

KU LEUVEN

FACULTY OF ENGINEERING TECHNOLOGY

Bruges Campus | De Nayer (Sint-Katelijne-Waver) Campus | Diepenbeek Campus
Geel Campus | Group T Leuven Campus | Ghent and Aalst Technology Campuses

Faculty of Engineering Technology (FET)

HEIn4.⏻



Co-funded by the
Erasmus+ Programme
of the European Union

KU Leuven in Flanders



Faculty of Engineering Technology Bruges Campus | De Nayer (Sint-Katelijne-Waver) Campus | Diepenbeek Campus | Geel Campus | Group T Leuven Campus | Ghent and Aalst Technology Campuses

KU Leuven in numbers



STAFF

12,334

(KU LEUVEN)

9,370

(UNIVERSITY
HOSPITALS)



RESEARCHERS

7,430



STUDENTS

57,535

**INTERNATIONAL
STUDENTS**

10,677



ALUMNI



287 636



SPIN-OFFs

128

Science, Engineering & Technology

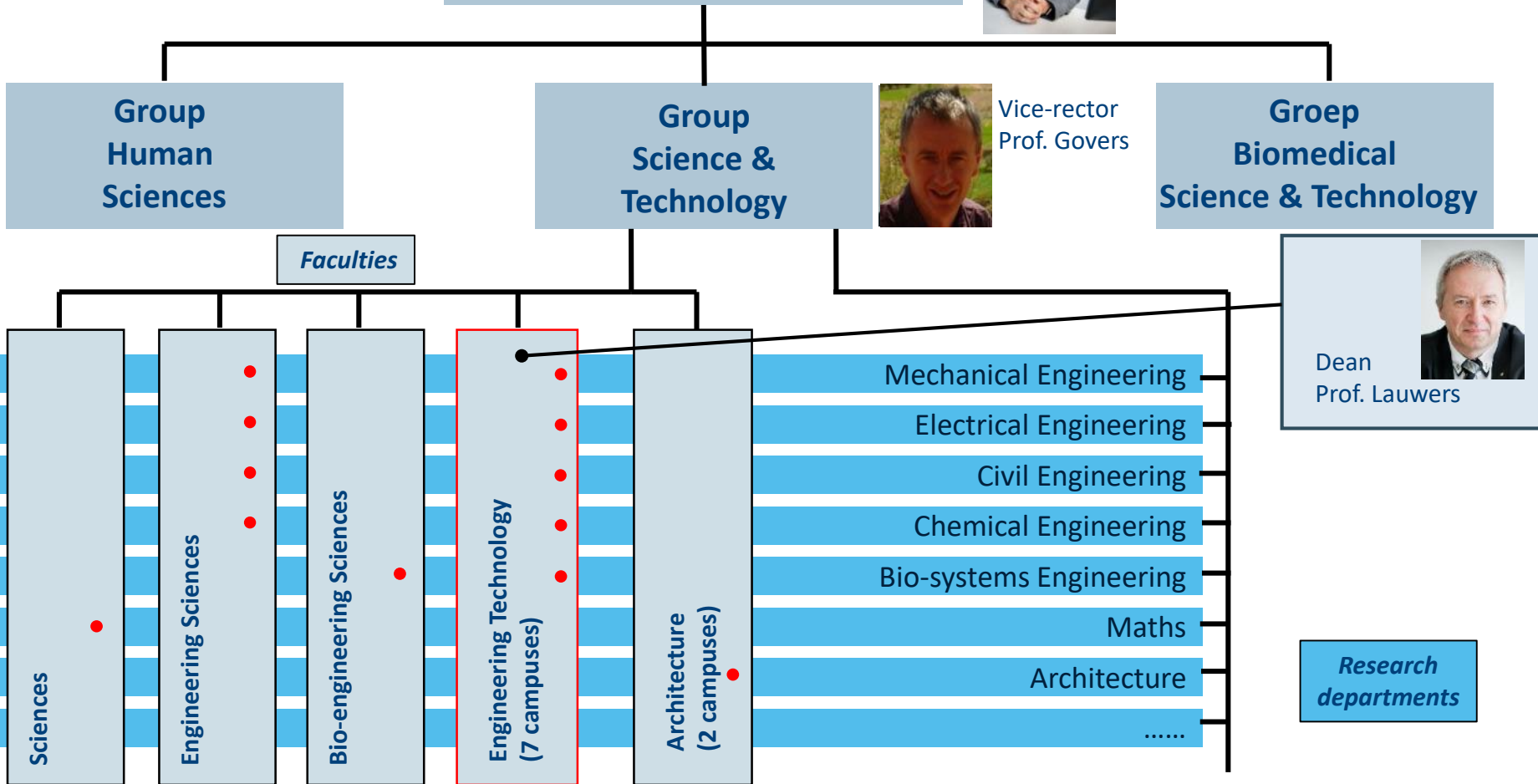
Faculties		Research departments
	Science	<ul style="list-style-type: none">» Architecture, Urbanism and Planning» Biology» Biosystems» Chemical Engineering» Chemistry» Civil Engineering» Computer Science» Earth and Environmental Sciences» Electrical Engineering (ESAT)» Mathematics» Mechanical Engineering» Metallurgy and Materials Engineering» Microbial and Molecular Systems» Physics and Astronomy
	Engineering	
	Bioscience Engineering	
	Engineering Technology	
	Architecture	
Arenberg Doctoral School		

