

# Study **Applied Life Sciences.**

## BACHELOR'S DEGREE PROGRAMS

- Bioengineering
- Molecular Biotechnology
- Packaging Technology
- Sustainable Management of Resources

## MASTER'S DEGREE PROGRAMS

- Bioinformatics
- Bioprocess Technology
- Biotechnological Quality Management
- Molecular Biotechnology
- Packaging Technology and Sustainability

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# Biotech and Packaging at its Best

The Department of Applied Life Sciences offers degree programs with focus on natural sciences and engineering.

Since semester 2022/23, the entire department is housed in the new building at the main campus in Favoritenstraße.

## **A joint location for the Applied Life Sciences**

In the newly constructed building in close proximity to the main campus, we have brought together the technically oriented degree programs in Bioengineering, Bioinformatics, Biotechnological Quality Management and Bioprocess Technology with the degree programs in Medical Biotechnology: Molecular Biotechnology (Bachelor's and Master's degree program) and the degree programs from the Department of Packaging Technology and Sustainability - Sustainable Management of Resources, Packaging Technology, Packaging Technology and Sustainability. On several floors, students and lecturers have access to a first-class infrastructure that leaves nothing to be desired: Laboratories for microbiology, cell biology, microscopy and cell cultures. In addition, there are laboratories for packaging technology and bioengineering, a trichoderma laboratory, rooms for electrophoresis and mold cultivation, as well as three laboratories for further research and development activities and two practice laboratories to consolidate what has been learned. The new site also features a fermentation laboratory and pilot brewery, our Scientific Brewhouse.



# Research for progress

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At the interface between chemistry, biology, genetics and microbiology, research in molecular biotechnology has enormous potential. In the medical field, molecular biotechnology is particularly crucial in the fight against cancer or infectious diseases, as well as for the containment of epidemics and pandemics.

One of the major tasks of the 21st century also includes the responsible use and the management of resources. Research into the development of sustainable packaging is part of this and a significant step in the fight against climate change and for an intact environment.

## **What is your part in this?**

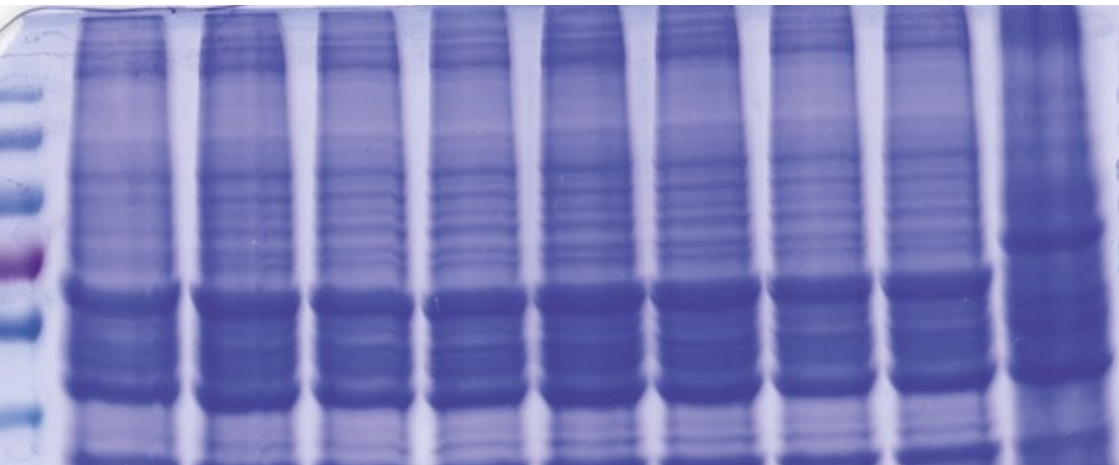
Already at an early stage we involve students in the research activities of our competence centers and degree programs and thus enable them to actively participate in projects. Our department cooperates with renowned universities, research institutes, clinics as well as the packaging industry. During your studies you will be part of this network.

## **Competence Center for Molecular Biotechnology**

In its research work, the competence center focuses primarily on medical-biopharmaceutical and industrial biotechnology. The two research groups of the Biotechnology section deal with applied aspects of two highly topical areas of biotechnology: signaling pathways/cell based test systems and immunology.

## **Diagnosis: Meat Allergy**

Our researchers are working to improve the possibilities for diagnosing meat allergies: single molecules rather than the total extracts used to date will enable more reliable diagnoses in the future. The allergen molecules can be produced recombinantly, i.e. in large quantities and very pure, and are thus suitable for testing and diagnosis.



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### **Well-Tolerated Medical Devices**

Infusion needles, catheters, prostheses or implants can cause allergic, toxic or inflammatory reactions. Therefore, they must be tested for their compatibility in elaborate test series. Molecular Biotechnology researchers, are working together with OFI Technologie & Innovation GmbH to develop a new in vitro test system for these so-called invasive materials and products.

### **Award-winning research by graduates**

Graduates of the Molecular Biotechnology programs are doing excellent research! The Federal Ministry of Education, Science and Research (BMBWF) has repeatedly endorsed this opinion. It annually awards the „Würdigungspreis“ for excellent theses. This award has already been granted nine times to graduates of Molecular Biotechnology.

### **Scientific Brewhouse**

Biotechnology has its roots in beer brewing and vinegar making. The process steps and methods used are very similar to biopharmaceutical applications. In the bachelor's degree program in Bioengineering and the master's degree program in Bioprocess Technology, students can put their knowledge of biochemistry, microbiology and hygiene into practice by brewing beer. The beer is brewed under the brand "Scientific Brewhouse".



## Microbial World Map

Everyone who travels on the subway comes into contact with bacteria and other microorganisms. An international research consortium were studying the microorganisms in cities such as New York, Moscow, Sao Paulo, Berlin and Vienna for several years. The master's degree program in Bioinformatics has developed methods to analyse these data.

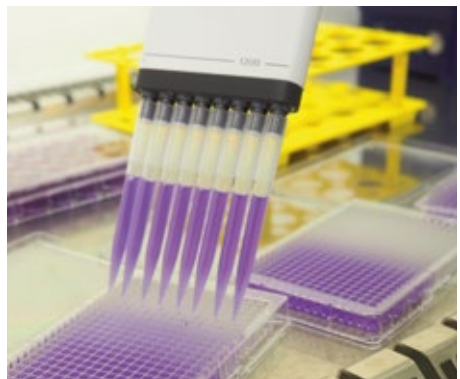


## Competence Center for Sustainable and Future Oriented Packaging Solutions

The Competence Center conducts research into the development of sustainable packaging. Research focuses on the safety of packaging and the evaluation and improvement of the sustainability of products and processes.

