

MASTER'S DEGREE PROGRAM

CHEMISTRY AND CHEMICAL TECHNOLOGY.



Acquire a greater degree of expertise in chemistry or deepen and enhance your research experience. The Master's degree in Chemistry and Chemical Technology at the JKU offers exciting opportunities for the future. Unlock the secret of molecules so technology can work better for us and provide more sustainability in our lives.

JKU

LINZ INSTITUTE
OF TECHNOLOGY

Chemistry and Chemical Technology.

The Master's degree program in Chemistry and Chemical Technology at the JKU is an extension of the Bachelor's degree program of the same name. The program has been designed to provide students with a deeper understanding of the subject area on an advanced scientific level - focusing on the technical and industrial aspects of chemical technologies and process engineering. In addition, students can specialize in selected areas of chemistry. The program allows students to acquire and hone their skills in order to successfully implement innovative approaches in the development and improvement of chemical syntheses and processes. Students will be able to critically assess the impact new technologies may have on society and on the environment.

YOUR BENEFITS

Acquire specialized expertise in the field of Chemistry and Process Engineering

Combine theory with real-world applications

Outstanding student support services in small groups as part of an internship

Opportunity to focus on a specific field according to your interests or career goals



Educational Objectives, Career Prospects.

Educational Objectives

The Master's program is an extension of the undergraduate degree program in Chemistry and Chemical Technology, expanding on the base-knowledge curriculum in technical chemistry and process engineering. The program focuses on the complex relationships between technology and industry. Students can deepen their scientific understanding and round off their education by not only individually focusing on various areas of chemistry, but also by taking part in research projects as a part of your Master's thesis.

Job Opportunities

Graduates in the field of chemistry are well-educated and have numerous career prospects, particularly exceptional positions requiring specialized education. Program graduates are highly sought-after and are well qualified to work in the following fields:

- Research & development at research institutions and/or chemical industry companies (petrochemical industry, food, paper, pulp, cosmetics industry, etc.), or related industries (pharmaceutical industries, biotechnologies, metallurgy, energy technology, etc.)
- Production in the chemical industry as well as related industries
- Chemical quality control
- Activities as an expert or consultant (such as for government agencies and offices in areas including environmental protection, worker and consumer protection, occupational safety)



Master's Degree Program.

Subject Areas (Overview)

As part of the Master's degree program, students are required to complete courses totaling 120 ECTS credits in the following areas:

SEMESTER	1	2	3	4
Bridge subject (BC)*	•	•		
Analytical Chemistry			•	
Organic Chemistry	•			
Inorganic Chemistry		•	•	
Physical Chemistry		•	•	
Chemical Technologies of Inorganic Materials	•	•	•	
Chemical Technologies of Organic Materials	•	•	•	
Chemical Process Engineering	•	•	•	
Soft Skills		•	•	
Electives (CCT)**	•	•	•	•
Free Electives (BC)*		•	•	
Free Electives (CCT)**	•	•	•	
Master's Thesis				•
Master's Thesis Seminar/Master's Examination				•

PROGRAM:

Master's Degree
Chemistry and Chemical
Technology

ACADEMIC DEGREE:

DiplomingenieurIn
(DIⁱⁿ/DI)

PROGRAM DURATION:

4 semesters

ECTS:

120 credits

PROGRAM LANGUAGE:

English

Office of Student Information
& Academic Advising Services
(SIBS) for detailed informa-
tion about the program and
curriculum.

*for graduates of the Bachelor's program Biological Chemistry

**for graduates of the Bachelor's program Chemistry and Chemical Technology

Additional Information

- Admission requirements for Master's degree program:
Bachelor's degree Chemistry and Chemical Technology (JKU), Biological Chemistry (JKU) or an undergraduate degree comparable in content and scope.

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

Advanced Degree Programs

- Doctorate Degree in Technical Sciences

We Are Here For You.

The JKU in a Nutshell

The JKU is home to over 21,000 students. As Upper Austria's largest institution for research and education in law, business, social sciences, engineering, life sciences, and medicine, the JKU offers over 70 exciting academic degree programs. The JKU is one of Austria's most beautiful campus-style universities and boasts an outstanding student-faculty ratio.

Dates and Deadlines

See: jku.at/ma-cct for important dates and deadlines (such as the start/end of the semester, admissions deadline, holiday schedule, and lecture free days)

Services and Academic Advising

STUDENT INFORMATION AND ACADEMIC ADVISING SERVICES (SIBS)

Lecture Tract, Hall A
P +43 732 2468 3450
studium@jku.at
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ADMISSIONS OFFICE

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CONTACT

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