



Mineral Resources Management

Objectives

This programme aims to **further develop the technical expertise** of engineering students and to provide **training in numerical geology and solid field experience**.

Who is the programme for?

The programme is for students who wish to develop their technical expertise in **mineral resources** and prepare for career opportunities in the fields of **exploration, production and environmental management of mining sites**.

Career opportunities

There are numerous opportunities due to the **naturalistic approach** of the programme, which combines both practical work and modelling, a widely **sought-after quality in mineral-related industries**. These skills offer students opportunities with both small and large companies, institutional organisations, or contract and consultancy work. In the field of exploration, geologists work to **identify and develop new prospects**. In the field of production, geologists are involved in the **technical and economic management of quarries or mines** but also help to **further knowledge of deposits** through the use of resource modelling.

Content

The programme provides theoretical and practical training as well as field training, project management and work experience.

Theoretical and practical training

- > Mineral resources industry (globalisation, economy)
- > Basic economic geology (mineral deposit classification and ore forming processes)
- > Mineral exploration and mining geology
- > Techniques and methods for studying mineral deposits (fluid inclusions, XRD, SEM, wall rock alteration, geochemistry, ore microscopy, etc.)
- > Sustainable development and industrial environment
- > Geophysical and geochemical exploration
- > Resource modelling and implications for mine planning
- > Geostatistics, interpolation and estimation methods.

Field school:

- > Exploration techniques
- > Geological surveys in complex hydrothermalised regions
- > Geometric, kinematic and dynamic understanding of mineral structures
- > Geophysical and/or geochemical exploration.

Collective project:

- > Problem resolution: integration and interpretation of georeferenced data from multiple (geophysical, geochemical, geological) sources collected during the field school.

Six-month company placement

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