KU Leuven – structure

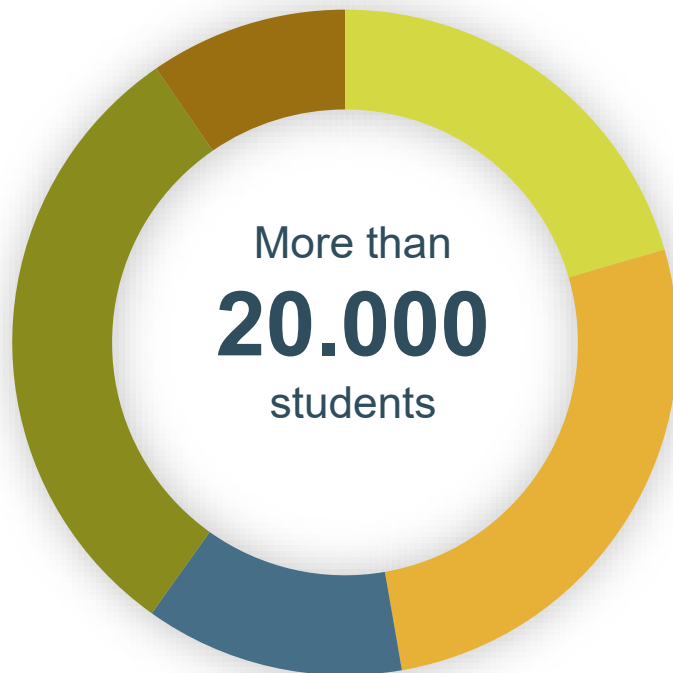
KU Leuven



Rector
Prof. Luc Sels



Students of the SET Group



- Science (20.5%)
- Engineering Science (26.8%)
- Bioscience Engineering (12,6%)
- Engineering Technology (30.5%)
- Architecture (9.6%)

The Faculty of Engineering Technology



~ 800 FTE
Professors &
teaching staff
Researchers
Administrative &
technical staff

- Largest multi-campus faculty of KU Leuven
- ~ 6500 students (Bachelor | Master | PhD)
 - 10% International students



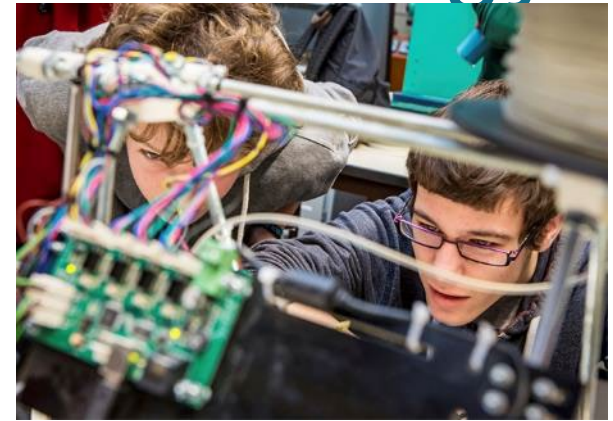
Faculty of Engineering Technology

Bruges Campus | De Nayer (Sint-Katelijne-Waver) Campus | Diepenbeek Campus
Geel Campus | Group T Leuven Campus | Ghent and Aalst Technology Campuses

KU LEUVEN

Profile of Engineering Technology

Unique combination of research-based curricula and practice-based courses



Researchers with practical experience in the implementation of knowledge and technology in different companies or spin-offs

Full English-taught undergraduate programs in electro-mechanical engineering, electrical engineering, chemical engineering, biochemical engineering technology

