



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Advanced Mineral Resources Development (AMRD)

TU Bergakademie Freiberg • Freiberg

Overview

Degree	International Master of Science in Advanced Mineral Resources Development (AMRD)
Course location	Freiberg
In cooperation with	Montanuniversität Leoben, Austria; Dnipro National Mining University, Ukraine; China University of Mining and Technology, Beijing; Amirkabir University of Technology Tehran, Iran; Superior Técnico of the Universidade de Lisboa, Portugal; Trinity College, Ireland; Technical University of Madrid, Spain; German-Mongolian Institute of Resources and Technology, Mongolia; Universidad Politécnica de Madrid, Spain; Universidad de León, Spain
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 January
Tuition fees per semester in EUR	Yes
Additional information on tuition fees	Fees at Montanuniversität Leoben , Austria Tuition fee for non-EU citizens: 727 EUR No tuition fee for EU citizens and students from AMRD partner universities TU Bergakademie Freiberg , Germany: no tuition fee Third semester (depends on the partner universities): Information can be found on their websites.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes

Description/content

There is a growing worldwide need for well-trained experts in the field of raw materials, mining, and mine remediation. The aim of the international joint Master's degree programme in "Advanced Mineral Resources Development" (AMRD) is the acquisition of knowledge and competence in developing sustainability and environmentally friendly methods to handle raw materials and to operate mine sites.

The study programme combines natural, engineering, and business sciences; environmental law; and general management of georesources.

This joint degree programme involves the following universities: Montanuniversität Leoben, Austria; Technical University Bergakademie Freiberg in Germany; China University of Mining and Technology in Beijing; Amirkabir University of Technology in Tehran, Iran; National Mining University in Dnipro, Ukraine; Technical University of Madrid, Spain; Trinity College in Dublin, Ireland; University of León, Spain; and Universidade de Lisboa in Lisbon, Portugal.

The direct connection of the teaching contents and especially the innovative research fields of the individual universities gives the graduates the chance to start their professional careers in leadership positions in the designated field of this study programme.

Course Details

Course organisation

The AMRD programme covers 120 ECTS points. This corresponds to a regular study period of four semesters (two years). Each semester you have to acquire approximately 30 ECTS points. The programme semesters are located at the following institutions:

- The first semester takes place at **Montanuniversität Leoben, Austria**.
- The second semester takes place at **TU Bergakademie Freiberg, Germany**.
- The third semester is held at one of the above-mentioned partner universities.
- The fourth semester, which is normally for the Master's thesis, can be completed at any of the partner universities.

First semester (winter semester), Montanuniversität Leoben, Austria

Obligatory modules (23 ECTS credit points, or CP):

- Mineral Economics (3 CP)
- Economic Geology and Mining Economic (6 CP)
- Mining in Austria, European Union, and Worldwide (1 CP)
- Deposit Modelling and Associated Software (2 CP)
- Mine Operation, Scheduling, Costing (3 CP)
- Sustainable Development: History of Thought, Basic Concepts, and Current Applications (6 CP)
- Seminar in Mining Engineering and Mineral Economics (2 CP)

Elective modules (seven credit points, must be selected from a list)

Second semester (summer semester), TU Bergakademie Freiberg, Germany

Obligatory modules (24 credit points):

- Problem-Based Learning on Licensing, Expectation, and Stakeholder Management (5 CP)
- Introduction to Biohydrometallurgy (4 CP)
- Radioactivity (6 CP)
- Reclamation (6 CP)
- Environmental Geotechnics (3 CP)

Elective modules (six credit points must be selected and completed from a list)

For more detailed information – mainly also about the modules offered at the partner universities in the third semester – please refer to the website of the programme at <https://www.tu-freiberg.de/en/master-advanced-mineral-resources-development>.

International elements	<ul style="list-style-type: none"> • Courses are led with foreign partners
Integrated internships	Internships are parts of the lectures. They also can be carried out on an individual basis.
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	Yes
Additional information on tuition fees	<p>Fees at Montanuniversität Leoben, Austria Tuition fee for non-EU citizens: 727 EUR No tuition fee for EU citizens and students from AMRD partner universities</p> <p>TU Bergakademie Freiberg, Germany: no tuition fee</p> <p>Third semester (depends on the partner universities): Information can be found on their websites.</p>
Semester contribution	<p>Montanuniversität Leoben, Austria: student union fee (obligatory for all four semesters): 20.20 EUR per semester TU Bergakademie Freiberg: 94 EUR per semester For the partner universities: Information can be found on their websites.</p>
Costs of living	750 EUR to 900 EUR per month, depending on individual lifestyle, rent and utilities: 250 EUR to 380 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 (300 EUR per month for one year). 2. Grants awarded to exceptionally committed students (three to four months, 300 EUR per month) 3. Study completion grant (300 EUR per month for three months)

Requirements / Registration

Academic admission requirements

Bachelor's degree (at least seven semesters) in mining or other relevant fields such as tunnel construction, geotechnics, mineral processing, engineering, geoengineering, applied geoscience, or mine surveying

Language requirements

Applicants must provide proof of sufficient English proficiency: Test of English as a Foreign Language TOEFL or International English Language Test System IELTS. For details, see our website. This test can be waived if an applicant obtained a Bachelor's degree in a country where English is the official language or English is the applicant's mother tongue.

Application deadline

31 January

Submit application to

TU Bergakademie Freiberg
Zulassungsbüro
Akademiestraße 6
09596 Freiberg
Germany

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 250 EUR to 380 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.

TU Bergakademie Freiberg

The Technische Universität Bergakademie – TUBAF – has a unique profile as a "resource university" with expertise in sustainable raw materials and energy management, along with material and substance recycling. Together with national and international partners, TUBAF develops modern technologies and processes for the responsible use of finite resources. In order to address the economic and ecological challenges of the 21st century, the six faculties conduct interdisciplinary research regarding alternatives for raw material extraction, energy technologies, materials and recycling processes.

The Bergakademie Freiberg was founded in 1765. It is therefore one of the world's oldest technical higher education institutions.



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 Openstreetmap.org](#)

Freiberg is more than 850 years old, and it 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. It features 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 "Terra Mineralia" mineral collection has functioned 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 "Freudenstein", a refurbished castle 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

TU Bergakademie Freiberg

Institute of Mining Engineering and Special Civil Engineering

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09599 Freiberg

✉ international@tu-freiberg.de

🌐 Course website: <https://www.tu-freiberg.de/en/master-advanced-mineral-resources-development>

📘 <http://facebook.com/bergakademie>

🐦 <https://twitter.com/TUBergakademie>

🌐 <https://www.linkedin.com/school/tu-freiberg.de>

📷 https://www.instagram.com/tu_bergakademie_freiberg/

📺 https://www.youtube.com/channel/UC76MdG8Ewd7_LNajayTzBag

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

Kennedyallee 50

D-53175 Bonn

www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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