

Master of Science in Hydrogeology and Geothermics

Cutting-edge science and high quality teaching

Internationally recognized and accredited by the Swiss Confederation, the Centre for Hydrogeology and Geothermics (CHYN) has around 50 members of staff and is equipped with state-of-the-art facilities for cutting-edge science and high quality teaching.

CHYN's research themes focus on subsurface water and energy resources, with special emphasis on fundamental and applied aspects of operational hydrogeology, hydrodynamics, hydrochemistry, geochemistry, geothermics, geostatistics and mathematical modelling.

• Specific strengths

Technical skills are an important part of the programme, whether relating to groundwater prospection and abstraction, or reservoir characterization and protection. There is particular emphasis on groundwater contamination processes and remediation issues, as well as the prospection and exploitation of geothermal resources at low, medium and high depths.





Degree awarded Master of Science in Hydrogeology and Geothermics

Credits 120 ECTS, 4 semesters

Teaching languages

English and French

Conditions for admission

The MSc is open to anyone holding a Bachelor's degree in a) Earth Sciences or Geology (from a university), b) Civil or Environmental Engineering (from an ETH), or any degree equivalent to a) or b).

Application deadline

April 30 for the Autumn Semester (mid-September) Start date: Autumn semester

Registration

Bureau des immatriculations Av. du 1^{er}-Mars 26 CH-2000 Neuchâtel +41 32 718 10 00 www.unine.ch/immatriculation

Contacts et information

Secretariat of the Faculty of Science Rue Emile-Argand 11 CH-2000 Neuchâtel +41 32 718 21 00 conseil.sciences@unine.ch

Secretariat of the CHYN Rue Emile-Argand 11 2000 Neuchâtel - Suisse +41 32 718 26 02 hydro.msc@unine.ch



• A unique training opportunity

Moving towards sustainable use of subsurface water and energy resources is a major challenge for our society, and for geoscientists in particular. This MSc degree, unique in Switzerland, offers a complete introduction to the current scientific approaches to address this challenge.

Designed by CHYN's dedicated staff, the programme delivers comprehensive hydrogeological training that covers the relevant physical, chemical, biological and thermal processes, as well as key field investigation techniques.

Intense teaching over three semesters provides students with core knowledge and specific skills in hydrogeology and geothermics. The fourth semester is devoted to an individual research project, to be carried out internally or in collaboration with external partners.

Careers

Hydrogeology and geothermics benefit from a favourable situation on the job market, both in Switzerland and internationally.

Graduates with a MSc in Hydrogeology/Geothermics are sought after by groundwater engineering and consulting companies, by major water and energy suppliers, as well as by public administrations. Hydrogeologists are also frequently recruited by development and humanitarian organisations. For highly motivated candidates, this training also opens the way to a PhD thesis.

Study program

Semesters 1 and 2

- Fundamentals of Geothermics, Hydrogeology and Hydrochemistry
- Fundamental skills
- Hydrogeological systems
- Methods I
- Resources management I
- Fieldwork camps and excursions

Semesters 3 and 4

- Methods II
- Resources management II
- Advanced methods
- Fieldwork camps and excursions
- Master thesis preparation and Master thesis research

For further information

ww.unine.ch/master www.unine.ch/chyn www.unine.ch/sciences

