
CIVIL ENGINEERING

**BUILDING
MATERIAL
ENGINEERING**
M.Sc.

MASTER'S DEGREE PROGRAMME BUILDING MATERIAL ENGINEERING

Are you brimming with ideas of what materials in the future might look like? Can you imagine yourself carrying out high-tech tests at a small scale and influencing long-term building at a large scale? Then come to Weimar!

Increasing demands on modern construction, renovation, environmental protection, recycling and waste-product usage require materials with custom-made characteristics. For materials scientists in the construction sector, this requires the ability to think beyond one's area of expertise. In the Building Material Engineering master's degree programme, we offer you a wide range of opportunities to do just that. With its solid foundation of theoretical knowledge and practical application in a creative academic atmosphere, you will leave the programme with excellent career opportunities.

For more information, please visit: www.uni-weimar.de/bauing.

»What could be more exciting than researching and developing a wide variety of building materials? Whenever I talk with graduates from Weimar, they always say things like ›Studying building materials was the best decision I ever made.« or ›A building materials engineer ... is a specialist in high demand, he has every opportunity to work in developing and applying building materials ...«.«

Prof. Dr.-Ing. Andrea Dimmig-Osburg Head of the degree programme

WHAT DOES THE PROGRAMME OFFER?

This four-semester master's degree programme in Building Material Engineering offers engineering-oriented as well as natural scientific-oriented subjects. It teaches students about the durability and mechanisms of deterioration of building materials, the diagnosis of structural damage and the possibilities of maintenance and renovation but also focuses on the relationships of structural characteristics of building and construction materials. Practical sessions and projects enable students to gain experience and skills in testing and analysis technology and highlight the environmental aspects of recycling building and construction materials. The practical and experimental sessions teach students also how to analyse and test building and construction materials, whereby independent learning is especially emphasised.

As part of the compulsory and free elective modules, you may select courses from the Faculty of Civil Engineering, as well as other faculties or the Language Centre. This enables you to further specialise in your desired area of interest. In your master's thesis, you must demonstrate your ability

to scientifically evaluate and discuss a current issue of relevance in the area of construction research.



HOW DO I APPLY?

To be eligible for admission, you must have attained a »Bachelor of Science« (B.Sc.) degree in Building Material Engineering or Civil Engineering. Graduates with other degrees may be admitted following an individual assessment by the examination committee. Students may begin the programme in either the winter or summer semester. Application is possible through the online portal of the Bauhaus-Universität Weimar at **www.uni-weimar.de/online-application**. If you have any other questions, please contact our faculty advisors at: **fsb.bsiw@bauing.uni-weimar.de**.



WEIMAR FOR STUDENTS

In Weimar, there is a long tradition of venturing in new directions. In awareness of the historic accomplishments – Classicism, Bauhaus, German democracy – student life in Weimar is also anchored in its own contemporary microcosm. The cultural spectrum of the city is comprised of numerous small organisations, e.g. the student union in M18, the university gallery ›marke.6‹, the student-initiated soap box derby SpaceKidHeadCup. Every two years, the Faculty of Civil Engineering organises the popular concrete-boat christening ceremony at the outdoor swimming pools at the Schwanseebad. Four cinemas, several small theatre venues, over 20 museums and diverse student clubs and concert events further enhance Weimar's reputation as a European capital of culture and contribute to an exciting and eventful student life. When you come to Weimar, you immediately notice its familiar, small-town feeling. Most places are close by and can be quickly and comfortably reached by bike or on foot.

For more information about the opportunities awaiting you in Weimar, please visit: **www.uni-weimar.de/weimar-for-students**.

AND AFTER MY STUDIES?



Building material engineers are versatile and often work as intermediaries at companies, institutes and planning offices. The Master of Science degree in Building Material

Engineering qualifies candidates for managerial positions in testing, research and development. This entails supervising co-workers, developing, executing and monitoring projects, as well as writing research and test reports. Building material engineers are qualified to perform a variety of tasks, such as:

- _ Research and development in the entire field of building materials
- _ Production of building materials and the technology for manufacturing them
- _ Building material testing, certification and quality assurance in construction
- _ Consulting in building materials and construction
- _ Building renovation planning
- _ Qualified damage assessment and causal research
- _ Recycling and environmental protection
- _ Management and controlling in the field of building and construction materials
- _ Controlling and project management in the entire building material sector

Students who attain an above-average final grade in this master's degree programme are eligible to pursue a doctorate or gain admission to a PhD programme.

General Academic Advising

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