

# MASTER OF SCIENCE IN PLANT BIOTECHNOLOGY (ADVANCED MASTER)

60 ECTS CREDITS – LANGUAGE: ENGLISH – DEGREE: MASTER OF SCIENCE

## COURSE CONTENT

The global demand for plant-derived products such as feed and food is increasing dramatically, as illustrated by the recent doubling of the price 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 to be solved by the modern plant biotechnology.

The training in plant biotechnology is embedded in an environment of top science and industrial entrepreneurship where translational research enables the transfer of knowledge from plant models to crops. If you choose to study at Ghent University, you will be studying at the largest Agro-Biotech Campus in Europe.

## COURSE 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 regulation. Moreover, through elective courses and a substantial master's dissertation, students can specialise in their field of interest.

## CAREER PERSPECTIVES

Ghent University in collaboration with the VIB Center for Plant Systems Biology has a long-standing tradition of converting basic science into successful industrial entities: Plant Genetic Systems (now BASF Agricultural Solutions Belgium NV, previously Bayer Crop Science), CropDesign (now a BASF Plant Science company), Devgen (now Syngenta) and Apea.Bio. Today, these companies together with our plant research center 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 agrobiotech companies.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### Rechtstreeks:

- Ma biochemie en biotechnologie/Ma biochemistry and biotechnology
- Ma bio-ingenieurswetenschappen: cel- en genbiotechnologie *opleiding(en) oude structuur:*
  - licentiaat biochemie / licentiaat biotechnologie
  - bio-ingenieur in de cel- en genbiotechnologie

### Na geschiktheidsonderzoek:

- Ma Bioinformatics: Bioscience Engineering
  - masterdiploma met specificatie 'of Science' binnen één van de volgende studiegebieden (of combinaties ervan):
    - Wetenschappen
    - Toegepaste biologische wetenschappen
    - Industriële wetenschappen en technologie
    - Biomedische wetenschappen
- opleiding(en) oude structuur:*
- een corresponderend academisch tweedecyclusdiploma

### TAAL

Je voldoet aan de taalvoorwaarden op basis van je Vlaams diploma.

## PRAKTISCHE INFORMATIE

### Studieprogramma:

<https://studiegids.ugent.be>

> faculteiten > opleidingstypes > ga naar de opleiding van je keuze

### Infomomenten

#### Masterbeurs

[www.ugent.be/masterbeurs](http://www.ugent.be/masterbeurs)

### Studiegeld

Meer informatie vind je op:

[www.ugent.be/studiegeld](http://www.ugent.be/studiegeld)

### Contact

Ghent University – Faculty of Sciences

Department of Plant Systems Biology

Technologiepark 71

B-9052 Gent – Belgium

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[www.psb.ugent.be/ManaMa](http://www.psb.ugent.be/ManaMa)

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## 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.

### LANGUAGE

More information regarding the required knowledge of English:  
[www.ugent.be/specificlanguag](http://www.ugent.be/specificlanguag)

## PRACTICAL INFORMATION

### Study programme

[www.ugent.be/coursecatalogue](http://www.ugent.be/coursecatalogue)

> by Faculty > Programme types > select your programme

### Application deadline for international degree students

- for students who need a visa: 1st of March
- for students who do not need a visa: 1st of June

[www.ugent.be/deadline](http://www.ugent.be/deadline)

### Enrolling institution

Ghent University

### Tuition fee

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

### Contact

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Department of Plant Systems Biology  
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B-9052 Gent – Belgium  
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[www.psb.ugent.be/ManaMa](http://www.psb.ugent.be/ManaMa)

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