

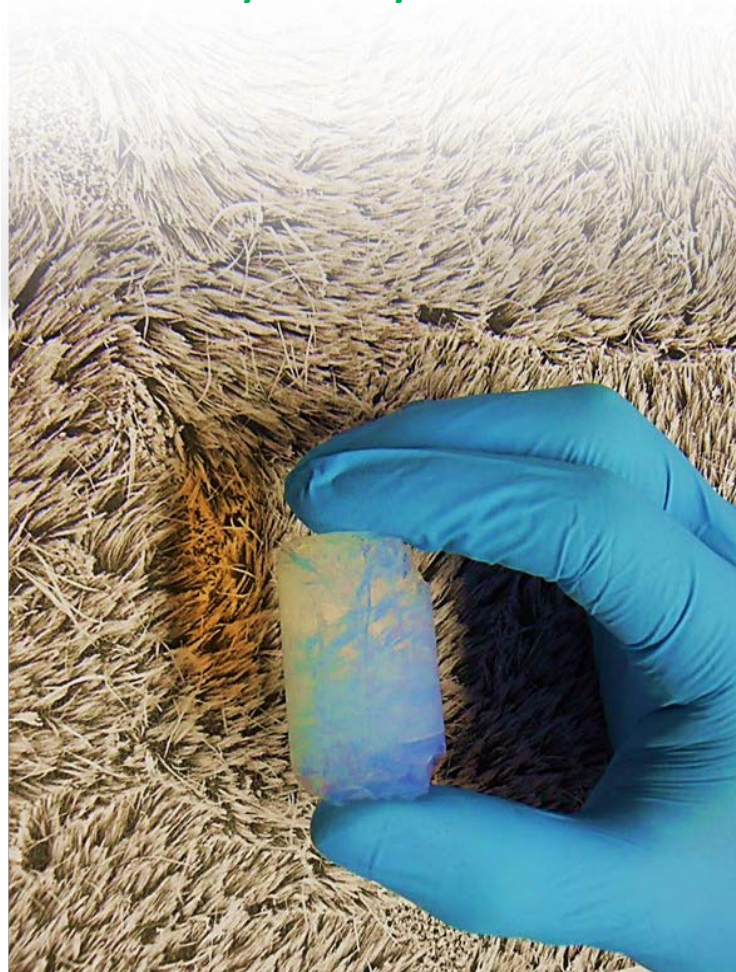
CONTACT

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Paris Lodron University of Salzburg

International Master of Science Chemistry and Physics of Materials



PARIS LODRON UNIVERSITY OF SALZBURG



Created by Prince Archbishop Paris Lodron in 1622, the University of Salzburg (PLUS) is now composed of four faculties (Theology, Law, Cultural and Social Sciences, Natural Sciences) with approximately 18,000 students and 2,800 employees.



The University of Salzburg offers students a wide variety of Bachelor, Master and PhD programs with a balanced ratio of teachers to students. A range of extra-curricular activities are also available to PLUS students at the Sportcenter or with various student clubs.



CHEMISTRY AND PHYSICS OF MATERIALS (CPM) MASTER PROGRAM

Our society is currently facing major challenges in the areas of energy, medicine, ecology, construction and transportation. For further advancements in these key areas, it has become crucial to discover and develop **novel functional materials**.

Content

The Master program *Chemistry and Physics of Materials* (CPM) offered at the Department of Materials Science and Physics, prepares students for these important issues. It is opened to students from all countries and different scientific backgrounds.

It is focused on the synthesis, characterization and processing of synthetic and naturally-occurring **functional materials**. Through both fundamental and applied science courses, this program provides students with a complete understanding of the influence that the physical, chemical and biological properties of materials can have over their integration within functional devices and real-life applications. Students enrolled in this program will gain a well-rounded education in materials science and engineering that meets the needs of industry and academia.

Entrance requirements

A B.Sc. degree in a field related or equivalent study at a certified post-high school educational institution in Austria or in a foreign country (Physics, Chemistry, Engineering, Materials Science etc.).

ORGANIZATION AND COURSE OF STUDY

Academic Degree: M.Sc.

Program duration: 3 semesters

ECTS units: 90

Start-date: Winter or Summer semester

Structure

The CPM Master of Science program is an English-based curriculum. It is research orientated and is three semesters in length. A balanced mix of required core courses and elective modules provides a flexible and individualized curriculum. The first two semesters introduce a number of modern methods of synthesis, processing, and characterization of functional materials. The third semester is dedicated to the Master's thesis research work.

Research

During the course of the M.Sc. degree program, students will become familiar with the means of independent experimental scientific research, through a constant interaction with our Faculty members. This will provide students with the ability to find innovative solutions to material-, processing- and sustainability-related problems.



ORGANIZATION AND COURSE OF STUDY

Each semester corresponds to 30 ECTS units.

Core courses

- Chemistry of Materials
- Physics of Materials
- Materials Characterization
- Health, Safety and Regulations

Five elective modules

- Nanomaterials and Interfaces
- Biological Materials and Environment
- Materials, Minerals and Resources
- Computational Materials Science
- Industrial Management



Further information about this curriculum is available online on the PLUS website:

<http://www.uni-salzburg.at/cpm>