### Packaging - Sustainable and Safe

Food contact materials (FCM), i.e. packaging, containers, kitchen utensils, cutlery and crockery, may contain undesirable, possibly harmful substances. They can be transferred to food through contact. Packaging and Resource Management and Molecular Biotechnology are researching together with OFI Technologie & Innovation GmbH on a method for evaluating the safety of FCMs. The aim is to provide the packaging and food industry with a test strategy to exclude health risks for consumers.



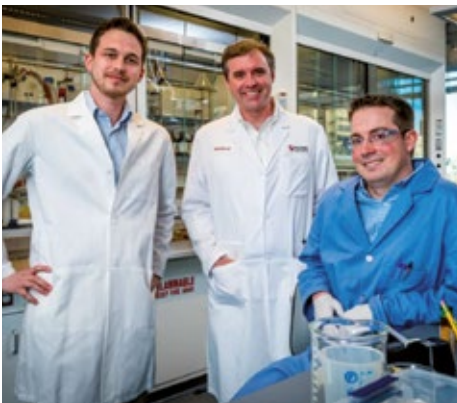
# Global Network

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The biotech industry is a very international, very dynamic and well-networked sector. Therefore, the degree programs in the Department of Applied Life Sciences work closely with partners from science, research and industry, both nationally and internationally. Bioengineering, Bioinformatics, Biotechnological Quality Management and Bioprocess Technology cooperate in Austria with renowned biotech companies, the University of Natural Resources and Life Sciences, Vienna (BOKU) and the Austrian Centre of Industrial Biotechnology (acib).

Molecular Biotechnology's network includes universities, research institutions and biotech companies from Austria and other European countries as well as internationally with Australia, Canada, China, Japan, New Zealand, Singapore, South Korea, Taiwan and the USA. Thanks to this network, students and graduates of the English-language master's degree program can do parts of their studies and research at universities such as King's College in London or Stockholm University in Sweden.

The internationally oriented packaging and resource management is closely networked with universities such as the Munich University of Applied Sciences and Vienna University of Technology, research institutes and the Austrian packaging industry. Among other things, the latter awards an annual scholarship to applicants from outside the EU and the European Economic Area.



From left to right: Georg Winter PhD, James Bradner MD and Dennis Buckley at Harvard



Gwangju Institute of Science and Technology, South Korea

# Bioengineering | Bachelor's Degree Program

## Biology And Technology

You are interested in science, and mathematics is one of your strengths. Biology and technology fascinate you, which is why you want to learn how they can be optimally applied in industrial practice. You think analytically and in a process-oriented manner. Quality is important to you. You like to work in teams and on projects, you want to make a career in industry and have an adequate knowledge of English.

## 21st Century Key Technology

In the bachelor's degree program in Bioengineering you will be trained to conceptualize biotechnological plants and to plan and optimize production processes. Technology, biology and chemistry are the pillars of this program. It is tailored to applications in the food and pharmaceutical industries. In addition, we provide you with knowledge in programming and quality management. The course enables you to gain the certificate for quality representatives for quality management systems according to ISO 9001. Starting in the winter semester 2022/23, you will be studying in the newly constructed building at the main campus with state-of-the-art lecture rooms and excellently equipped laboratories.

## Booming Biotech Industry

As a biotechnologist you plan, develop and optimize biotechnological production processes, to make them suitable for industrial production. You can work in the biopharmaceutical, chemical or food industry, or in brewing and fermentation technology, among others. In the medium-term, you could hold a management position or at some point found your own start-up.

## Overview



**6 Semester**  
180 ECTS



**Bachelor of Science  
in Engineering (BSc)**



**Organizational form**  
**Part-time**



**40**  
**Study places**



**Main Campus**  
Favoritenstraße 222  
1100 Vienna



**Language of instruction**  
**German**



**Tuition fee/semester**  
**€ 363.36<sup>1</sup> + ÖH premium + contribution**  
<sup>1</sup> maximum € 727 for third-country students

**Head of Degree Program:** Dr. Michael Maurer



## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEMESTER   30 ECTS	Analytical and Physical Chemistry LE	2	4
	General and Inorganic Chemistry LE	2,5	5
	General Chemistry I (Practical Course) EX	1	1
	General Microbiology LE	2	4
	Introduction to Organic Chemistry LE	1	2
	Mathematics IC	2	3
	Microbiological Microscopy (Practical Course) EX	0,5	1
	Physics LE	1,5	3
	Statistics for Chemical Analysis IC	1,5	3
	Stoichiometry and Quantitative Chemical Analysis LE	1,5	3
Tutorial in Mathematics EX	1	1	
2 <sup>nd</sup> SEMESTER   30 ECTS	Electrical Engineering LE	1,5	3
	General Chemistry II (Practical Course) EX	2	4
	General Chemistry III (Practical Course) EX	3	5
	Hydraulics and Fluid Mechanics LE	1	2
	Materials science and manufacturing engineering LE	2	4
	Microbiologic Methods IC	0,5	1
	Organic Chemistry LE	2	4
	Specific Microbiology LE	2	2
3 <sup>rd</sup> SEMESTER   30 ECTS	Biochemistry LE	2	4
	Calculations in Process Engineering IC	2	4
	Cell Biology LE	2	4
	General Microbiology (practical course) EX	3	5
	Introduction to the Biochemical Exercises IC	0,5	1
	Measurement, Control and Sensor Technology IC	1,5	3
	Mechanical Engineering LE	2	4
	Thermo-mechanical Process Engineering LE	2	4
Tutorial for Calculations in Process Engineering IC	0,5	1	
4 <sup>th</sup> SEMESTER   30 ECTS	Applied Statistics IC	2	3,5
	Bioanalytics LE	2	3
	Biochemical engineering LE	2	4
	Biochemistry (Practical Course) EX	2,5	3
	Brewing and Fermentation Technology LE	2	4
	Calculations in Bioprocess Engineering IC	1	2
	Molecular Biology LE	2	4
	Programming and Bioinformatics IC	1	3,5
Technical Microbiology LE	2	3	

