

MSc in

UNIVERSITY OF MISKOLC
Faculty of Earth and Environmental Sciences and Engineering

HYDROGEOLOGY ENGINEERING

PROGRAM



UNIVERSITY OF MISKOLC

FACULTY OF
EARTH AND ENVIRONMENTAL
SCIENCES AND ENGINEERING



- **Program title:** MSc in Hydrogeology Engineering
- **Degree awarded:** Hydrogeologist Engineer (MSc)
- **Number of semesters:** 4;
required number of credits to be completed: 120
- **Tuition fee (non-EU citizens):** 3500 € per semester
(reduced fee may be applied depending on academic
achievement from the third semester)
- **Application deadline:** 1st of June each year
(please check at mfk.uni-miskolc.hu)
- **Scholarship offers:**
Stipendium Hungaricum
([http://www.tka.hu/international-programmes/2966/
stipendium-hungaricum/](http://www.tka.hu/international-programmes/2966/stipendium-hungaricum/))
Visegrad Scholarship Program ([http://visegradfund.org/
scholarships/visegrad-scholarship-program/](http://visegradfund.org/scholarships/visegrad-scholarship-program/))

The aim of this MSc program is to train highly qualified engineers who are competent in dealing with geological and environmental issues concerning surface and underground waters, the protection of water, water quality and -resources, and water remediation tasks. The main focus of the four-semester-long education is placed on groundwater resources, which play more and more significant role in drinking water supply, mineral and medicinal water utilization and geothermal energy production. Flow and transport modeling, groundwater management and well hydraulics are also very strong parts of this internationally acknowledged MSc program. We anticipate that the career prospects for the students with an MSc in Hydrogeology will be good for the foreseeable future.

Graduated hydrogeologists will be capable of solving problems related to the construction of various engineering structures (water supply systems, buildings, tunnels, railways, underground transports, reservoirs, earthworks, roads, surface mines, underground mines, dewatering systems, etc.) and of carrying out and coordinating tasks related to research and development in their academic fields, as well as of continuing their studies in the doctoral program.

The utilization of geothermal energy is sure to play an important role in increasing demand for renewable energy resources. However, the longterm use of geothermal energy also requires the protection of groundwater supplies. Due to the increasing number of various types of surface and underground contamination, an increasingly important task facing our experts in the future is that of meeting the demand for water and groundwater, in both quantity and quality.

The Department of Hydrogeology and Engineering Geology was founded in 1987 and represents an important flagship of higher education and research in hydrogeology, water resources management, geological engineering, geotechnics and geo-environmental engineering. This department is the largest research centre in Hungary concerning groundwater resources.





UNIVERSITY OF MISKOLC Faculty of Earth and Environmental Sciences and Engineering

About the University of Miskolc

The university in the heart of the North-eastern industrial zone of Hungary has a nearly 280-yearold history. The legal predecessor of the current Faculty of Earth and Environmental Sciences and Engineering as well as Faculty of Materials and Metallurgical Engineering was the first HEI in the field of technology in the world, operated in Selmecbánya until 1919, then in Sopron until 1949. In 1949 the two faculties moved to Miskolc and were complemented by the newly established Faculty of Mechanical Engineering. Since that time new faculties have emerged (Law, Economics, Arts, Music, Health Care), making the university a real universitas which embraces a wide-range of sciences and specializations. The Faculty of Earth and Environmental Sciences and Engineering is the leading institution in education of earth and environmental sciences, mining, hydrocarbon industry and technological processing. Over 10,000 students and appr. 2,000 lecturers and staff live and work together at the University of Miskolc on a self-contained campus. The university also builds strong intellectual and cultural links with the city of Miskolc in order to play a crucial role in the blood circulation of the town and the region and to form an integral part of the social and economic framework of the city, the region and the country. The university has been an active participant, either as coordinator or partner, in European educational and research projects.

Campus

Settled in a modern campus environment the University of Miskolc offers a friendly atmosphere for studies. The 99 acres park makes the university the largest campus in the country. The Uni Hotel gives quality accommodation services, where the double room apartments are equipped with a kitchenette, an en suite bathroom with shower, toilet, refrigerator, telephone and internet access. On the Uni Hotel's ground floor you can find a supermarket, a stationery, an IT shop, solarium, sauna, infra sauna, massage, gym, hairdresser, snack-bar. The campus offers outdoor tennis, basket ball, football and running courts for students. The Miskolc University Campus is close to Miskolc-Tapolca, a famous resort area of Miskolc near the foots of the Bükk Mts. In the city architectural monuments, museums, shops are easy to reach from the campus by public transport.

Visa

For EU, USA and Canadian citizens a valid passport is sufficient to enter Hungary. As Hungary is a part of the Schengen treaty, for citizens from other, non-EU countries a Schengen visa is necessary to enter. Students should be registered at the Office of Immigration and Nationality.

ADMISSION REQUIREMENTS

- **Qualification:**
BSc in earth science, earth science engineering or environmental engineering degree, CGPA 60% or higher
- **Language proficiency:**
C1 (advanced) level is preferred, but minimum B2 on the CEFR scale or IELTS (academic version) 6.0 minimum score or identical language exam.
BSc degree holders, if the language of instruction was English are exempt from language test requirement.

FURTHER INFORMATION

University of Miskolc, Faculty of Earth and Environmental Sciences and Engineering – Institute of Water Resources and Environmental Management

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