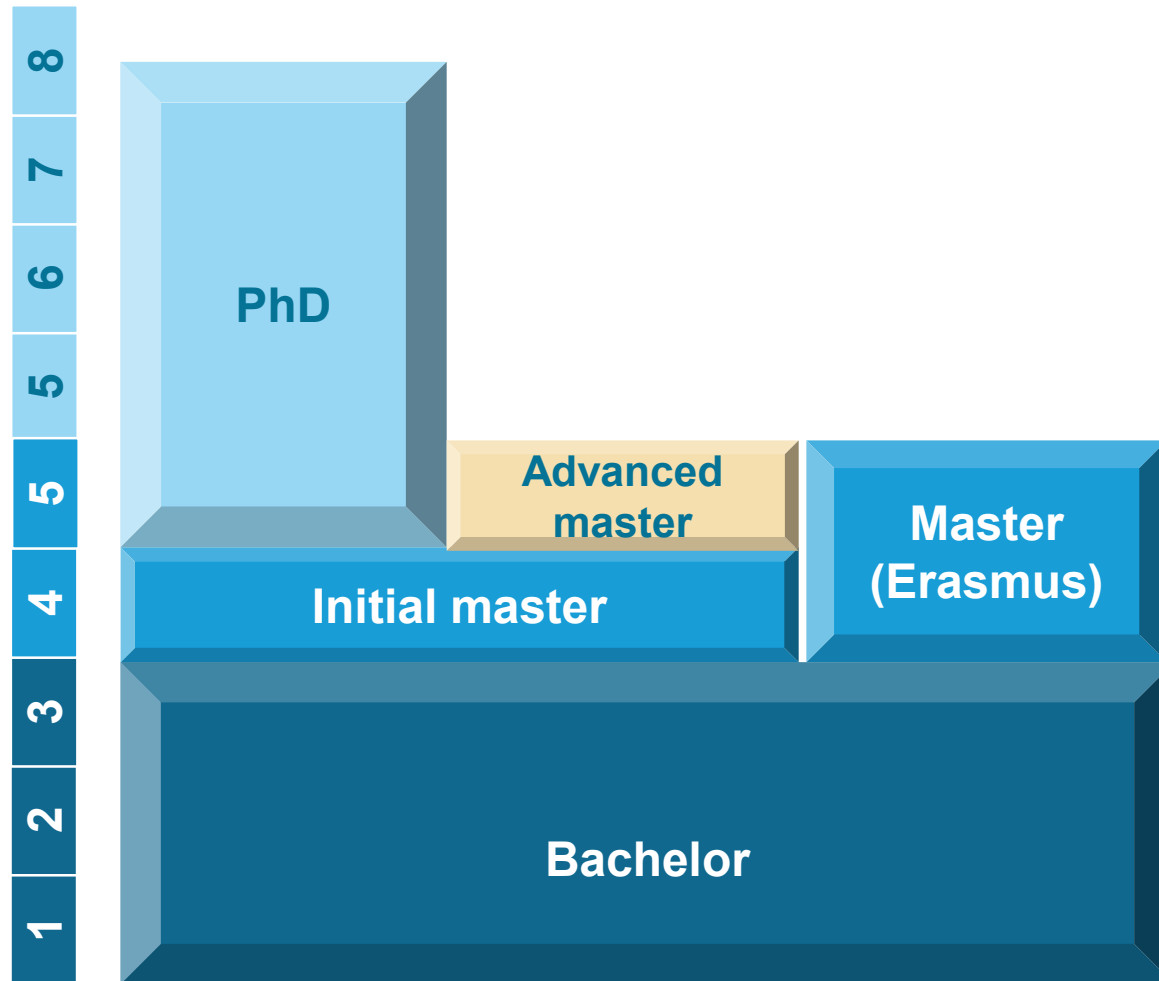


Faculty of Engineering Technology

Bruges Campus | De Nayer (Sint-Katelijne-Waver) Campus | Diepenbeek Campus
Geel Campus | Group T Leuven Campus | Ghent and Aalst Technology Campuses