	LECTURE	SCH	ECTS	
5 <sup>th</sup> SEMESTER   30 ECTS	Brewing laboratory with QC focus EX	1,5	3	
	Digital transformation of processes LE	1	2	
	Introduction to GMP and Quality Management LE	1	2	
	Molecular Biology (Practical Course) EX	2	4	
	QM for quality representatives IC	2	4	
	Quality Control LE	1	2	
	Scientific Work in Molecular Biology - Project Preparation IC	1	2	
	Virtual Exchange IC	1	2	
	<b>Specialization Bioprocess Technology</b>			
	Biotechnological Plant Engineering and Automation LE	2	5	
GMP seminar IC	1	4		
<b>Specialization Informatics</b>				
Bioinformatics and Bioinformatic Data Analysis IC	1,5	3		
Programming IC	1,5	6		
6 <sup>th</sup> SEMESTER   30 ECTS	Animal Cell Technology LE	1	2	
	Aseptic Filling LE	0,5	1	
	Bachelor exam	1	1	
	Bioprocessing Laboratory EX	1,5	2	
	Downstream-Processing, Proteins LE	1	2	
	Plant Hygiene LE	1	2	
	Practical Training PR	7,5		
	Practical Training - Reflection EX	0,5	0,5	
	<b>Specialization Bioprocess Technology</b>			
	Bachelor's Thesis Seminar - BVT SE	1	1	
Downstream Processing Laboratory EX	1	1		
Facility Design, GMP-Project, Bachelor's Thesis SE	5	10		
<b>Specialization Informatics</b>				
Bachelor's Thesis Seminar - BIF SE	1	1		
Linux-based Systems and Data Bases IC	1	1		
Programme Design, Automation, Bachelor Thesis SE	5	10		

### Abbreviations

ECTS	ECTS Credits
EX	Exercise
IC	Integrated Course
LE	Lecture
PR	Practical
SCH	Semester Credit Hours
SE	Seminar

More information: [www.fh-campuswien.ac.at/bioe-b-en](http://www.fh-campuswien.ac.at/bioe-b-en)

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# Molecular Biotechnology

## Bachelor's Degree Program

### Interest in Medical, Molecular Biotechnology

Your strengths lie in biology and chemistry. You are interested in applying medical, molecular biological technologies. With innovative spirit and patience, you like to get to the bottom of things, to develop them further or discover new things. You are a team player, manually skilled and enjoy working in a laboratory.

### Analysing Healthy and Sick Cells

The bachelor's degree program Molecular Biotechnology offers you a practice-oriented education in medical molecular biotechnology. You will learn to analyse the causes of diseases at the cellular level and to develop active substances, vaccines and gene therapies against them. Starting in the winter semester 2022/23, you will be studying in the newly constructed building at the main campus with state-of-the-art lecture rooms and excellently equipped laboratories. The degree program is part of a very extensive national and international network.

### Highly Qualified with a Background in Science

As a biotech generalist you are greatly in demand in industry. You can work as a scientific-technical assistant in research departments and laboratories of internationally active pharmaceutical companies as well as at universities or medical institutions. Or you may decide to work in project management or quality assurance in the manufacture of medicines. At the same time, the degree program serves as preparation for relevant master's studies (inter-) national universities, which can later lead to a doctoral thesis.



## Overview



**6 Semesters**  
180 ECTS



**Bachelor of Science in  
Natural Sciences (BSc)**



Organizational form  
**Full-time**



**60**  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
**German**



Tuition fee/semester  
**€ 363.36<sup>1</sup> + ÖH premium + contribution**  
<sup>1</sup> maximum € 727 for third-country students

**Head of Degree Program:** Dr. Beatrix Kuen-Krismer



## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEMESTER   30 ECTS	Analytical Chemistry I LE	1	1
	Analytical Chemistry I LAB	6	6
	Business Studies LE	1	1
	General Biology LE	2	3
	General Cell Biology LE	1,5	2
	General Chemistry LE	2	3
	Mathematics for Biology I IC	3	3
	Microscopy Lab LAB	1,5	3
	Molecular Biology & Genetics I LE	2	3
	Public Law LE	2	2
	Scientific Communication in English IC	2	2
Social Skills I IC	1	1	

2 <sup>nd</sup> SEMESTER   30 ECTS	Biochemistry I: Foundations & Building Blocks of Life LE	1,5	2
	Cell Biology of the Eukaryotes LE	2	3
	Cell Culture LE	1	1
	Chemical Calculation IC	0,5	0,5
	Civil Law LE	2	2
	Inorganic Chemistry LE	1	2
	Mathematics for Biology II IC	2,5	2,5
	Methods of DNA analysis LE	1	2
	Molecular Biology & Genetics II LE	2	3
	Organic Chemistry LE	2	3
	Quantitative Analytical Chemistry LE	1	1
	Quantitative Analytical Chemistry LAB	3	3
	Scientific Communication in English II IC	2	2
Social Skills II: Self-Coaching & Communication IC	1	1	
Statistics for Biology I IC	2	2	

3 <sup>rd</sup> SEMESTER   30 ECTS	Biochemistry II: Structure Formation, Biorecognition & Catalysis LE	1,5	2
	Bioinformatics IC	3	3
	Cell Culture Laboratory LAB	3	3
	English in Science & Career I IC	2	2
	Fundamentals of Microbiology LE	1,5	2
	Genetic Engineering LAB	3	3
	Immunology LE	1	2
	Introduction to Molecular Biological Lab Techniques LAB	1	1
	Molecular Biological & Biophysical Methods SE	1,5	3
	Physical Chemistry LE	2	3
	Quality & Process Management LE	2	2
	Social Skills III: Teambuilding & Conflict Resolution IC	1	1
	Statistics for Biology II IC	2	2
	Virology LE	0,5	1

	LECTURE	SCH	ECTS
4 <sup>th</sup> SEMESTER   30 ECTS	Applied Microbiology LE	2	2,5
	Biochemistry III: Bioenergetics and Metabolism LE	1,5	2
	English in Science & Career II IC	2	2
	Gene Expression LE	1	2
	Genome Organization IC	1	2
	GxP LE	4	5
	Instrument-based Analytics LE	2	3
	Microbiological Lab Techniques LAB	2,5	2,5
	Project Management IC	2	2
	Protein & Enzyme Biochemistry LAB	3	3
	Protein Expression & Purification LAB	3	3
Social Skills IV: Moderation & Problem Solving IC	1	1	

5 <sup>th</sup> SEM   30 ECTS	Bachelor Thesis I & Scientific Method SE	5
	Industry Practical PR	25

6 <sup>th</sup> SEMESTER   30 ECTS	Applied Genomics LE	2	3
	Bachelor Exam	2	
	Clinical aspects of immunology LE	1	2
	Developmental Biology LE	2	3
	Ethics IC	1	1
	Histology LE	2	3
	Human Physiology LE	2	3
	Intercultural Competence IC	1	1
	Marketing & Product Lifecycle Management IC	2	2
	Model Organisms LE	1	2
	Organic Chemistry LAB	3	3
	Reflection of Internship SE	2	2
	Tissue Engineering LE	2	3

### Abbreviations

ECTS	ECTS Credits	PR	Practical
IC	Integrated Course	SCH	Semester Credit Hours
LAB	Laboratory	SE	Seminar
LE	Lecture		

### More information:

www.fh-campuswien.ac.at/mb-b-en  
 Secretary's Office: +43 1 606 68 77-3500  
 biotechnology@fh-campuswien.ac.at



# Packaging Technology

## Bachelor's Degree Program

### Natural Science Meets Creativity

You are interested in natural sciences and have an understanding of technology. You want to combine your curiosity for different materials with your affinity for marketing and design. Others call you practical and creative, because you enjoy working on improvements, like interconnected thinking and a have a high level of quality awareness.

