



Faculty of Bioscience Engineering

Faculty of Bioscience Engineering



Bioscience Engineering

Big challenges for global society

- » Food production
- » Health
- » Environmental ecology
- » Energy
- » Water

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Bioscience Engineering

2,333 students

- » Bachelors: 804
- » Masters: 1009
- » Doctoral students: 520
- » International students: 667

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Bioscience Engineering

2,333 students

- » Professors: 67
- » Researchers: 448
- » Admin. & technical staff: 148
- » *3.5 students / staff member*

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Buildings



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Supporting Facilities



Greenhouse Facility

» moderate as well as (sub)tropical environments

Centre of Fruit Culture

Experimental Farm for Animal Breeding

1300 pigs
3000 chickens
500 sheep
± 90 hectares



Educational Programmes

Faculty of Bioscience Engineering

Bachelor of Science
Dutch - 3 years



Master of Science
English/Dutch - 2 years

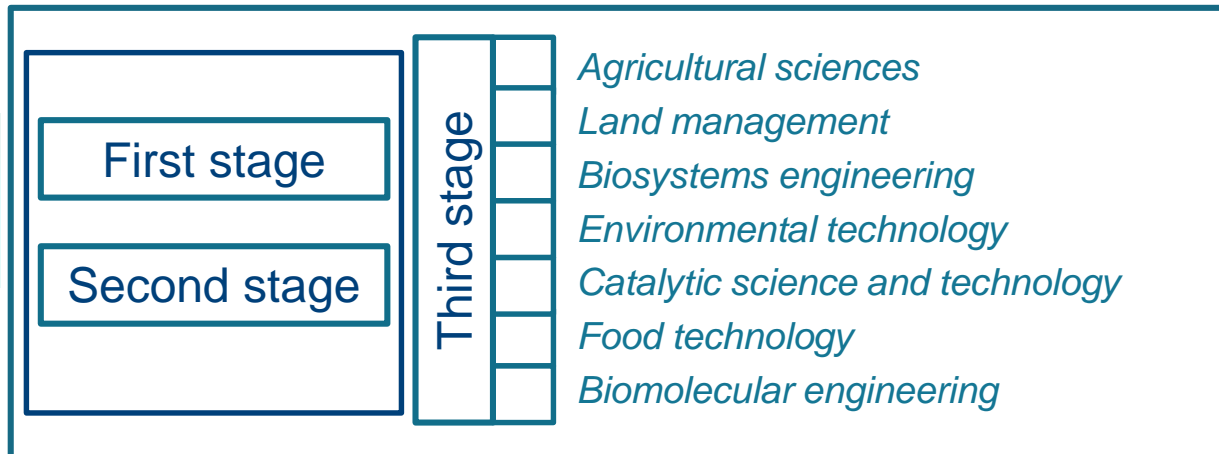
PhD - Arenberg Doctoral School

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Bachelor Programme

- » Only taught in Dutch
- » Seven specializations
- » One degree
- » Gives direct access to the MSc programmes



» BSc degree

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English Master Programmes

MSc in Agro- and Ecosystems Engineering
MSc in Bioinformatics
MSc in Food Technology
MSc in Molecular Biology
MSc in Human Health Engineering
MSc in Nanoscience, Nanotechnology & Nano-engineering
MSc in Water Resources Engineering

Dutch Master Programmes

MSc in Agricultural Sciences
MSc in Land management
MSc in Biosystems engineering
MSc in Environmental technology
MSc in Catalytic Science and Technology
MSc in Food Science and Technology
MSc in Biomolecular Engineering

