



TECHNISCHE UNIVERSITÄT  
CHEMNITZ

Advanced Functional Materials  
Faculty of Natural Sciences

International Master Program

# Advanced *functional* Materials



Research and development of modern, innovative, and functional materials with pronounced potentials for profound applications in science and technology.

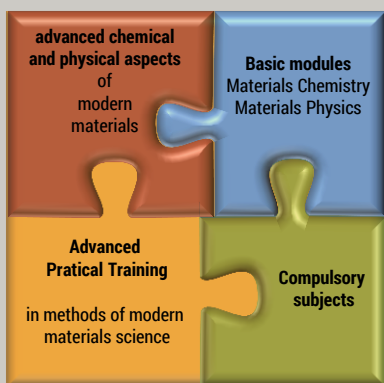
## Basic Information

<b>Admission requirements</b>	B.Sc. in physics or chemistry or equivalent degree
<b>Degree</b>	Master of Science
<b>Prescribed period of study</b>	4 semesters
<b>Start of Program</b>	Winter semester

## The Program at a Glance

The advanced chemical and physical aspects of modern materials and the transfer of skills in manufacturing, synthesis and analysis of functional materials are the key issues of the program Advanced Functional Materials. The research oriented extension and intensification of physical and chemical knowledge is based on advanced practical training in actual research fields in a modern laboratory environment.

The entire program Advanced Functional Materials can be studied in English language. Compulsory subjects are also offered in German language. Modules for a profound language training enhance the capability of an unrestricted communication in international research communities and work groups.



### Materials Chemistry

- Synthetic methods in chemistry
- Materials for innovative energy concepts
- Sustainable production technologies

### Materials Physics

- Surfaces, Thin Films & Interfaces
- Semiconductor Physics
- Photovoltaics

### Compulsory Subjects

(taught either in English or German language)

- Nanophysics
- Microscopy and Analysis on the nanoscale
- Surface Spectroscopies
- and others...

### Central Course Guidance Service

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### Academic Counseling

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