### Paper, Plastic, Glass, Metal: Always An Eye On The Entire Life Cycle

The study program, developed in cooperation with packaging companies, is part-time and is attainable independent of your place of residence. Filling goods such as food and pharmaceutical products interact with their packaging materials. The program covers the entire life cycle of a packaging - from development and production, to recycling and disposal, up to marketing and quality management.

### Generalists In Demand, And With Career Opportunities

As a graduate, you will be in demand in the fields of production, packaging development and design, in quality assurance, technical purchasing, sales and marketing. You start as an assistant or project team member, product developer, application engineer, designer, packaging inspector, laboratory technician, buyer or sales assistant with career opportunities to become a production, quality, marketing or sales manager.

## Overview



6 Semesters  
180 ECTS



Bachelor of Science  
in Engineering (BSc)



Organizational form  
Part-time



25  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
German



Tuition fee/semester  
€ 363.36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

**Head of Degree Program:** Dr. Silvia Apprich



## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEM   30 ECTS	Accounting and Controlling IC	2	4
	Chemical Laboratory Exercises EX	2	4
	Chemistry in Packaging Technology IC	3	6
	Fundamentals of Business Administration IC	2	4
	Fundamentals of Packaging Materials and their Manufacturing IC	3	6
	Fundamentals of Packaging Technology IC	3	6
2 <sup>nd</sup> SEMESTER   30 ECTS	Advanced Quality Management IC	1,5	3
	Filling and Packaging Technology IC	3	6
	Filling-Good-Characteristics and Requirements IC	3	6
	Introduction to IT in Companies IC	1	2
	Microbiological Laboratory Exercises EX	1	2
	Microbiology and Hygiene LE	1	2
	Physics in Packaging Technology IC	2	4
	Qualitymanagement and Occupational Safety IC	1,5	3
	Team and Leadership IC	1	2
3 <sup>rd</sup> SEM   30 ECTS	Glass IC	2,5	5
	Metal IC	2,5	5
	Operational and Commercial Excellence IC	2	4
	Operational Controlling IC	1	2
	Paper IC	2	4
	Paper Converting IC	3	6
	Printing Technology IC	2	4

	LECTURE	SCH	ECTS
4 <sup>th</sup> SEM   30 ECTS	Inspection Technology IC	3	6
	Packaging Legislation IC	2	4
	Plastics IC	2,5	5
	Plastics Converting IC	2,5	5
	Recycling and Waste Management IC	2,5	5
	Sustainability and Packaging IC	2,5	5
5 <sup>th</sup> SEM   30 ECTS	Bachelorthesis SE	2	10
	Professional Traineeship PR		19
	Reflection of Professional Traineeship SE	1	1
6 <sup>th</sup> SEM   30 ECTS	Conversation and Negotiation Skills IC	1	2
	Ecodesign IC	2,5	5
	Interdisciplinary Project in Packaging Development and Design IC	6	12
	Marketing of consumer products and industrial goods IC	2	4
	Purchasing and Supply Chain Management IC	1,5	3
	Sales and Key-Account-Management IC	2	4

### Abbreviations

ECTS	ECTS Credits	PR	Practical
EX	Exercise	SCH	Semester Credit Hours
IC	Integrated Course	SE	Seminar
LE	Lecture		

**More information:** [www.fh-campuswien.ac.at/vt-b-en](http://www.fh-campuswien.ac.at/vt-b-en)  
 Secretary's Office: [vt@fh-campuswien.ac.at](mailto:vt@fh-campuswien.ac.at) | +43 1 606 68 77-3536



# Sustainable Management of Resources

## Bachelor's Degree Program

### Interested In The Environment And Natural Science?

Technical-scientific subjects such as physics or chemistry and environmental topics are close to your heart. You want to develop solutions for improved product sustainability. You accept change as a challenge. You like conceptual work and you are open for innovative approaches.

### Lateral Thinking Allowed!

Climate change, scarcity of resources, waste prevention and increasingly strict environmental laws: companies need sustainably designed products and processes. Lateral thinking in order to change existing business models is therefore important. You will learn how to use resources carefully, prevent waste and use it productively as recyclable materials. The content includes technology, natural sciences, resource management, economics and environmental law.

### Diverse Field Of Application: Sustainability Always In View

You are an expert in waste management and disposal concepts, life cycle analyses and sustainability reports. Resource management, waste disposal and product development and product management are your fields of activity. You are qualified for production, for purchasing, sales and logistics.

## Overview



6 Semesters  
180 ECTS



Bachelor of Science  
in Engineering (BSc)



Organizational form  
Part-time



23  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
German



Tuition fee/semester  
€ 363.36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

Head of Degree Program: Dr. Silvia Apprich



## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEMESTER   30 ECTS	Accounting and Controlling IC	2	4
	Business Management - Basics IC	2	4
	Environmental Legislation IC	2	4
	Introduction to Resource Management IC	2	4
	Legal Basics IC	1,5	3
	Methods of Resource Management IC	1,5	3
	Physics and Mathematics in Resource Management IC	4	8
2 <sup>nd</sup> SEMESTER   30 ECTS	Business Ethics and CSR IC	1,5	3
	Chemistry in Resource Management IC	2,5	5
	Environmental Biology and Hygiene IC	2	4
	International Product Compliance IC	1,5	3
	Introduction to Corporate IT IC	1	2
	Organization of Production and Labor SE	1	2
	Sustainable Management of Resources IC	2,5	5
Waste Legislation IC	3	6	
3 <sup>rd</sup> SEMESTER   30 ECTS	Advances Quality Management IC	1	2
	Ecodesign IC	1,5	3
	Exercises - Life Cycle Assessment EX	2,5	5
	Life Cycle Assessment IC	2,5	5
	Materials in Resource Management IC	2	4
	Process Technology IC	2,5	5
	Product Development IC	1,5	3
Quality Management IC	1,5	3	

