



Montanuniversität
Leoben

INTERNATIONAL MASTER OF SCIENCE IN

Advanced Mineral Resources Development

Do you want to shape a sustainable future – from the ground up?

Responsibly produced minerals are the key to a sustainable future. That's why the international joint master's degree programme AMRD teaches skills in natural science, engineering, and economics for you to enable environmentally friendly mining from a business perspective.

The programme is taught in English and also promotes intercultural competence. You will complete the first semester at the Technical University of Leoben (Austria). The second at TUBAF in Freiberg (Germany) and the third and fourth semesters at one of our partner universities – currently in China, Spain, Portugal, Ukraine, Kenya, Uzbekistan, and Kazakhstan.

After graduation, you will be ready to pursue a global career in mining companies, public administrations, or international organisations. Where you will have the opportunity to transform the world's development of resources.

Move mountains

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MASTER'S PROGRAMME

Advanced Mineral Resources Development

PROGRAMME STRUCTURE | 120 ECTS

1st Semester (30 ECTS)

Mineral Economics	3 ECTS
Economic Geology and Mining Economics	6 ECTS
Mining in Austria, European Union and worldwide	1 ECTS
Deposit Modelling and associated Software	2 ECTS
Mine Operation, Scheduling, Costing	3 ECTS
Sustainable Development: History of thought, basic concepts and current applications	6 ECTS
Seminar in Mining Engineering and Mineral Economics	2 ECTS
Electives	7 ECTS

2nd Semester (30 ECTS)

Problem Based Learning on Licensing, Expectation and Stakeholder Management	5 ECTS
Introduction to Biohydrometallurgy	4 ECTS
Environmental Geotechnics	3 ECTS
Radioactivity	6 ECTS
Reclamation	6 ECTS
Electives	6 ECTS

3rd Semester (30 ECTS)

Underground Mining and Open Cast Mining	9 ECTS
Excavation Engineering, Rock Mechanics, Mine Safety, Mine Surveying	8,5 ECTS
Mineral Processing	6 ECTS
Electives	6,5 ECTS

4th Semester (30 ECTS)

Master Thesis	30 ECTS
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For programme details and registration follow the link.



04/2025