# SPACE FOR BIOLOGICAL CHEMISTRY.



**Bachelor's Degree Program** 



# **Biological Chemistry.**

Biological Chemistry is an academic degree program in natural sciences providing students with an understanding of chemistry as well as the underlying principles at the interface of chemical and biological processes in living systems. During the program, students focus on the pathways in chemistry that are vital for the function and analysis of living systems, such as fields in biology dominated by chemical interactions. The double degree Bachelor's program is offered by the JKU Linz together with the University of South Bohemia (USB) in Budweis (České Budějovice). Spanning two countries, this English-language program combines the academics of both universities, offering students two distinctive learning environments and proficiency in English.

#### YOUR BENEFITS

Comprehensive education in fundamentals of chemistry

Education in microbiology and molecular biology based on an understanding of biochemistry

Well-rounded, international academic experience abroad

Develop English proficiency

Double degree Bachelor's program

### To the Point



Bc. MONIKA LITVIŇUKOVÁ BSc Student of the Master's Degree Program

'I chose to enroll in the Biological Chemistry program because of its international character and the program is in English. Having access to two universities gives me an opportunity to use state-of-the-art techniques and learn from professionals. And Linz is a beautiful city!'



#### ANNA POLÁŠKOVÁ Student of the Bachelor's Degree Program

'Studying at two universities is enriching. The program can be challenging in regards to time and the workload, but you have a unique opportunity to learn from different viewpoints and contrasting approaches. It also means you engage directly with interesting people from around the world. I believe the program was influential in broadening my horizons ...'

# Educational Objectives, Career Prospects.

### **Educational Objectives**

The Biological Chemistry program prepares students for careers that require a solid education and an international background in chemistry and biology. After completing the Bachelor's degree program, students will demonstrate a basic understanding of chemistry, including general, organic, inorganic, analytical, and physical chemistry as well as in molecular biology and bionalytical issues. The two distinct learning environments at each university mean that students not only develop critical thinking and problem-based learning skills, they also cultivate cross-cultural communication skills in order to work effectively across borders as part of an interdisciplinary team. The international, double-degree program provides graduates with a broad foundation in modern sciences and graduates have outstanding career prospects.

## Job Opportunities

Students who successfully complete the Bachelor's degree program in Biological Chemistry are internationally qualified to pursue professions:

- at research facilities, medical laboratories
- in production and quality control at biotechnology and chemical companies, such as for medical products, pharmaceuticals, biopolymers, cosmetics, natural products, fibers, etc.
- at offices, agencies, and authorities (such as environmental, employee, and consumer protection as well as licensing offices for chemical and biological products and/or processes)

Following the successful completion of the Bachelor's degree program, a large number of students opt to continue their studies by enrolling in the Master's degree program.



# Bachelor's Degree Program.

### Subject Areas

As part of the Bachelor's degree program, students are required to complete courses totaling 180 ECTS credits in the following areas:

	JKU		USB		JKU	JKU USB
SEMESTER	1	2	3	4	5	6
General and Inorganic Chemistry	•					
Analytical Chemistry	•	•			•	
Mathematics and Physics	•	•			•	•
Communication and Ethics	•		•		•	
Molecular Biology		•	•	•		
Organic Chemistry		•			•	
Biochemistry			•	•		
Biology			•	•		
Informatics				•	•	
Physical Chemistry					•	•
Free Electives	•	•	•	•	•	•
Bachelor Theses						•
Bachelor's Examination (State Exam)						•

PROGRAM:

Bachelor's Degree Biological Chemistry

ACADEMIC DEGREE: Double Bachelor's Degree: Bachelor of Science (BSc), Bachelor (Bc)

**PROGRAM DURATION:** 6 semesters

ECTS: 180 credits

PROGRAM LANGUAGE: English

See: jku.at/studienrichtung, the curriculum, or visit the Student Information and Advising Services (SIBS) for detailed information.

## Additional Information

• Admission requirements to the Bachelor's degree program: General university entry qualifications (such as an Austrian 'Matura' diploma)

See: jku.at/studienrichtung or contact the Admissions Office for information about admission requirements.

The degree program takes place at two universities: 1st, 2nd and 5th semester: JKU Linz
(A); 3rd and 4th semester: USB Budweis (CZ);
6th semester: JKU Linz (A)/USB Budweis (CZ).

#### JKU Post-Graduate Degree Programs

- Master's Degree in Biological Chemistry
- Master's Degree in Technical Chemistry
- Master's Degree in Bioinformatics
- Master's Degree in Polymer Chemistry
- Master's Degree Management in Polymer Technologies (MPT)

# Academic Advising.

### **General Information**

## STUDENT INFORMATION AND ADVISING SERVICES (SIBS)

Lecture Tract, Hall A +43 732 2468 3450 studium@jku.at jku.at/sibs

# AUSTRIAN STUDENT UNION LINZ - OFFICE OF ACADEMIC ADVISING

Main Campus Library (ground floor) and the Lecture Tract +43 732 2468 1122 studienberatung@oeh.jku.at oeh.jku.at

#### WOMEN IN TECHNOLOGY (FIT)

Hochschulfonds Building (first floor), Rm. HF 131 +43 732 2468 3224 fit@jku.at jku.at/fit

#### ADMISSIONS OFFICE

Bank Building, 1st Floor, Rm. 113 A/B +43 732 2468 3180, -3181, -3271 admission@jku.at jku.at/admission

#### CONTACT

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fakulta Faculty of Science

Přírodovědecká Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice