

# MASTER OF SCIENCE IN GEOLOGY

PROGRAMME JOINTLY OFFERED BY GHEENT UNIVERSITY, CATHOLIC UNIVERSITY OF LEUVEN, KU LEUVEN

MAJORS: GEOLOGY OF BASINS - GEODYNAMICS AND GEORESOURCES - SURFACE PROCESSES AND PALEOENVIRONMENTS - SOIL AND GROUNDWATER

120 ECTS CREDITS - LANGUAGE: ENGLISH

## WHAT

The Geology programme - organised jointly by Ghent University and KU Leuven - offers an in-depth training in general geology and a specialised training in selected disciplines of geology. The emphasis is on acquiring general academic skills such as research and exploration, reporting, co-operation with fellow students and researchers. Our students receive the necessary training to analyse and solve new, broader and more complex geological problems. They acquire the scientific-academic attitude to solve these problems by selecting and applying advanced methods (qualitative and quantitative field analysis, direct and indirect observation techniques, physical and chemical analytical techniques, modelling of geological processes, ...).

We expect our students to have a hands-on knowledge of the techniques and basic principles, and to be able to appraise the potential as well as the limitations of these techniques. In a rational and scientific manner, our students are able to process and to report their research results, to publish them in reports and in a Master's dissertation (monograph), and to present and defend these results orally in a structured manner, aided by modern communication techniques.

A Geology graduate possesses the social attitudes and skills to work in an interdisciplinary team and aims to reach the best possible coherent solution for a specific problem.

## STRUCTURE

The master's programme offers the possibility to specialise in one of the four majors offered:

- Basins and Orogens (60 ECTS credits)
- Groundwater and Mineral Resources (60 ECTS credits)
- Geodynamics and Georesources (54 ECTS credits)
- Surface Processes and Paleo-environments (55 ECTS credits)

Depending on your choice of major, you take up an additional 30 to 36 ECTS-credits worth of elective course units. The second year of the Master's curriculum contains a 30 ECTS credits-worth research project (Master's dissertation). The Master's dissertation is an original piece of research. Its aim is to develop and strengthen the students' research skills. Students select a topic and receive guidance from a supervisor. The Master's dissertation consists of a literature review, practical research, and an

original analysis of the chosen topic.

In addition to the (domain) Master's programme described above, you can also choose a Master's Programme in Teaching (in Dutch: *Educatieve Master*). The *Educatieve Master*, however, is a Dutch-taught programme. Find out more at [www.ugent.be/educatievemaster](http://www.ugent.be/educatievemaster) (in Dutch).

## LABOUR MARKET

Our programme's strong multidisciplinary character opens career perspectives in innovative research, in dynamic industrial sectors, at government agencies, NGOs, ... . In addition, students of the Geology programme gradually acquire the huge advantage of becoming proficient in English on a professional level. The world will be your oyster!

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### 1 Rechtstreeks:

- Bachelor in de geologie

### 2 Na het met succes voltooien van een

#### voorbereidingsprogramma:

##### MIN 3 SP - MAX 100 SP

- Bachelor in de bio-ingenieurswetenschappen, afstudeerrichting: land- en bosbeheer
- Bachelor in de bio-ingenieurswetenschappen, afstudeerrichting: landbouwkunde
- Bachelor in de bio-ingenieurswetenschappen, afstudeerrichting: milieutechnologie
- Bachelor in de biologie
- Bachelor in de chemie
- Bachelor in de fysica
- Bachelor in de fysica en de sterrenkunde
- Bachelor in de geografie
- Bachelor in de geografie en de geomatica
- Bachelor in de ingenieurswetenschappen, afstudeerrichting: geotechniek en mijnbouwkunde

## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

The course is open to students with at least a bachelor's degree in the field of geology with minimum 180 credits.

Information on admission requirements and the administrative procedure for admission on the basis of a diploma obtained abroad, can be found on the following page: [www.ugent.be/prospect/en/administration/enrolment-or-registration](http://www.ugent.be/prospect/en/administration/enrolment-or-registration).

## LANGUAGE REQUIREMENTS

Language requirements Dutch: no language requirements

Language requirements for this study programme differ from the required standard level for English taught study programmes as specified in the Ghent University Education and Examination Code:  
**English:** TOEFL 90 (internet-based) - IELTS: 7 -

Certificate awarded by Ghent University Language Centre confirming proficiency in English, CEF-level B2 - Certificate Practical English 5, Upper-Intermediate Academic English or Preparing for an English test, issued by Ghent University Language Centre - Cambridge ESOL: First certificate in English (FCE)

Remark: Test participants should specify the "institution code" 2643 for UGent and 0749 for KU Leuven, so that the score can be sent directly to the university.

Prospective students will be **exempted from** the applicable language requirements, if they have already passed an English-language study programme, either in secondary education or at another institution for higher education (i.e. the student needs to have obtained 60 credits).

## PRACTICAL INFORMATION

### Study programme

[studiekiezer.ugent.be/master-of-science-in-geology-en/programma](http://studiekiezer.ugent.be/master-of-science-in-geology-en/programma)

### Information sessions

#### Graduation Fair

[afstudeerbeurs.gent/en/students/further-studies](http://afstudeerbeurs.gent/en/students/further-studies)

### Enrolling institution

Ghent University, KU Leuven

Students choosing the major Basins and Orogens or Groundwater and Mineral Resources enrol at Ghent University; students choosing the major Geodynamics and Georesources or Surface Processes and Paleoenvironments enrol at KU Leuven.

### Application Deadline (for International degree students)

For students who **need a visa**: before 1st of April

For students who **do not need a visa**: before 1st of June

Read more

### Tuition fee

More information is to be found on: [www.ugent.be/tuitionfee](http://www.ugent.be/tuitionfee)

### Learning path counsellor

T 09 264 50 53

[traject.we@UGent.be](mailto:traject.we@UGent.be)