



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Metallic Materials Technology

TU Bergakademie Freiberg • Freiberg

Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	<p>Courses are given in English (100%).</p> <p>Exception: one compulsory German language course</p>
Programme duration	4 semesters
Beginning	Winter and summer semester
Additional information on beginning, duration and mode of study	It is recommended to start in the summer semester.
Application deadline	<p>15 April for a start in the winter semester</p> <p>15 October for a start in the summer semester</p> <p>Applicants from India can submit the APS (Academic Evaluation Centre) later and do not have to submit it at the time of application. The proof must be submitted with the enrolment at the latest.</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>At TU Bergakademie Freiberg, we bring together experienced researchers and lecturers from different scientific communities to offer our graduate students the education needed for a successful career in modern materials science.</p> <p>Since the winter semester of 2017/2018, the international Master's programme in Metallic Materials Technology has been offered at TU Bergakademie Freiberg.</p> <p>Manufacturing of metallic components is one of the most important fields of any national economy. Starting with the production of materials followed by processing and metal forming, it is one of the most innovative technologies. Engineers in metal production, metal forming, and foundry technology contribute to this technological development.</p>

Based on the knowledge that has been gained in a Bachelor's course of studies, a deeper knowledge of steel production, non-ferrous metallurgy, metal forming, and foundry technology will be developed in this Master's programme. Furthermore, practical skills related to economics knowledge are gained.

Course Details

Course organisation	<p>A minimum of four semesters (two years) is required to complete the programme. This MSc programme starts in the summer semester. Our academic year consists of two semesters. The language of instruction in all courses is English.</p> <p>In the first semester, students receive an overview of the fundamentals of materials science and materials engineering. From the second semester onwards, students have to choose one of four specialisations: Metal Forming, Foundry Technology, Steelmaking, or Non-ferrous Metallurgy. In addition, we offer a catalogue of compulsory elective modules, for example in the field of business administration. The last semester is reserved for the Master's thesis.</p>
A Diploma supplement will be issued	Yes
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Currently 94 EUR per semester
Costs of living	760 EUR to 885 EUR per month, depending on individual lifestyle; rent and utilities: 200 EUR to 320 EUR
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>Deutschlandstipendium:</p> <ol style="list-style-type: none">1. The "Deutschlandstipendium" is a national scholarship programme that supports above-average students with excellent grades. Social commitment, a willingness to take responsibility and special social, family or personal circumstances will also be taken into account (six months, 300 EUR per month).2. Grants awarded to exceptionally committed students (three to four months, 300 EUR per month)3. Study completion grant (three months, 300 EUR per month)

Requirements / Registration

Academic admission requirements	Candidate Profile <p>The Metallic Materials Technology Master's programme is open to students who wish to upgrade their knowledge in engineering science, specialised in metal forming, foundry technology, non-ferrous metallurgy, or steel production. The MMT programme is designed to attract students from different fields of science and engineering to create an interdisciplinary environment and enable teamwork between scientists and engineers.</p>
	Minimum Conditions of Admission <p>Bachelor's degree (at least six semesters) or an equivalent degree in a course of study in the field of metallurgy, materials engineering, or another related discipline.</p> <p>Industrial Internship</p> <p>A 12-week industrial internship is required for this degree programme. It is recommended to complete or partially complete the internship before the degree programme. However, missing internship periods can also be completed during the degree programme, e.g. during the lecture-free periods until the topic of the Master's thesis is issued. The internship can be completed in different companies (materials technology, materials science, metallurgy, or related fields). The certificates must show which activities have been carried out.</p>
	Language requirements
	TOEFL with at least 90 points (Internet-based), IELTS score 6.5
Application deadline	15 April for a start in the winter semester
	15 October for a start in the summer semester
	Applicants from India can submit the APS (Academic Evaluation Centre) later and do not have to submit it at the time of application. The proof must be submitted with the enrolment at the latest.
Submit application to	Application portal of TU Bergakademie Freiberg