KU LEUVEN

The education system within FET



Bachelor's programmes

(E) Programmes in English

	GROUP T CAMPUS	DE NAYER CAMPUS	GHEEL CAMPUS	TECHNOLOGY CAMPUS GHENT & AALST	BRUGES CAMPUS	DIEPENBEEK CAMPUS
Bachelor of Science in Engineering Technology						
- Construction Engineering Technology		■		■	■	■
- Chemical Engineering Technology	■ (E)	■		■		■
- Electromechanical Engineering Technology	■ (E)	■	■	■	■	■
- Electronics and ICT Engineering Technology	■ (E)	■	■	■	■	■
- Polymer Processing Technology					■	
- Nuclear Engineering Technology						■
- Packaging Engineering Technology						■
Bachelor of Science in Bioengineering Technology			■			

Master's programmes

(E) Programmes in English

	GROUP T CAMPUS	DE NAYER CAMPUS	GEEL CAMPUS	TECHNOLOGY CAMPUS GHENT & AALST	BRUGES CAMPUS	DIEPENBEEK CAMPUS
Master of Science in Engineering Technology						
- Biochemical Engineering Technology	■ (E)	■		■		■
- Chemical Engineering Technology	■ (E)	■		■		■
- Electromechanical Engineering Technology	■ (E)	■	■	■	■	■
- Electronics and ICT Engineering Technology	■ (E)	■	■	■	■	■
- Energy Engineering Technology		■	■	■	■	■
- Construction Engineering Technology		■		■ (E)	■	
- Polymer Processing Technology					■	
- Nuclear Engineering						■
- Packaging Engineering						■
Master of Science in Sustainable Food Systems Engineering,, Technology and Business						
				■ (E)		
Master of Science in Bioengineering Technology						
- Agro- and Horticultural Engineering			■			
- Food Industry Engineering			■			
Erasmus Mundus Japan Master of Science in Imaging and Light in Extended Reality						
				■ (E)		

Faculty of Engineering Technology

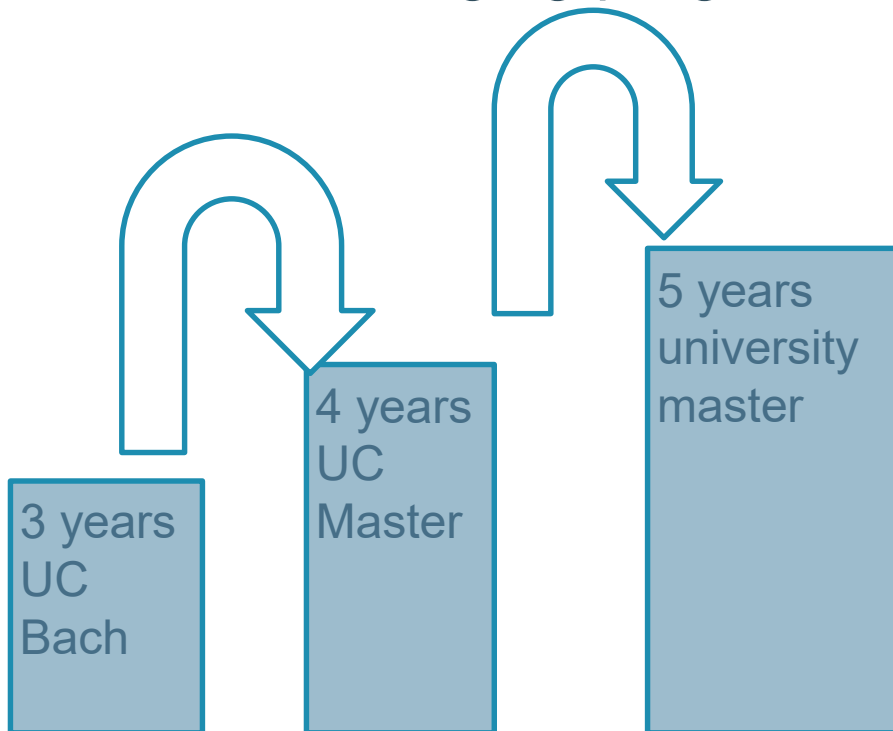
Bruges Campus | De Nayer (Sint-Katelijne-Waver) Campus | Diepenbeek Campus
Geel Campus | Group T Leuven Campus | Ghent and Aalst Technology Campuses

