

# MASTER OF SCIENCE IN PLANT BIOTECHNOLOGY

60 ECTS CREDITS - LANGUAGE: ENGLISH

## WHAT

The global demand for plant-derived products such as feed and food is increasing dramatically, as illustrated by for instance the increasing prices of most commodity crops. How can we deal with these exponentially growing demands for food, feed and bio-energy? How can we cope with the fact that we will have to produce more food on less arable land, under environmentally more challenging conditions? These are just a few questions that modern plant biotechnology has to solve. Our study programme is embedded in an environment of state-of-the-art science and industrial entrepreneurship where translational research enables knowledge transfer from plant models to crops. Studying at Ghent University means studying at the largest agro-biotech campus in Europe.

## STRUCTURE

The curriculum covers all aspects of modern plant biotechnology related to state-of-the-art technologies, plant growth and development, abiotic stress and biotic interactions, intellectual property and safety regulations. Moreover, by means of elective courses and a substantial Master's dissertation, students can specialise further in their field of interest.

## LABOUR MARKET

Ghent University in collaboration with the VIB Centre for Plant Systems Biology has a long-standing tradition of converting basic science into successful industrial entities: BASF Agricultural Solutions Belgium NV (previously Plant Genetic Systems and Bayer Crop Science), CropDesign, Syngenta (previously Devgen) and more recently Biotalys, Apeha.Bio and Protealis. Today, these companies together with our plant research centre form the largest European Plant Biotechnology campus. This experience is integrated in our education and will prepare you for various positions in research labs and agro-biotech companies.

# MASTER OF SCIENCE IN PLANT BIOTECHNOLOGY

60 ECTS CREDITS - LANGUAGE: ENGLISH

## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### 1 Rechtstreeks:

- a opleidingen nieuwe structuur:
- Master in de bio-ingenieurswetenschappen: cel- en genbiotechnologie
  - Master in de biochemie en de biotechnologie
  - Master of Biochemistry and Biotechnology
- b opleidingen oude structuur:
- Bio-ingenieur in de cel- en genbiotechnologie
  - Licentiaat in de biochemie
  - Licentiaat in de biotechnologie

### 2 Na onderzoek van de bekwaamheid van de student om de opleiding te volgen:

- a opleidingen nieuwe structuur:
- Een diploma van een masteropleiding aansluitend op een bacheloropleiding binnen één van de volgende studiegebieden (of een combinatie ervan):
    - Biomedische Wetenschappen
    - Industriële Wetenschappen en Technologie
    - Toegepaste Biologische Wetenschappen
    - Wetenschappen
  - Een diploma van een masteropleiding die volgt op een andere masteropleiding binnen één van de volgende studiegebieden (of een combinatie ervan):
    - Biomedische Wetenschappen
    - Industriële Wetenschappen en Technologie
    - Toegepaste Biologische Wetenschappen
    - Wetenschappen
  - Master of Bioinformatics, afstudeerrichting: Bioscience Engineering
- b opleidingen oude structuur:
- Een diploma van de tweede cyclus van het hogeschoolonderwijs van twee cycli binnen het studiegebied Industriële Wetenschappen en Technologie
  - Een diploma van een academische opleiding van de tweede cyclus binnen één van de volgende studiegebieden (of een combinatie ervan):
    - Toegepaste Biologische Wetenschappen
    - Wetenschappen

## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

The general admission requirement is that the student must possess a master's degree or an international degree considered equivalent. A master's degree in Life Sciences and a successful knowledge and motivation interview is required - a test is mandatory. An applicant wishing to gain admission for a master on the basis of an international

diploma must apply through a specific application procedure. Important additional information before starting your application procedure: <https://masterplantbiotechnology.ugent.be/>.

## LANGUAGE REQUIREMENTS

Language requirements Dutch: no language requirements  
English: CEFR level B2

The language requirements for this study programme can be found on: [www.ugent.be/languagerequirements](http://www.ugent.be/languagerequirements)

## PRACTICAL INFORMATION

### Study programme

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

### Information sessions

#### Graduation Fair

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

### Enrolling institution

Information on enrolment at Ghent University.

### 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)

### Contact

Faculty of Sciences  
Department of Plant Systems Biology  
Technologiepark 71  
B-9052 Gent  
Dr. Annick Bleys  
[anble@psb.vib-ugent.be](mailto:anble@psb.vib-ugent.be)

# MASTER OF SCIENCE IN PLANT BIOTECHNOLOGY

60 ECTS CREDITS - LANGUAGE: ENGLISH

<https://masterplantbiotechnology.ugent.be>