Services

Possibility of finding part-time employment	It is possible to find part-time employment on campus, e.g. as a student assistant or in the canteen.
Accommodation	Different kinds of accommodations are available on campus and in the city of Freiberg, from single flats to shared flats. Prices vary from 200 EUR to 320 EUR, including utilities. In the dormitory, each student has her/his own room, but usually the bathroom and the kitchen have to be shared with other flatmates. Living in a dormitory is usually the first choice for new international students. There is a good chance that you will get a place in a dormitory if you apply early. The International Office supports international students in finding accommodation. https://blogs.hrz.tu-freiberg.de/iuz/accommodation/
Career advisory service	The International Office and the Career Centre offer seminars and workshops to help students successfully apply for jobs.

TU Bergakademie Freiberg

Technische Universität Bergakademie Freiberg (TU BAF) was founded in 1765. It is one of the world's oldest technical higher education institutions in the world, with an outstanding international reputation for its education and research based on the principle of constant innovation.

TU BAF is known for its famous alumni, such as the polymath Alexander von Humboldt, who studied in Freiberg, and for the discovery of two chemical elements: Germanium (C. Winkler, 1885) and Indium (F. Reich & Th. Richter, 1863).

TU BAF is the "University of Resources". With its four core themes – geosciences, materials, energy, and environment – TU BAF has a distinctive profile that addresses the specific issues of our modern industrial society. Teaching and research reflect a practical orientation in responding to the real needs of industry. Thanks to its financial backing, including funding from private sources, TU BAF is one of the top 10 best research-oriented universities in Germany. This guarantees a high level of education in the fields of natural sciences, engineering and economics.

Thanks to its excellent study conditions and intensive mentoring programmes, TU BAF achieves top positions in national rankings.

The university's underground teaching and research mine is open to visitors and serves as a natural laboratory. The mine allows for "hands-on" exploration of the subterranean world of Freiberg, with its extensive mining history dating back to the 14th century.

About 40% of the university's 4,000 students are international. As a small university, the campus offers numerous advantages. Short distances on campus and personal contact between students and professors are major benefits.

The university is divided into six faculties and has several research centres, such as the Interdisciplinary Environmental Research Centre (IÖZ), the Scientific Diving Centre (SDC), and the Mine Water Research Centre. The Helmholtz Institute Freiberg for Resource Technology, which was founded by TU BAF and the Helmholtz-Zentrum Dresden-Rossendorf (HZDR), researches new and innovative ways to explore high-tech metals such as gallium, indium, germanium, and rare earths.

The university and student initiatives offer a wide range of cultural events and leisure activities as well as more than 50 different types of sports activities at the university sports centre.



University location

Freiberg is located in the centre of the state of Saxony in the picturesque Erzgebirge Mountains, 40 km south-west of Dresden and 240 km south of Berlin.

[Location on a map on Openstreetmap.org](#)

Freiberg is more than 850 years old and was founded after the discovery of silver ore in 1168. Today, Freiberg has around 40,000 inhabitants. The medieval heart of the town, which is almost completely intact, is very attractive: the Upper Market Square with its late Gothic patrician houses and the Freiberg Cathedral at the Lower Market Square with its famous Silbermann organ and golden portal. Along with the world's oldest town theatre, a modern multiplex cinema, and nightclubs, more than a hundred restaurants, cafés, and pubs invite you to take a break and enjoy life. There are sports facilities, a modern open-air and indoor swimming pool, and a park which surrounds the town centre like a green belt. Since 2008, the mineral collection "Terra Mineralia" functions as a centre of attraction for tourists, students, and inhabitants of Freiberg. The mineral collection, one of the largest collections in the world, is shown in the refurbished castle "Freudenstein" in the town centre. The nearby Saxon Switzerland National Park and the Erzgebirge Mountains are beautiful places for a wide variety of outdoor activities including hiking and climbing in the summer and skiing in the winter. Dresden, Leipzig, and Berlin are easily accessible by train and offer plenty of social, cultural, and recreational alternatives.

Contact

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🌐 Course website: <https://tu-freiberg.de/en/master-metallic-materials-technology>

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Disclaimer

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