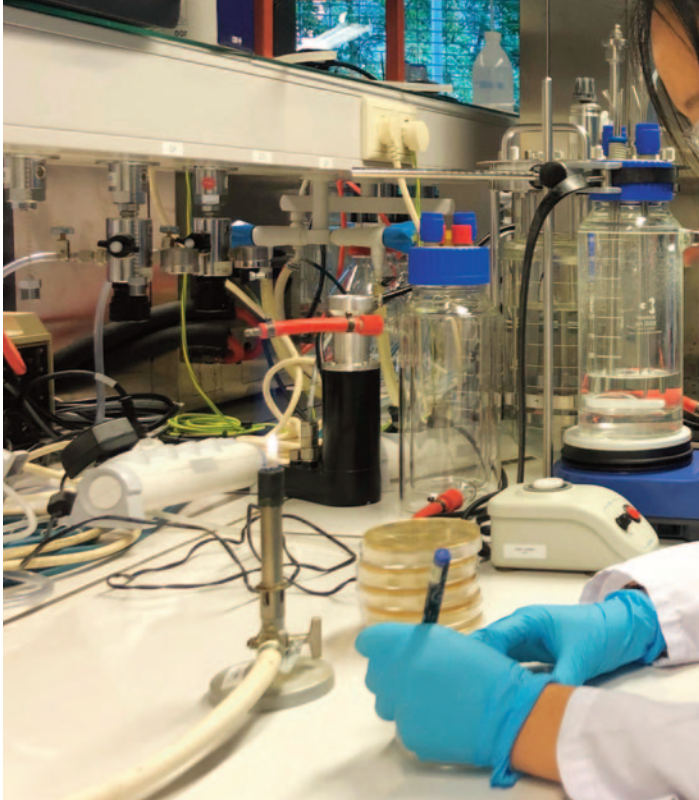


# EUROPEAN MASTER OF SCIENCE IN SUSTAINABLE FOOD SYSTEMS ENGINEERING, TECHNOLOGY & BUSINESS (BIFTEC-FOOD4S)

KU LEUVEN • UCP • UANHALT • UCD



**The European Master of Science in Sustainable Food Systems Engineering, Technology and Business (BiFTec-FOOD4S) (“food force”) promotes a transversal and multidisciplinary approach to a broad range of topics related to the 4S pillars: Science (Food Science & Engineering Technology), Sustainability (Sustainable Food Product & Food Process Design), Safety (Food Safety & Quality) and Simulation (Computational Food Science & Technology).**

**FOUR PARTNER UNIVERSITIES, FOUR LOCATIONS:**  
KU Leuven, Ghent Technology Campus, Belgium;  
Anhalt University of Applied Sciences, Germany;  
Universidade Católica Portuguesa, Porto, Portugal;  
University College Dublin, Ireland

## DURATION

2 years (full-time), 120 ECTS

## APPLICATION

- Online application: [www.kuleuven.be/application](http://www.kuleuven.be/application)
- Students with a Flemish degree: [www.kuleuven.be/inschrijven](http://www.kuleuven.be/inschrijven)

## APPLICATION DEADLINE

- 1 March** (for all students applying for a scholarship)
- 1 March** (for non-EEA citizens on self-paying basis)
- 1 June** (for EEA citizens on self-paying basis)

## SCHOLARSHIPS

The BiFTec-FOOD4S consortium awards EU-funded scholarships to the best student candidates applying under annual selection.

## ACADEMIC CALENDAR

- 1st semester: mid-September > end of January, 5 modules at KU Leuven
  - 2nd semester: end of January > end of June, 6 modules at UCP and HSA
  - 3rd semester: October > February, 4 modules at UCD
  - 4th semester: February > end of June, Master's thesis
- [www.food4s.eu/timetable](http://www.food4s.eu/timetable)

## TUITION FEE

[www.kuleuven.be/tuitionfees](http://www.kuleuven.be/tuitionfees)

## MORE INFORMATION

[www.food4s.eu](http://www.food4s.eu)

