

A man wearing a yellow hard hat and a dark jacket is shown in profile, looking down at a blue handheld device. He is in a dark, rocky environment, possibly a tunnel or mine, with a bright light source illuminating the rock wall behind him. The device has the word 'ATMA' on it.

# Timrex

## TIMREX Master in Mineral Exploration

Awarded the EIT Label in 2022

Built on existing strong minerals exploration MSc programmes, TIMREX is a joint master's degree in mineral exploration with add-on innovation and entrepreneurship skills. The programme has a strong emphasis on field activities and the application of innovative exploration techniques and solutions is the specialty of TIMREX among the EIT-Labelled master programmes. Intensive fieldwork is expected from the students during the summer period between the first and second years of study. Students will develop their entrepreneurship, innovative and socio-civic skills, with strong support from industrial and research partners.

# Timrex

## An EIT-Labelled Master's Programme in Innovative Mineral Resource Exploration

ADVANCED FIELD WORK USING INNOVATIVE MINERAL EXPLORATION TECHNOLOGIES



HIGH-LEVEL MENTORING BY THE EUROPEAN FEDERATION OF GEOLOGISTS FOR YOUNG ENTREPRENEURS

MOBILITY WINDOW BETWEEN THE PARTNER UNIVERSITIES

[timrex-master.eu](http://timrex-master.eu)



... AND A SOLID THEORETICAL BACKGROUND!



Robotics



Innovative instruments



Data science



Modelling



Remote sensing



Geophysics



University of Zagreb  
FACULTY OF MINING,  
GEOLOGY AND PETROLEUM  
ENGINEERING



Supported by



Co-funded by the  
European Union



<b>Double Diploma</b>	Graduates will be awarded a double or single Master of Science degree from University of Miskolc, Wrocław University of Science and Technology, the University of Zagreb and/or Luleå University of Technology (depending on the study pathway chosen by the student). Graduates will also receive the EIT Label Certificate.
<b>Credits</b>	120 ECTS, 24 months
<b>Language of Instruction</b>	English
<b>Starts in</b>	September 2023 / February 2024 depending on year one university chosen
<b>Requirements</b>	Candidates should have a Bachelor's degree with strong earth sciences background (BSc in Geology, Geophysics, Earth Sciences, Earth Sciences Engineering, Geosciences Engineering, Mining Engineering), as well as an English language certificate (advanced knowledge level of English, minimum B2 level, for details please visit <a href="http://timrex-master.eu">timrex-master.eu</a> )
<b>Tuition fees</b>	Please consult the TIMREX website <a href="http://timrex-master.eu">timrex-master.eu</a> for up-to-date information
<b>Application Period</b>	First round: 15 February – 30 April Please visit <a href="http://timrex-master.eu">timrex-master.eu</a> for details
<b>Scholarships</b>	For students beginning in September 2023 or February 2024, EIT Label scholarships from EIT RawMaterials of €13,500 per eligible student are available. For information on how EIT Label scholarships will be awarded and who is eligible, please contact the coordinating university directly: <a href="mailto:timrex@uni-miskolc.hu">timrex@uni-miskolc.hu</a>



“The TIMREX summer school taught me many things starting from the geology of the region to the most innovative exploration techniques. I got a better understanding of igneous ore-forming processes, data interpretation, and visualisation methods. I am very glad that I had an opportunity to participate in this summer school, which gave me a lot of knowledge and brought me together with so many nice people.” - Irma Becelyte

— IRMA BECELYTE

#### PARTICIPATING UNIVERSITIES

##### University of Miskolc

Hungary

##### University of Zagreb - Faculty of Mining, Geology and Petroleum Engineering (RGNF)

Croatia

##### Wrocław University of Science and Technology

Poland

##### Luleå University of Technology

Sweden

#### FOR MORE INFORMATION

##### Faculty of Earth and Environmental Science and Engineering, University of Miskolc

Hungary,

H-3515 Miskolc-Egyetemváros

[timrex@uni-miskolc.hu](mailto:timrex@uni-miskolc.hu)

# Programme Structure

The TIMREX joint master programme is organised along seven mobility routes between the four academic partners. First year study is offered in parallel by the UM, UNIZG-RGNF and WUST, while the second year offers specialisations along the mobility routes.

The cohort starts in 2023 September at UM and UNIZG - RGNF and in 2024 February at WUST. Pathways involving UM, WUST and UNIZG-RGNF offer a double degree.

Visit [timrex-master.eu](http://timrex-master.eu) to explore the details of the 7 route options in the TIMREX study programme.

## TIMREX YEAR 1

(APPLIED EARTH SCIENCES AND EXPLORATION)

University of Miskolc

University of Zagreb

Wrocław University of Science  
and Technology

## MOBILITY TIMREX YEAR 2

(SPECIALISATIONS)

Luleå University of Technology  
(ore mineral exploration)

University of Miskolc  
(geophysical methods and instrumentation for exploration)

University of Zagreb  
(prospecting and exploration of non-metallic mineral resources)

Wrocław University of Science  
and Technology  
(applied skills in mining geology)



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## PROFESSIONAL PROFILES AFTER GRADUATION

Earth science specialists will be able to apply innovative mineral exploration methods and techniques in the field and integrate the collected data with comprehensive analytical and laboratory results. Students interested in equipment development or programming will have the opportunity to specialise in these topics, contributing to research groups and start-ups to develop sensors, portable analytical equipment, data processing and visualising software. In addition, students with an entrepreneurial mindset will learn entrepreneurial and socio-civic skills and attitudes suitable to becoming employed by a junior company, or to become a freelance expert – mentored by the industrial and research partners of the consortium.

## INNOVATIVE FIELD-BASED MINERAL EXPLORATION SOLUTIONS WITH TIMREX

The objective of the TIMREX master programme is to develop a high-quality education programme in the field of mineral exploration with double-degree routes, structured mobility pathways, mentoring sessions, and strong field-based training. The pillars involved in the education journey comprise 1) strong field work using innovative mineral exploration technologies applied in greenfield and brownfield mineral occurrences, 2) solid theoretical background for completion and management of exploration campaigns, and 3) processing and interpretation of field and laboratory-derived data with specialised software, as well as 4) development of entrepreneurial and socio-civic competences to join or establish junior exploration companies.



### ARE YOU A STUDENT WHO IS:

- Keen to develop a career in mineral exploration?
- Motivated to learn about innovative techniques and technologies in the field?
- Interested in spending one semester at a partner university to develop a different specialisation?
- Interested in acquiring entrepreneurship skills and building self-confidence for the market?

VISIT [TIMREX-MASTER.EU](https://www.timrex-master.eu)  
TO FIND OUT MORE AND APPLY