Advanced master's programmes

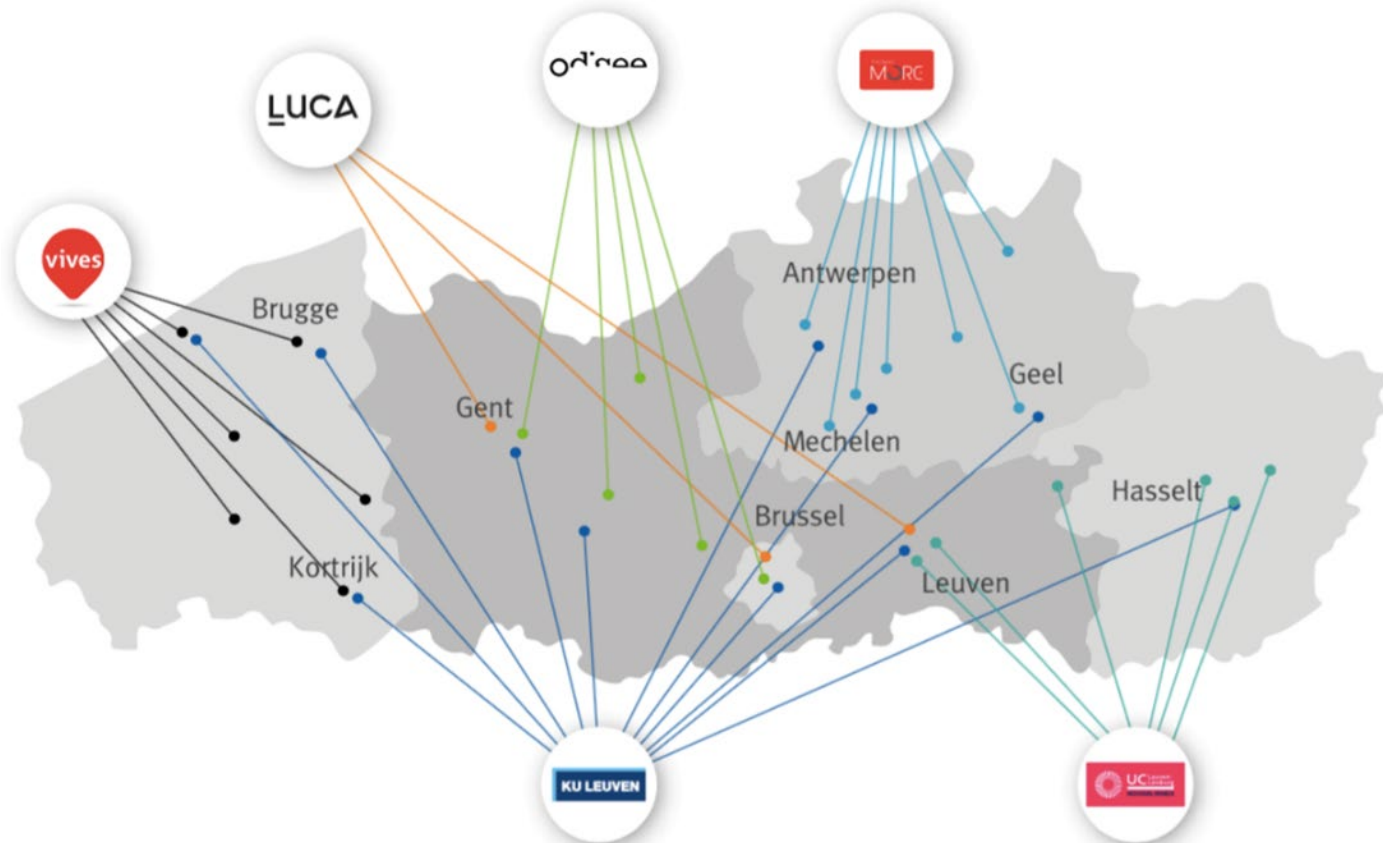
- Advanced Master in Welding Engineering
(De Nayer Campus)
- Advanced Master of Science in Innovative Health
Technology
(Group T Campus)

2013 – integration of university colleges

- From a tertiary system to a binary system in higher education with bridging programmes



