

DOCTORAL TRAINING (PhD)

The engineers and geographers who have earned a master's degree at the Faculty of Earth and Environmental Sciences and Engineering, or in MSc courses in engineering or science of other faculties with outstanding results have the opportunity to continue their studies in the Mikoviny Sámuel Doctoral School of Earth Sciences, following a program of studies and research designed for each student's interests. Full-time, part-time, or independent study programs are available. The duration of the PhD course is 8 semesters. The doctoral school carries out activities in those fields of the earth sciences that fit into the profile of the faculty, and that are within the scope of the accreditation granted to the doctoral program. The topic areas are related to institutes of the faculty, and thus the institutes play a major role in the establishment of educational and research programs and in offering research topics.



Research topics: Applied geology and hydrogeology; Fluid production and transport systems; material extraction and preparation, environmental process technology; Applied geophysics; Physical and human geography. The number of Hungarian and foreign students participating in the PhD program is between 50 and 60.

#GREEN SCIENCE FUTURE

University of Miskolc

Discover the University of Miskolc – Your Gateway to Central Europe

The University of Miskolc is one of Hungary's leading universities, located in the city of Miskolc, surrounded by the scenic Bükk mountains in the northeast of the country. With a history dating back to 1735 (as the Academy of Mining and Metallurgy in Selmecbánya, later moved to Miskolc), it is the oldest institution of higher technical education in world, and today it has grown into a modern, multi-disciplinary university (8 faculties).

International Atmosphere

The university welcomes students from over 60 countries and offers a wide range of English-taught bachelor's, master's, and doctoral programs, particularly strong in engineering, earth sciences, economics, law, social sciences, health care and the arts.

Campus Life

The University of Miskolc has one of the largest and greenest campuses in Central Europe, with all faculties, dormitories, libraries, sports and cultural facilities in one place. Students live and study in a safe, vibrant environment with opportunities for sports, arts, and student organizations.



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**FACULTY OF
EARTH AND ENVIRONMENTAL
SCIENCES AND ENGINEERING**



UNIVERSITY OF MISKOLC, HUNGARY

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BSc

EARTH SCIENCE AND ENGINEERING BSc

Starting in 2026, our unique Bachelor's programme will be available in English!

Graduates of the programme are qualified earth science engineers, who are capable of surveying and excavating the natural resources in the Earth's crust (ores, hydrocarbons, construction materials, special mineral materials, drinking water, thermal water and geothermal energy) and of producing and preparing raw materials using effective, economical and environmentally friendly technologies.



PETROLEUM ENGINEERING MSc

Our Petroleum Engineering program focuses on the drilling processes, reservoir conditions, production technologies, oil and gas treating and pipeline transportation. Alongside drilling technologies, students learn about reservoir behaviour and to optimize production for long-term efficiency. Combining petroleum and mechanical engineering knowledge, this program equips graduates with the expertise needed to meet the complex challenges of the energy industry. Students have the opportunity to choose between the Petroleum and Geothermal specializations and obtain double degree by the University of Miskolc & Montanuniversität Leoben.

HYDROGEOLOGY ENGINEERING MSc

The program develops experts in the sustainable management of surface and groundwater resources. Students learn to address relevant issues of climate change related water security challenges, groundwater exploration and exploitation, water protection, water quality, and environmental challenges, as well as engineering geology issues related to construction, mining, and infrastructure. With a strong foundation in research and development, graduates are equipped to design solutions for both environmental protection and engineering practice.



EARTH SCIENCE ENGINEERING MSc

This program prepares geologist and geophysicist engineers with focus on mineral resource prospecting and exploration and solid skills in mineralogy, exploration methods, economic geology, and environmental geology. Students gain the skills to design and lead exploration projects, evaluate geological resources, and apply advanced geophysical and geoinformatics methods. With both practical and theoretical knowledge, graduates are ready to contribute to research, innovation, and scientific development in the field. The programme is part of the TIMREX EIT-labelled international joint master's programme, offering joint degree applying innovative solutions for mineral resource exploration.

PETROLEUM GEOENGINEERING MSc

This MSc program trains highly qualified engineers for the exploration and field development of both conventional and unconventional hydrocarbon resources. Students acquire advanced geological, geophysical, and production knowledge, alongside hands-on training with industry-standard simulation software. A project-based learning approach fosters interdisciplinary collaboration. Graduates are well-prepared for careers at leading petroleum companies and service providers worldwide.

ENVIRONMENTAL ENGINEERING MSc

This program prepares engineers to identify and manage environmental risks, prevent and mitigate damage, and lead remediation projects. The profile of this environmental engineering programme has strong earth-science basis. Students gain expertise in waste management, contaminated site rehabilitation, and monitoring systems. Training also covers advanced hydrogeology and groundwater protection, enabling graduates to take on design and implementation roles. The program offers cutting-edge knowledge for addressing today's rapidly evolving environmental challenges, such as mitigation of climate change effects or resource efficiency with solutions to circular economy.

MSc