



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

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Bachelor of Science
Dutch - 3 years



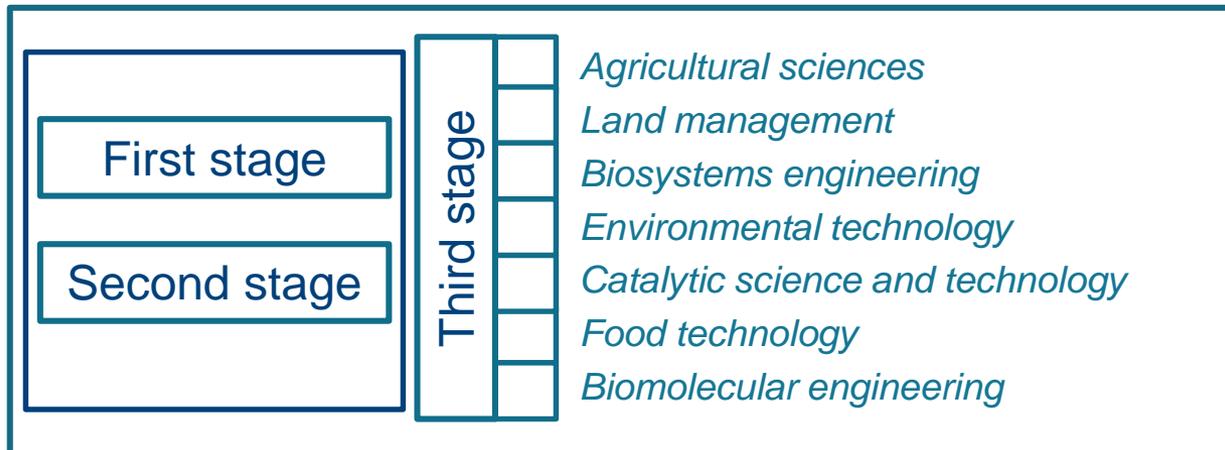
Master of Science
English/Dutch - 2 years