	LECTURE	SCH	ECTS
4 <sup>th</sup> SEMESTER   30 ECTS	Environmental and Resource Economics IC	2	4
	Environmental Management Systems IC	1,5	3
	Introduction to Waste Management IC	2,5	5
	Material Flow Management - Processoptimization IC	3	6
	Material Flow Management (Bachelor Thesis) SE	2	4
	Resource Management for Production and Retailing IC	1	2
Waste Management and Recycling Technologies IC	3	6	
5 <sup>th</sup> SEM   30 ECTS	Bachelor Thesis 2 SE	2	10
	Reflections on Practical Experience SE	1	1
	Vocational Internship PR		19
6 <sup>th</sup> SEMESTER   30 ECTS	Industry Specialization 1 IC	2,5	5
	Industry Specialization 2 IC	2,5	5
	Logistics IC	1,5	3
	Marketing and Product Management IC	1,5	3
	Operational and Commercial Excellence IC	1,5	3
	Processmanagement IC	2,5	5
Purchasing and Supply-Chain-Management IC	2	4	
Rhetoric and Negotiation Technique IC	1	2	

### Abbreviations

ECTS ECTS Credits

EX Exercise

IC Integrated Course

PR Practical

SCH Semester Credit Hours

SE Seminar

**More information:** [www.fh-campuswien.ac.at/nrm-b-en](http://www.fh-campuswien.ac.at/nrm-b-en)

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# Bioinformatics | Master's Degree Program

## The Perfect Combination

You are a natural scientist with basic IT knowledge. You want to work on and answer biological questions with computer science methods. Analytical and process-oriented thinking come easy to you. You are solution-oriented and enjoy working in teams and on projects at the interface of various disciplines. You have an adequate knowledge of English.

## Focus On Medical Biotechnology

In the Master's degree program Bioinformatics you will develop algorithms and programs with which biochemical processes can be simulated and molecular biological data analyzed. The program represents digitalization in biotechnology and ranges from medical research to data-driven optimization in pharmaceutical production. Numerous R&D projects offer you the opportunity to work on cutting-edge applications and to establish valuable contacts for your professional future.

## Bioinformaticians Urgently Wanted!

As a graduate you will work in a biotechnological research company in the biopharmaceutical industry, in industrial biotechnology or in medical and molecular biology research. However, you can also offer your know-how and skills as an independent bioinformatics service provider.

## Overview



4 Semesters  
120 ECTS



Master of Science  
in Engineering (MSc)



Organizational form  
Part-time



22  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
German



Tuition fee/semester  
€ 363.36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

**Head of Degree Program:** Dr. Michael Maurer





## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEMESTER   30 ECTS	Basics of Algorithms LE	1	2
	Data Mining and Visualization IC	1	2
	Databases LE	2	4
	Introduction to Linux and Shells scripting IC	1	2
	Introduction to Programming IC	2,5	5
	Proteomics IC	1,5	3
	Selected chapters of Mathematics LE	1	2
	Statistics IC	1,5	3
	Transcriptomics and Genomics IC	2	4
	Transcriptomics and Genomics Practice EX	1,5	3
2 <sup>nd</sup> SEMESTER   30 ECTS	Applied Programming Practice IC	3	6
	Data Analysis Laboratory LAB	2	4
	Database Systems IC	1,5	3
	Machine Learning Methods IC	1	2
	Master Thesis Preparation SE	0,5	1
	Medical Analysis of Genoms LE	1	2
	Selected Chapters of Bioinformatics SE	1	2
	Software Development IC	3	6
	Specific Statistics Practice EX	1	2
Structure Prediction in Biopolymers LE	1	2	

	LECTURE	SCH	ECTS
3 <sup>rd</sup> SEMESTER   30 ECTS	Automation Practice IC	3	6
	Biotechnological Seminar SE	0,5	1
	Business Plan and Cost Accounting IC	2	4
	Clinical Bioinformatics IC	1,5	3
	Computational Systems Biology IC	1,5	3
	Innovation and Entrepreneurship IC	1	2
	Metagenom Analysis IC	1	2
	Molecular Design IC	1,5	3
	Network and Internet Technologies IC	1	2
	Patenting IC	1	2
	Validation of Software and Medical Devices LE	1	2
4 <sup>th</sup> SEM   30 ECTS	Master Exam		1
	Master Thesis		28
	Master Thesis Seminar SE	1	1

### Abbreviations

ECTS	ECTS Credits
EX	Exercise
IC	Integrated Course
LAB	Laboratory
LE	Lecture
SCH	Semester Credit Hours
SE	Seminar

**More information:** [www.fh-campuswien.ac.at/bif-m-en](http://www.fh-campuswien.ac.at/bif-m-en)

Secretary's Office: [bioengineering@fh-campuswien.ac.at](mailto:bioengineering@fh-campuswien.ac.at) | +43 1 606 68 77-3600



# Bioprocess Technology | Master's Degree Program

## Process Technology, Biotechnology And Laboratory

You are familiar with process technology and natural sciences. You want to improve your research competency and further develop and optimize process technologies. You think analytically and in a process-oriented and system-related manner. You enjoy working in teams, but are also open for a management position. An adequate knowledge of English is expected.

## The Living Cell Makes The Difference

In bioprocess technology, biotechnological methods are transferred to technical applications in the industry. You will learn to develop manufacturing processes from the gene to the product, to transfer them to production scale and, based on simulations, to evaluate them in economic terms. You also have the opportunity to participate in research projects with the Austrian Centre of Industrial Biotechnology (acib) and renowned biotech companies.

## And After Graduation!?

As a bioprocess technologist you will plan, develop and implement new biotechnological production processes and plants in the biopharmaceutical industry, industrial biotechnology, the food industry and in environmental technology. You work as project manager, lead production teams in large-scale plants, or are responsible for the accompanying quality management.

## Overview



4 Semesters  
120 ECTS



Diplom-Ingenieur (DI)<sup>1</sup>  
<sup>1</sup>comparable to „Master of Science in Engineering (MSc)“



Organizational form  
**Part-time**



**18**  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
**German**



Tuition fee/semester  
**€ 363.36<sup>2</sup> + ÖH premium + contribution**  
<sup>2</sup> maximum € 727 for third-country students

