent the more classical fields of Technology and Engineering, while interdisciplinary programmes build the bridge to Industrial Engineering and Management, including two entirely English-taught Master’s degree programme in Innovation and Product Management and Automotive Mechatronics & Management. Sustainable Energy Systems and Electrical Engineering are further fully international Master’s degree programme offered at Wels Campus and interlinks with other programmes in the third focus area: Energy and the Environment.

Communication Skills

All degree programmes are underpinned by a common core of social competence courses: communication skills, foreign languages, social and organisational psychology and teamwork. Moreover, all programmes also offer a range of courses taught in English, which make Wels Campus an attractive destination for exchange students from our partner universities around the globe.

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<th>Bachelor's Degree Programmes</th>
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<td>Agricultural Technology and Management*</td>
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<td>Automation Engineering</td>
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<td>Bio- and Environmental Technology</td>
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<td>Civil Engineering</td>
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<td>Eco-Energy Engineering</td>
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<td>Electrical Engineering</td>
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<td>Food Technology and Nutrition</td>
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<td>Innovation Engineering and Management</td>
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<td>Lightweight Constructions and Composite Materials</td>
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<td>Materials and Process Engineering</td>
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<td>Mechanical Engineering</td>
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<td>Mechatronics and Business Management</td>
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<td>Process Engineering and Production</td>
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<td>Product Design and Technical Communication</td>
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<th>Master's Degree Programmes</th>
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<td>Automation Engineering</td>
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<td>Automotive Mechatronics &amp; Management</td>
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<td>Robotic Systems Engineering*</td>
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<td>Plant Construction</td>
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<td>Sustainable Energy Systems</td>
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* Subject to approval by AQ Austria

= Programmes taught in English

NEW
R&D Wels Campus

The focus of research and development activities at Wels Campus is on six major key areas:

Automatisation and Simulation
Research in this area aims to develop practice relevant automatisation solutions for complex key technologies, for example in energy and production plants, buildings but also in transport and logistics. The modelling of mechatronics systems by simulation and the corresponding development of modern regulation and control strategies for industrial applications have priority.

Measuring and Testing Technology
The focus of this R&D area is on the non-destructive testing (NDT) of materials and components. The NDT-methods, 3D x-ray computer tomography (CT) and active thermal imaging play a central role here. They make it possible to recognise defects inside an object and to draw conclusions about a material's properties. Two modern computerised tomography scanners with differing energy and resolution as well as the latest infrared technology are available at the University of Applied Sciences Austria Wels Campus.

Materials and Production Engineering
The optimised and material-specific processing of polymers and metals is central to this research area. In the field of plastics engineering the University of Applied Sciences Upper Austria places its focus on the tribological and rheological interactions in plastic processing plants and tools. In the field of metallurgy the improvement of the characteristics of tool steels and modern steels for lightweight construction forms the focus of R&D activities.

Energy and the Environment
Several research teams are dedicated to a broad subject area within the fields of eco-energy and environmental technology: solar power, hydrogen technology, energy efficient building, purification of emission gases, remnant recycling, environmental analysis and process engineering. More than 15 laboratories provide an excellent infrastructure with analysis appliances, pilot plants and simulation tools.

Food Technology and Nutrition
In the key field of bio-energy, the University of Applied Sciences Upper Austria researches the development of production processes for advanced bio-fuels (bio-ethanol from straw), and the optimisation of biogas processes as well as developing integrated bio-refinery concepts. In the field of food technology, the focus is on the study of plant constituents and the effects on a molecular level. The goal is to develop so-called functional foods on the basis of these findings.

Innovation and Technology Management
The focus of this interdisciplinary R&D subject is on the further development and application of methods and tools for boosting the performance of the early innovation phases at the front of innovation processes. In particular, the methods of rapid and virtual prototyping and state of the art infrastructure are used here.

Practice-orientated Education
The close link between teaching and research is an important element of the success of the School of Engineering. Wels Campus is a leader in R&D activities and maintains numerous research projects with international companies and local industry. In addition, the Bachelor’s degree programme “Innovation Engineering and Management” is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.
International Students

International Degree-Seeking Students

We are looking forward to receiving applications from international students for our various Bachelor’s and Master’s degree programmes. We currently offer eight Master’s degree programmes and two Bachelor’s degree programmes in English, in all other study programmes the language of instruction is mainly German. For more information please visit www.fh-ooe.at/programmes.

In order to make access to studies possible for applicants with missing prerequisites, the FH Upper Austria offers two preparation and foundation programmes to prepare students for the subsequent Bachelor’s or Master’s degree programme.

International Foundation Programme (IFP)
For selected study degree programmes in Engineering and Business.
This is the solution for candidates, who …
» Yet miss sufficient credits in mathematics/physics/English or want to improve their subject skills prior to enter a study degree programme.
» Do not yet met the entrance requirements for studying in Austria (e.g. one year of studies is missing after A-levels)

German Preparation Programme (GPP)
This programme has been designed for applicants, who do not have the necessary German language qualification (B2 according to the common European Framework of References for Language) yet to apply for one of the German-taught degree programmes.

Admission requirements
» A-level/High School Diploma (or equivalent)
» A2 German language certificate
» Basic knowledge of English language

Students in both programmes (IFP and GPP) will be enrolled as external students during the time of programme. This allows for obtaining visa and student residence permit.

Exchange students

We are happy to welcome exchange students from all over the world and maintain contacts with more than 200 partner universities. Students from over 60 different countries choose the FH Upper Austria for their semester or year abroad, certainly also because of the great variety of courses we teach in English. Each campus of the FH Upper Austria has an International Office that provides services and help to exchange students: www.fh-ooe.at/incomings.
To be nominated as an exchange student, please contact the International Office at your home university.
We Work with the Best