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

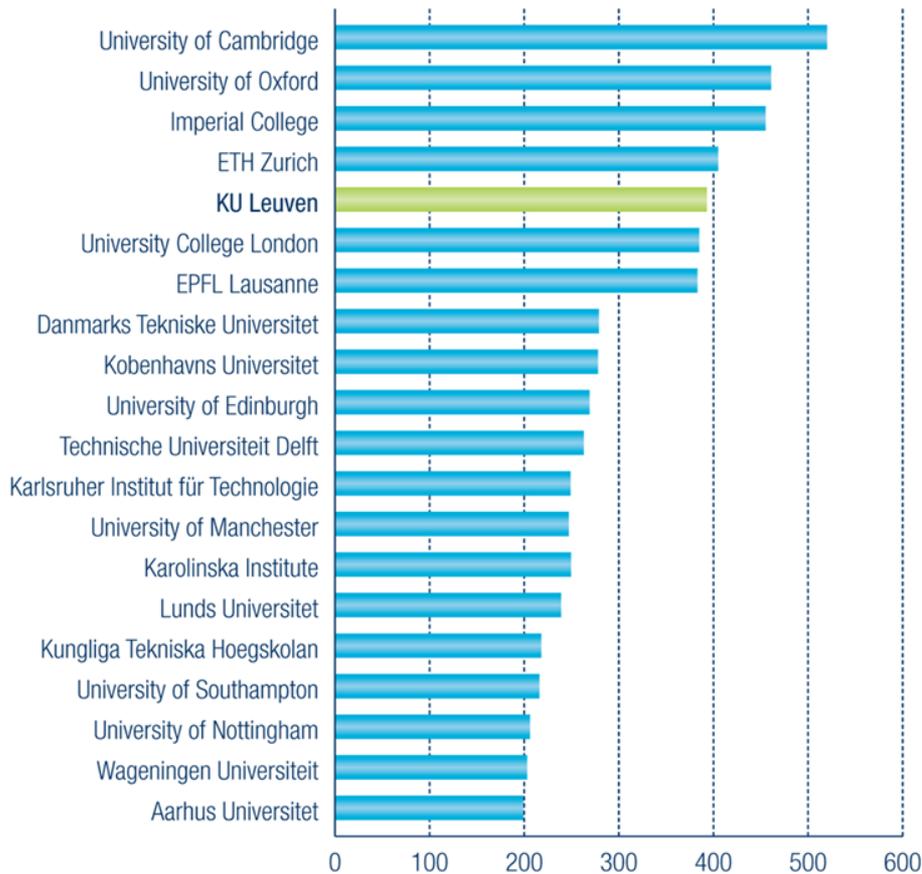


Research excellence

KU Leuven: a leading European research university

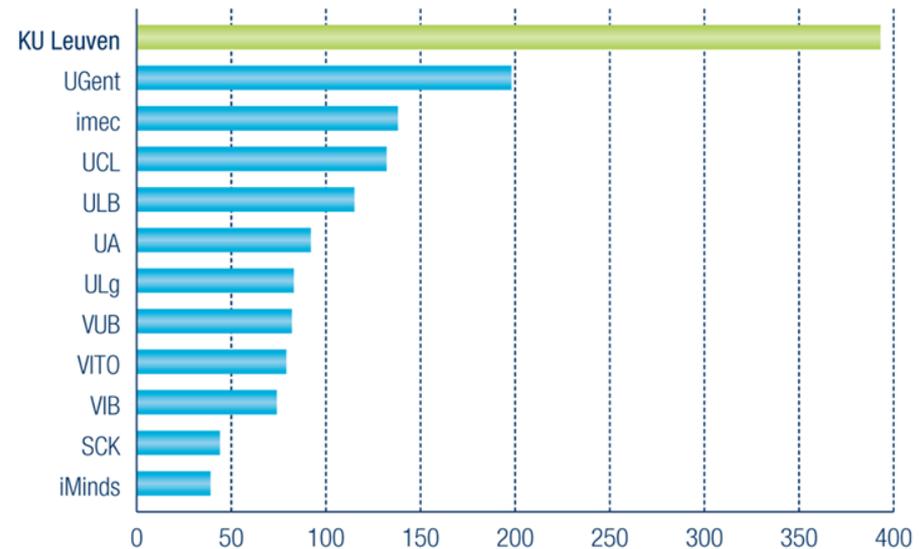
5th place in the HES ranking #FP7 contracts

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



Number of FP7 contracts

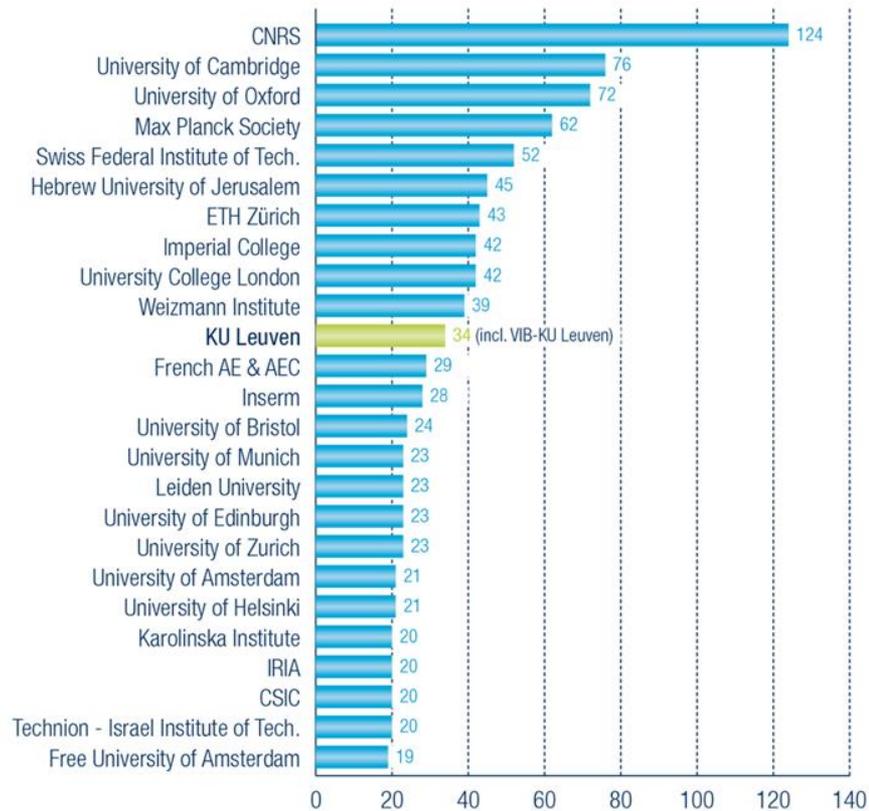
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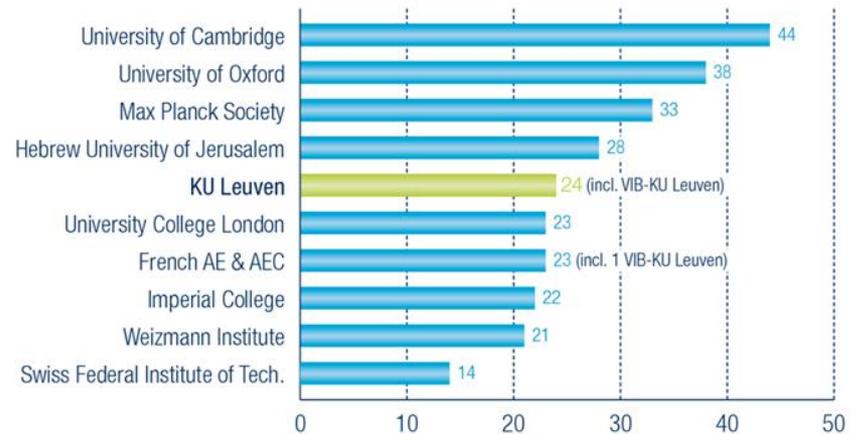
Research excellence