**Head of Degree Program:** Dr. Michael Maurer



## Curriculum

	LECTURE	SCH	ECTS
<b>1<sup>st</sup> SEMESTER</b>   30 ECTS	Automation Tutorial LAB	1	2
	Biogas Production and Algal Technology LE	1	2
	Bioprocesses and Products LE	1,5	3
	Bioreactors and Bioprocess Engineering IC	2	4
	Differential Equations for Bioprocess Engineering IC	1	2
	Energy, Heating and Cooling Technologies I IC	1,5	3
	Measurement, Control and Automation IC	1,5	3
	Parenterals LE	1	2
	Platform Chemicals and Biopolymers IC	1,5	3
	Technical Risk Analysis IC	1	2
	Technical Risk Analysis Practice EX	1	2
Validation IC	1	2	
<b>2<sup>nd</sup> SEMESTER</b>   30 ECTS	Bioprocess Engineering (Practical Course) LAB	2	4
	Downstream Processing (Practical Course) LAB	3	6
	Downstream Processing, Proteins IC	1,5	3
	Energy, Heating and Cooling Technologies II IC	1,5	3
	Enzyme Technology LE	1	2
	Pharmaceutical Technology IC	2	4
	Plant Cleaning IC	1	2
	Selected Subjects in Bioprocess Engineering and Master Thesis Preparation SE	1	2
	Specific Statistics IC	1	2
	Statistical Design of Experiments I IC	1	2

	LECTURE	SCH	ECTS
<b>3<sup>rd</sup> SEMESTER</b>   30 ECTS	Biosafety and Biosecurity LE	0,5	1
	Business Plan and Cost Accounting IC	2	4
	Fermentation Practical LAB	1	2
	Industrial Facility Hygiene LE	1	2
	Innovation and Entrepreneurship IC	1	2
	Microbial Production Strains and Strain Development LE	1,5	2
	Molecular Biology Laboratory Practical LAB	1	2
	Patenting IC	1	2
	Plant Design and Construction IC	1,5	3
	Statistical Design of Experiments II EX	1	2
	Sterilization and Disinfection IC	1	2
	Technical Project Management IC	0,5	1
	Wastewater Treatment IC	1,5	3
	Water and Ventilation Technology IC	1	2
<b>4<sup>th</sup> SEM</b>   30 ECTS	Master Exam		1
	Master Thesis		28
	Master Thesis Seminar SE	1	1

### Abbreviations

ECTS	ECTS Credits	LE	Lecture
EX	Exercise	SCH	Semester Credit Hours
IC	Integrated Course	SE	Seminar
LAB	Laboratory		

**More information:** [www.fh-campuswien.ac.at/bvt-m-en](http://www.fh-campuswien.ac.at/bvt-m-en)

Secretary's Office: [bioengineering@fh-campuswien.ac.at](mailto:bioengineering@fh-campuswien.ac.at) | +43 1 606 68 77-3600



# Biotechnological Quality Management

## Master's Degree Program

### Scientific and Technical Know-How

You have fundamental know-how in natural sciences, process biotechnology and quality management. Your awareness for risk-benefit is outstanding. You think analytically and in a process-oriented manner, enjoy working in teams and on projects and are interested in a management position. Naturally, you have an adequate knowledge of English.

### Unique Training

The part-time master's degree program combines technical expertise with methods of operations management. The focus is on quality management for biotechnological processes and products. The basics of Good Manufacturing Practice as well as business management optimization are taught. In addition, with this program you can take the qualification examination as an internal or external auditor for quality management systems in accordance with ISO 9001. The degree program cooperates with universities and research institutions, e.g. with the Austrian Centre of Industrial Biotechnology (acib), and maintains cooperations with renowned biotech companies.

### Deployable Across a Variety of Industries

As a graduate you will work in quality assurance, quality control, product registration, plant design, auditing and/or in Good Manufacturing Practice. You will be primarily employed in the biopharmaceutical industry and industrial biotechnology, but can also be deployed in authorities, ministries, the food and feed industry or in the cosmetics industry.

### Overview



4 Semesters  
120 ECTS



Master of Science  
in Engineering (MSc)



Organizational form  
Part-time



18  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
German



Tuition fee/semester  
€ 363.36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

Head of Degree Program: Dr. Michael Maurer



## Curriculum

	LECTURE	SCH	ECTS
1 <sup>st</sup> SEMESTER   30 ECTS	Bioprocesses and Products LE	1,5	3
	Good Manufacturing Practice, Eudralex IC	1	2
	Immunology LE	1	2
	Implementation of Analytical Methods EX	1,5	2
	Introduction to GMP and Quality Management LE	1	2
	ISO 9001 IC	1,5	3
	Parenterals LE	1	2
	Physiology LE	1	2
	QM-System Development IC	1	2
	Selected Subjects in Quality Management and Master Thesis Preparation SE	1	2
	Selected topics in Quality Management LE	1	2
	Technical Risk Analysis IC	1	2
	Technical Risk Analysis Practice EX	1	2
Validation IC	1	2	

2 <sup>nd</sup> SEMESTER   30 ECTS	Auditing IC	0,5	1
	Behavior and Error Performance SE	1	2
	Biopharmakology LE	1,5	3
	External and Internal Auditing LE	0,5	1
	Introduction to Operations Research LE	1	2
	Optimization Methods EX	1	2
	Pharmaceutical Technology IC	2	4
	Process Modelling and Simulation IC	2,5	5
	QM in Food Production LE	1	2
	Six Sigma, Lean, Kaizen IC	2	4
	Specific Statistics IC	1	2
Specific Statistics Practice EX	1	2	

	LECTURE	SCH	ECTS
3 <sup>rd</sup> SEMESTER   30 ECTS	Accreditation and Auditing IC	1	2
	Biosafety and Biosecurity LE	0,5	1
	Business Plan and Cost Accounting IC	2	4
	Data Mining and Visualization IC	1	2
	Energy Technology for Quality Management IC	1	2
	Good Clinical Practice and Pharmacovigilance LE	1	2
	Industrial Facility Hygiene LE	1	2
	ISO 45001 and integrated QM LE	0,5	1
	Materials Stream and Environmental Management IC	1	2
	Quality Control and Quality Assurance in the Laboratory IC	2,5	4
	Regulatory Requirements in Drug Licensing IC	1,5	3
	Statistical Process Control IC	1,5	3
	Sterilization and Disinfection IC	1	2

4 <sup>th</sup> SEM   30 ECTS	Master Exam		1
	Master Thesis		28
	Master Thesis Seminar SE	1	1

### Abbreviations

ECTS	ECTS Credits
EX	Exercise
IC	Integrated Course
LE	Lecture
SCH	Semester Credit Hours
SE	Seminar

**More information:** [www.fh-campuswien.ac.at/bioqu-m-en](http://www.fh-campuswien.ac.at/bioqu-m-en)

Secretary's Office: [bioengineering@fh-campuswien.ac.at](mailto:bioengineering@fh-campuswien.ac.at) | +43 1 606 68 77-3600



# Molecular Biotechnology | Master's Degree Program

## Are you passionate about medical and molecular biotechnological research?

You are looking for a position with major responsibilities in vaccine and drug development or in stem cell research. You are curious and determined to find the best solutions to problems. In human medical-biotechnological development, you want to be at the forefront. You are a team player and are looking to solve challenging problems. You want to work in a multicultural environment with English as the working language.