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Minor Programmes

Industrial Microbiology

Leadership in a Globalizing Context

Applications for Human Health Engineering

Tropical Natural Resources Management

Internship



Research

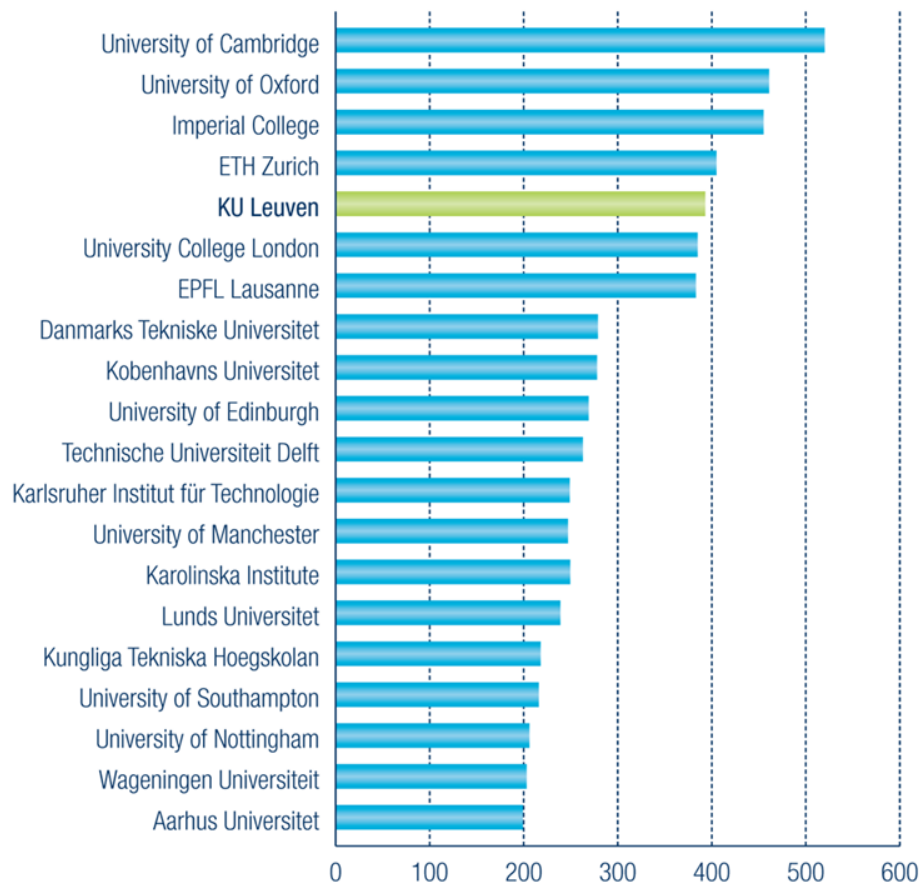


Research excellence

KU Leuven: a leading European research university

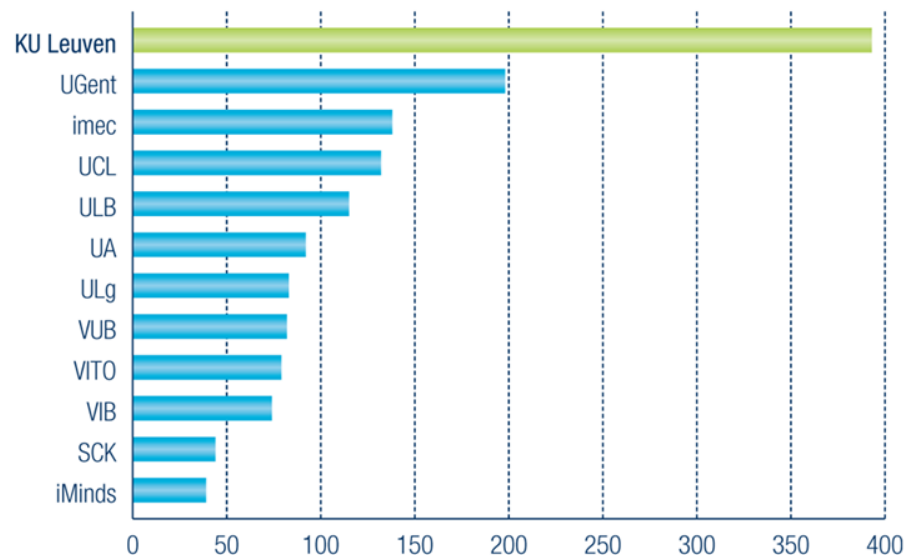
5th place in the HES ranking #FP7 contracts

Figures: February 2013 - Source: Department of Economy, Science and Innovation (Flemish Government)



Number of FP7 contracts

Figures: February 2013 - Source: Departement of Economy, Science and Innovation (Flemish Government)