KU Leuven: a leading European research university

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



ERC starting grants (2007-2012)

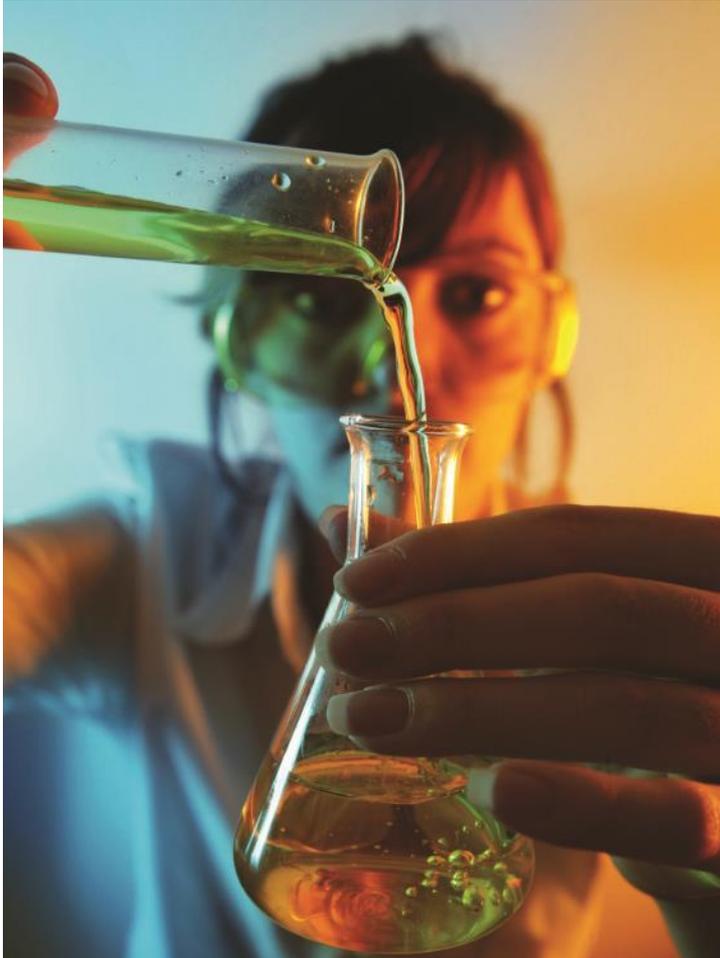


CNRS = National Centre for Scientific Research

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

CSIC = Spanish National Research Council

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Bioscience Engineering

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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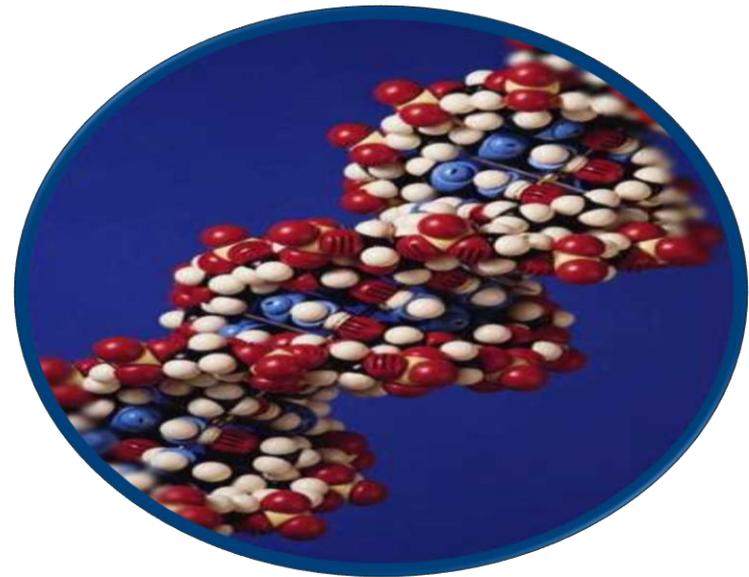
Centre for Surface Chemistry and Catalysis

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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Division of Mechatronics, Biostatistics and Sensors
(MeBioS)

Division of Crop Biotechnics

Division of Animal and Human Health Engineering



Bioscience 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



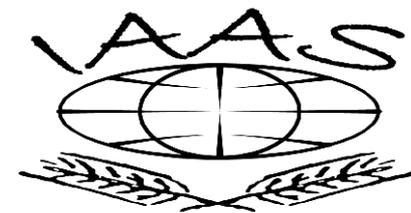
40 European
multi-disciplinary
universities

Established in 1985

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2015
International
Year of Soils



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WAGENINGEN UR
For quality of life



Swedish University of
Agricultural 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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