COURSE	ORGANISING INSTITUTION	ECTS
<b>STAGE 1</b>		
<b>COMPULSORY COURSES</b>		
Food Science Fundamentals	KU Leuven*	6
Food Safety and Quality Fundamentals	KU Leuven*	8
Sustainable Food Product and Food Process Design Fundamentals	KU Leuven*	4
Computational Food Science, Technology and Engineering Fundamentals	KU Leuven*	6
Environmental Practices and Sustainability	UCP	5
Business and Economics in Food Industry	HSA	5
Sustainable Production of Plant based Food Products: Cereals	HSA	5
Sustainable Production of Food from Animal Origin: Meat and Dairy	HSA	5
<b>OPTIONAL COURSES (YOU SELECT THREE MODULES, ONE FROM EACH PAIR)</b>		
Computational Food Science, Technology and Engineering Supplements	KU Leuven*	6
Sustainable Malting and Brewing	KU Leuven*	6
Sustainable Production of Fats and Oils	UCP	6
Sustainable Wine Production	UCP	6
Materials, Systems and Technology for Food Packaging	UCP	6
Sustainable Production of Plant based Products: Fruits and Vegetables	UCP	6
<b>STAGE 2</b>		
<b>COMPULSORY COURSES</b>		
Predictive Modelling and Risk Assessment	UCD	5
Hyperspectral Imaging and Data Analysis	UCD	5
Waste to Energy Processes and Technology	UCD	10
Food Processing and Technology	UCD	10
Master's Thesis	Consortium partners	30
<b>ELECTIVE (ON TOP OF 120 ECTS)</b>		
Professional Competence Module	Consortium partners	12
* All KU Leuven courses are taught at Ghent Technology Campus		
For detailed descriptions of the courses and for the course timetable, please consult: <a href="http://www.food4s.eu">www.food4s.eu</a>		

## PROGRAMME

You are required to take twelve compulsory courses and three optional courses, followed by a work on a scientific project that will culminate in a master's thesis. Additional credits may be awarded for carrying out a professional competence module of three months during summer break between year 1 and 2.

## FOUR EUROPEAN PARTNER UNIVERSITIES – JOINT DEGREE

BiFTec-FOOD4S is offered within the framework of an Erasmus Mundus Joint Master Degree (EMJMD), a prestigious, integrated and international study programme. This two-year programme is jointly organised by four European partner institutions: KU Leuven, Catholic University of Portugal (UCP), Anhalt University of Applied Sciences (HSA), and University College Dublin (UCD). Successful graduates are awarded a joint degree.

## ADMISSION REQUIREMENTS

To be eligible for BiFTec-FOOD4S, you must have obtained a bachelor's degree in Food Science and Technology, Chemistry, Biological Sciences, (Chemical or Bio-)Engineering or a related field from a recognised academic institution. You must have a good command of both spoken and written English. Internationally recognised English language certificate is required.

Programme admission: [www.food4s.eu](http://www.food4s.eu)

General admission: [www.kuleuven.be/admissions](http://www.kuleuven.be/admissions)

## CAREER PERSPECTIVES

The BiFTec-FOOD4S programme prepares competent employees for sectors including sustainable food production, processing and agribusiness, in industry, academia, and government.

## CONTACT

[www.food4s.eu](http://www.food4s.eu)

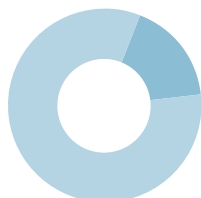
[office@food4s.eu](mailto:office@food4s.eu)

## ABOUT KU LEUVEN



**Truly international**

60,057 students



of which **12,421** international students, over 140 countries



**The highest ranked Belgian University**

**1** In the Reuters ranking of most innovative universities in Europe

**45** Times Higher Education World University Rankings

**84** QS World University Rankings

**48** BACHELOR'S PROGRAMMES (5 IN ENGLISH)

**137** MASTER'S PROGRAMMES (69 IN ENGLISH)

**42** ADVANCED MASTER'S PROGRAMMES (23 IN ENGLISH)