## Your world is medical and pharmaceutical biotechnology

The English-language master's degree program in Molecular Biotechnology is unique in Austria: the emphases of the master's degree program are Molecular Medicine, Human Genetics, Drug Discovery and Immunology. You will learn about the hot topics of big data, personalized data analysis and data security. You will investigate the causes of diseases at the cellular level and learn how to develop new treatments and therapies for them. Starting in the winter semester 2022/23, you will be studying in the newly constructed building at the main campus with state-of-the-art lecture rooms and excellently equipped laboratories. The degree program is part of a large national and international network at university level.

## Biotechnologists - Specialized in Research and Innovation

As a graduate you are mainly involved in medical and pharmaceutical research and development. You also possess the necessary entrepreneurial know-how to ground your own start-up or you may decide to study for a doctorate at an Austrian or an international university.



## Overview



4 Semesters  
120 ECTS



Master of Science  
in Natural Sciences (MSc)



Organizational form  
Full-time



40  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna

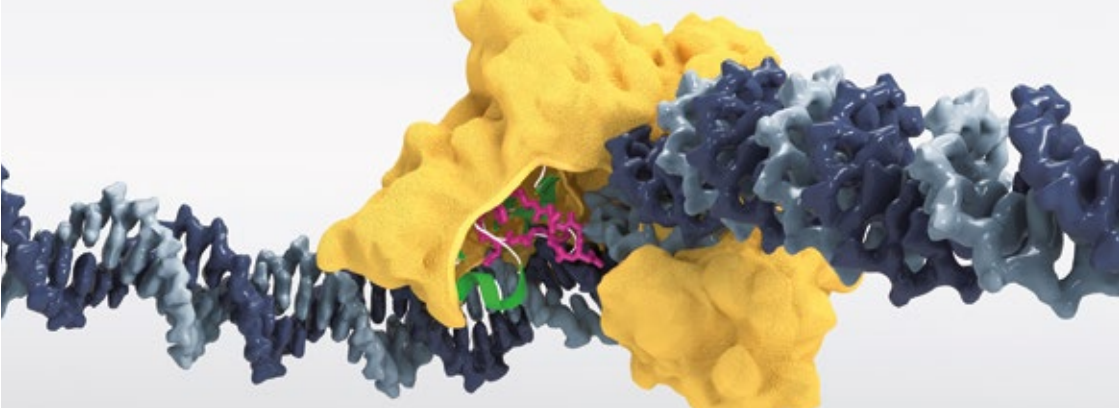


Language of instruction  
English



Tuition fee/semester  
€ 363.36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

Head of Degree Program: Dr. Beatrix Kuen-Krismer



## Curriculum

	LECTURE	SCH	ECTS
<b>1<sup>st</sup> SEMESTER   30 ECTS</b>	Bioethics IC	1	1
	Bioinformatics IC	2	2
	Clinical Drug Development IC	1	1
	General Pathology LE	2	3
	Intercultural Teams in Interdisciplinary Projects IC	1	1
	Medical Genetics LE	2	2
	Medical Genetics LAB	2	2
	Molecular Genetics LE	1,5	2
	Molecular Immunology LE	2	3
	Molecular Pathology LE	2	3
	RNA LE	1	2
	RNA Analysis LAB	3	3
	Scientific Communication I IC	2	3
	Vascular Biology LE	1	2
<b>2<sup>nd</sup> SEMESTER   30 ECTS</b>	Biologicals LE	1	1
	Drug Screening LE	1	1
	Intellectual Property and Patent Law LE	1	1
	In silico Biology IC	3	3
	Infection Biology LE	2	2
	Innovation in Biotechnology & Start-ups IC	2	2
	Molecular Pathology LAB	3	3
	Molecular Virology LE	1	2
	Scientific Communication II IC	2	2
	Signalling Pathways LE	1	2
	Signalling Pathways LAB	3	3
	Stem Cells LE	1,5	2
	Stem Cells LAB	2,5	3
	<b>Electives (1 ECTS of your choice)</b>		
1. RNA SE	1	1	
2. Drug Discovery SE	1	1	
3. Molecular Immunology SE	1	1	
<b>Electives (2 ECTS of your choice)</b>			
1. Therapeutic Strategies LE	1	2	
2. Vaccine Development LE	1	2	

	LECTURE	SCH	ECTS
<b>3<sup>rd</sup> SEMESTER   30 ECTS</b>	Allergies & Autoimmune Diseases LE	1	2
	Computational Data Analysis IC	2	2
	Drug Design LE	2	2
	Gene Therapy LE	1	2
	Mass Spectrometry IC	2	2
	Master Project Seminar IC	1	1
	Molecular Immunology LAB	3	3
	Molecular Neurobiology LE	2	3
	Molecular Pharmacology IC	2	3
	Strategic Business Management IC	2	2
	Toxicology LAB	3	3
	Tumour Biology LE	2	3
	<b>Electives (1 ECTS of your choice)</b>		
	1. Computer-assisted Systems & Data Integrity IC	1	1
2. Pharmacovigilance & Regulatory Affairs IC	1	1	
<b>Electives (1 ECTS of your choice)</b>			
1. Scientific Method: Drug Discovery SE	1	1	
2. Scientific Method: Immunology SE	1	1	
<b>4<sup>th</sup> SEM   30 ECTS</b>	Master Exam		2
	Master Thesis		28

### Abbreviations

ECTS	ECTS Credits
IC	Integrated Course
LAB	Laboratory
SE	Seminar
SCH	Semester Credit Hours
LE	Lecture

**More information:** [www.fh-campuswien.ac.at/mb-m-en](http://www.fh-campuswien.ac.at/mb-m-en)

Secretary's Office: [biotechnologie@fh-campuswien.ac.at](mailto:biotechnologie@fh-campuswien.ac.at) | +43 1 606 68 77-3500



+43 676 34 82 531

# Packaging Technology and Sustainability

## Master's Degree Program

### Help Shaping the Future - with Packaging

You have a technical and scientific background. Avoiding food waste and conserving resources is important to you. You optimize production processes in an ecological, economic and social context. If you are also looking for a leadership position, this master's degree program is ideal for you.

### From Packaging Technology to Management Skills

This English-language degree program is divided into four main topics: Packaging Technology, Sustainability, Management and Science and Research. You will learn about the latest technologies for the production as well as filling and packaging process of packaging materials. Know-how in scientific working and research management as well as soft skills prepare you for a leading position. Work experience and employment are beneficial, but not a prerequisite for the degree program.