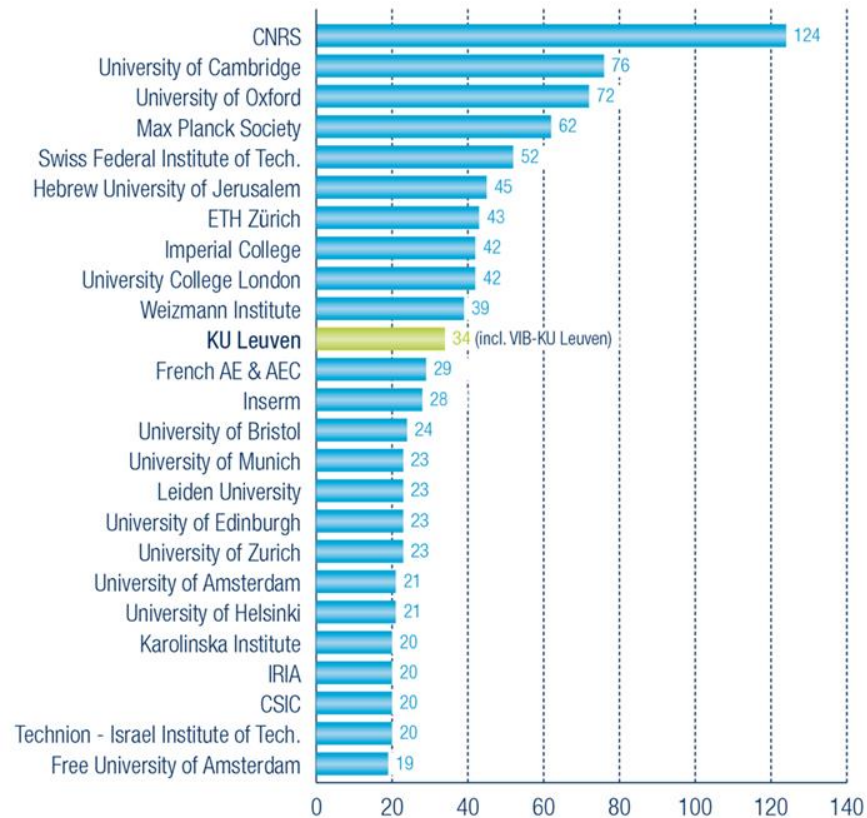


KU LEUVEN

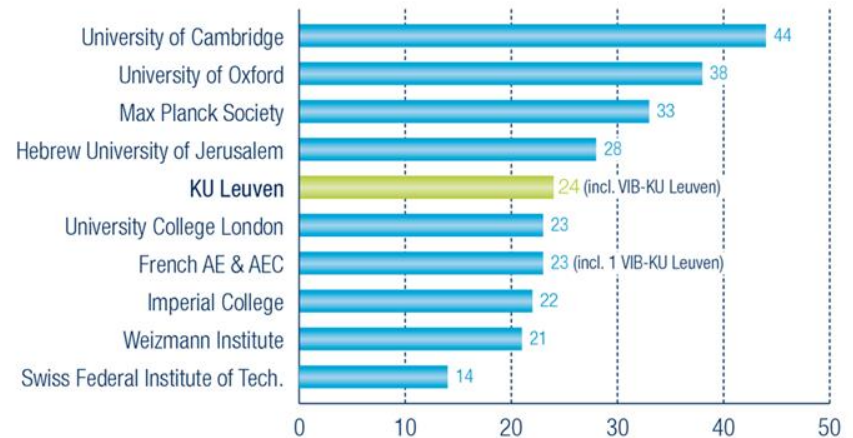
Research excellence

KU Leuven: a leading European research university

Total number of ERC grants (starting & advanced 2007-2012)



ERC starting grants (2007-2012)



CNRS = National Centre for Scientific Research

IRIA = Nat Inst for Res in Computer Science and Automatic Control

CSIC = Spanish National Research Council

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Research based Education

- » Department of Earth and Environmental Sciences
- » Department of Microbial and Molecular Systems (M2S)
- » Department of Biosystems (BIOSYS)

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Bioscience Engineering

Division Soil and Water Management

Division Forest, Nature and Landscape
Research

Division of Bioeconomics

Division of Geology

Division of Geography

Research based Education

» Department of Earth and
Environmental Sciences



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Bioscience Engineering

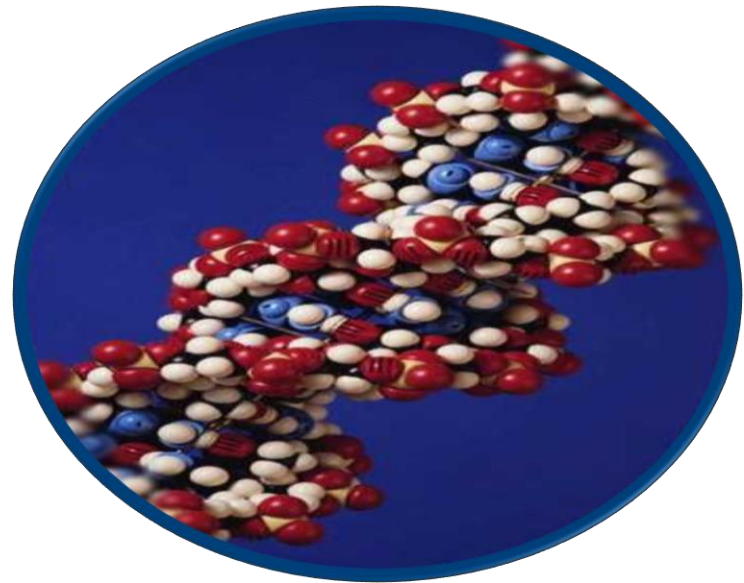
Centre for Surface Chemistry and Catalysis

Centre for Food and Microbial Technology

Centre of Microbial and Plant Genetics

Research based Education

» Department of Microbial and
Molecular Systems (M2S)



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Bioscience Engineering

Division of Mechatronics, Biostatistics and Sensors
(MeBioS)

Division of Crop Biotechnics

Division of Animal and Human Health Engineering

Research based Education

» Department of Biosystems (BIOSYS)



Networks



International networks

Prominent position in European higher academic education

One of the leading research institutions in Europe



21 European
research
universities

Established in 2002



Approximately 850
institutions
in 47 countries

Established in 2001



40 European
multi-disciplinary
universities

Established in 1985

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2015
International
Year of Soils



European network of
international relations officers

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WAGENINGEN UR
For quality of life



Swedish University of
Agricultural Sciences



INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT
PARIS INSTITUTE OF TECHNOLOGY FOR LIFE, FOOD AND ENVIRONMENTAL SCIENCES

UNIVERSITEIT
STELLENBOSCH
UNIVERSITY



UNICAMP



KU LEUVEN

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Possibilities for collaboration

» Student mobility

MSc: exchanges or complementary packages

Thesis copromotion

» Joint Research

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Thank you for your attention

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