### Growing Markets Require Qualified Staff

The packaging industry is growing strongly and needs more qualified personnel in the future - especially internationally. As a graduate, you have excellent opportunities with your economic and technical background. Thanks to your knowledge of a wide variety of materials in the packaging field and your proficiency in technical English, you will find opportunities internationally as a specialist or manager in production and packaging development, quality assurance, packaging-specific purchasing and sales, in marketing and design as well as in research.

## Overview



4 Semesters  
120 ECTS



Master of Science  
in Engineering (MSc)



Organizational form  
Part-time



26  
Study places



Main Campus  
Favoritenstraße 222  
1100 Vienna



Language of instruction  
English



Tuition fee/semester  
€ 363,36<sup>1</sup> + ÖH premium + contribution  
<sup>1</sup> maximum € 727 for third-country students

Head of Degree Program: Dr. Silvia Apprich





## Curriculum

	LECTURE	SCH	ECTS
<b>1<sup>st</sup> SEMESTER</b>   30 ECTS	Advanced Packaging Technology IC	3	6
	Life Cycle Assessment I IC	1,5	3
	Methods in Resource Management IC	2	4
	Presentation Techniques IC	1	2
	Research and Project Management IC	2,5	5
	Scientific English in Packaging Technology I IC	1,5	3
	Scientific Working IC	1,5	3
	Statistics in Scientific Working IC	2	4
<b>2<sup>nd</sup> SEMESTER</b>   30 ECTS	Conflict and Moderation Techniques IC	1	2
	Innovation, Entrepreneurship & Strategy IC	3	6
	Leadership IC	1	2
	Legal Aspects in Sustainability IC	2	4
	Life Cycle Assessment II IC	1,5	3
	Packaging Testing Systems and Technology IC	3	6
	Scientific English in Packaging Technology II IC	1,5	3
	Sustainability and Resource Management IC	2	4

	LECTURE	SCH	ECTS
<b>3<sup>rd</sup> SEM</b>   30 ECTS	Elective I LE	1,5	3
	Elective II LE	1,5	3
	Financial Management IC	3	6
	Managerial Economics IC	3	6
	Regulatory Affairs IC	1	2
	Toxicology IC	2	4
	Trends and Future Markets in Packaging IC	3	6
	<b>4<sup>th</sup> SEM</b>   30 ECTS	Elective III LE	1,5
Master Seminar SE		1,5	3
Master Thesis			18
Packaging Development and Design IC		3	6

### Abbreviations

ECTS	ECTS Credits
IC	Integrated Course
SE	Seminar
SCH	Semester Credit Hours
LE	Lecture

**More information:** [www.fh-campuswien.ac.at/pts-m-en](http://www.fh-campuswien.ac.at/pts-m-en)  
 Secretary's Office: [pts@fh-campuswien.ac.at](mailto:pts@fh-campuswien.ac.at) | +43 1 606 68 77-3565



# Overview of Diversity

## APPLIED LIFE SCIENCES

### BACHELOR

- Bioengineering | PT
- Molecular Biotechnology | FT
- Packaging Technology | PT
- Sustainable Management of Resources | PT

### MASTER

- Bioinformatics | PT
- Bioprocess Technology | PT
- Biotechnological Quality Management | PT
- Molecular Biotechnology | FT
- Packaging Technology and Sustainability | PT

## BUILDING AND DESIGN

### BACHELOR

- Architecture – Green Building | FT
- Civil Engineering and Construction Management | PT | FT

### ACADEMIC COURSE

- Technical Building Equipment | PT

### MASTER

- Architecture – Green Building | FT
- Civil Engineering and Construction Management | PT
- Technical Building Equipment | PT

## HEALTH SCIENCES

### BACHELOR

- Biomedical Science | PT | FT
- Dietetics | FT
- Logopedics – Phoniatrics – Audiology | FT
- Midwifery | FT
- Occupational Therapy | PT | FT
- Orthoptics | FT
- Physiotherapy | PT | FT
- Radiological Technology | FT

### ACADEMIC COURSE

- Sonography | PT

### MASTER

- Health Assisting Engineering | PT

## APPLIED NURSING SCIENCE

### BACHELOR

- Health Care and Nursing | FT

### ACADEMIC COURSES

- Health Care and Nursing, Practice Mentoring | PT
- Primary Health Care Nursing | PT
- Public Health | PT

### MASTER

- Advanced Nursing Counseling | PT
- Advanced Nursing Education | PT
- Advanced Nursing Practice – Focus On Nursing Management | PT
- Health Assisting Engineering | PT

## SOCIAL WORK

### BACHELOR

- Social Management in Early Education and Care | PT
- Social Work | PT | FT

### MASTER

- Spatial and Clinical Social Work | PT
- Children- and Family-Centered Social Work | PT
- Social Economy and Social Work | PT

## ENGINEERING

### BACHELOR

- Applied Electronics | PT
- Clinical Engineering | PT
- Computer Science and Digital Communications | PT | FT
- High Tech Manufacturing | FT

### ACADEMIC COURSE

- Functional Safety for Automotive ISO 26262 | PT

### MASTER

- Electronic Systems Engineering | PT
- Green Mobility | PT
- Health Assisting Engineering | PT
- High Tech Manufacturing | PT
- IT-Security | PT
- Multilingual Technologies | PT
- Safety and Systems Engineering | PT
- Software Design and Engineering | PT
- Technical Management | PT

## ADMINISTRATION, ECONOMICS, SECURITY, POLITICS

### BACHELOR

- Integrated Safety and Security Management | PT
- Public Management | PT
- Tax Management | PT


### MASTER


- Digital Transformation & Tax Technology Management MBA | PT
- Digitalization, Politics and Communication | PT
- Integrated Riskmanagement | PT
- International Relations and Urban Policy | PT
- Leadership, Politics and Management | PT
- Public Management | PT
- Tax Management | PT


PT ... Part-time, FT ... Full-time

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With more than 8,000 students at three campuses and five partner locations, FH Campus Wien is Austria's largest university of applied sciences. The departments of Applied Nursing, Applied Life Sciences, Building and Design, Health Sciences, Social Work, Engineering as well as Administration, Economics, Security, Politics offer a choice of more than 60 part-time and full-time degree programs and courses. Application-oriented research and development is bundled in nine specialized competence centers. Continuing education in the form of seminars, modules and certificate programs is covered by Campus Wien Academy. FH Campus Wien is committed to sustainability and is a founding member of the Sustainable Universities Cooperative.

FH Campus Wien is networked with the science, business, industry, social, public and health sectors, enabling us to offer excellent vocational training for everyone. And we mean everyone, with contact points for people with physical disabilities, chronic illnesses and an Equal Treatment Unit.

FH Campus Wien  
Favoritenstraße 222  
1100 Vienna

**U1** Altes Landgut

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