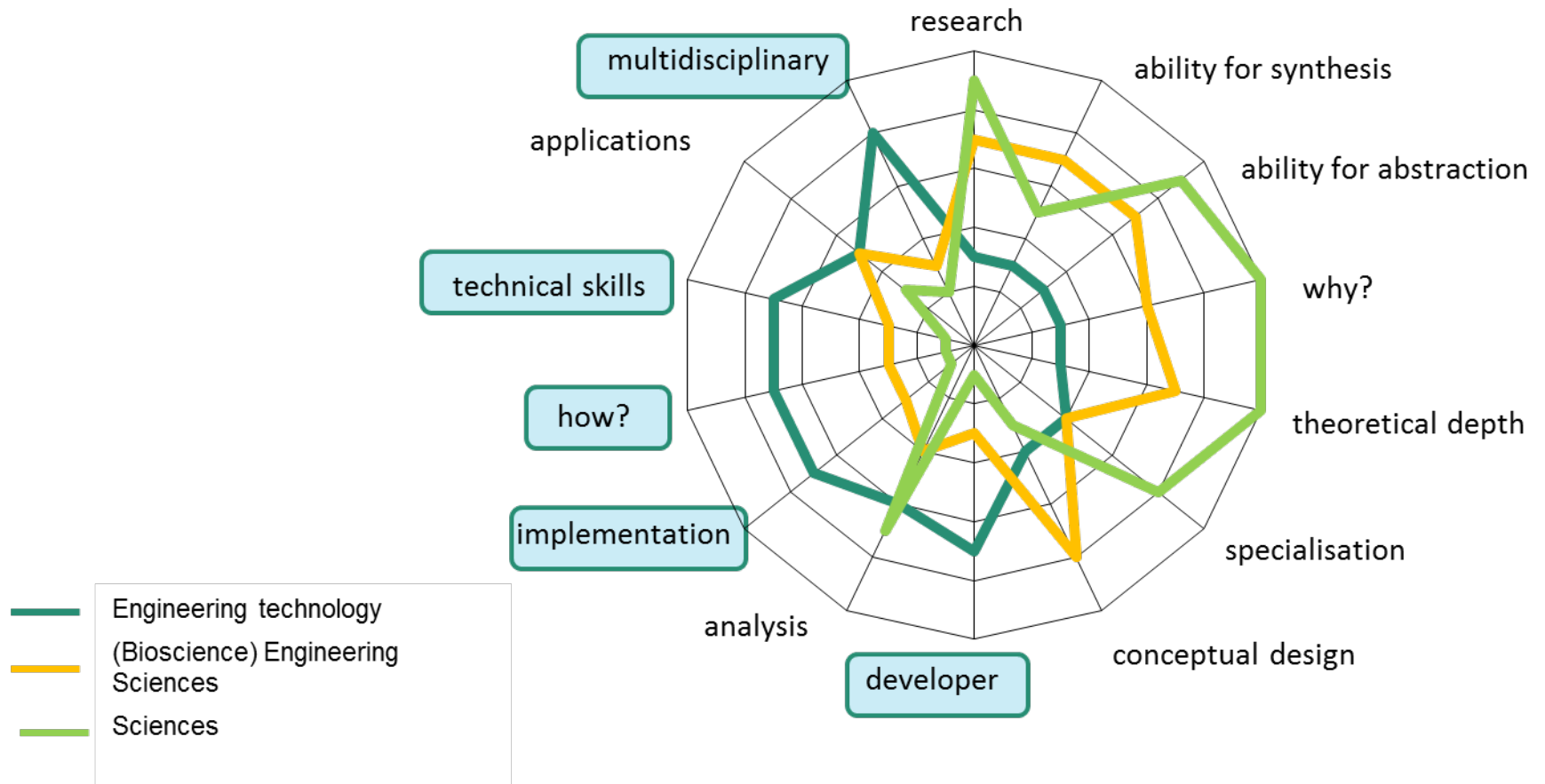
“Association KU Leuven”



After integration – binary system

- UC colleges : “professional bachelor”
 - 6 semester study programmes
 - 1 semester internship/project
 - Immediate specialisation eg. mechanical design, electronics
 - Immediate employability
- Universities integrate all academic programmes from the UCs

Educational profile



Research profile

Fundamental
research

Research continuum

Market
implementation

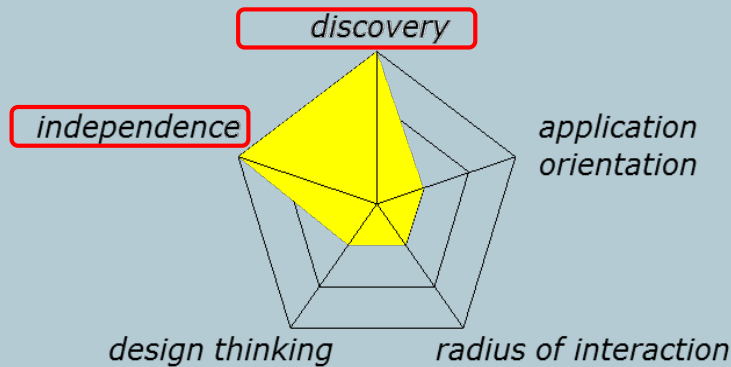


The different research profiles



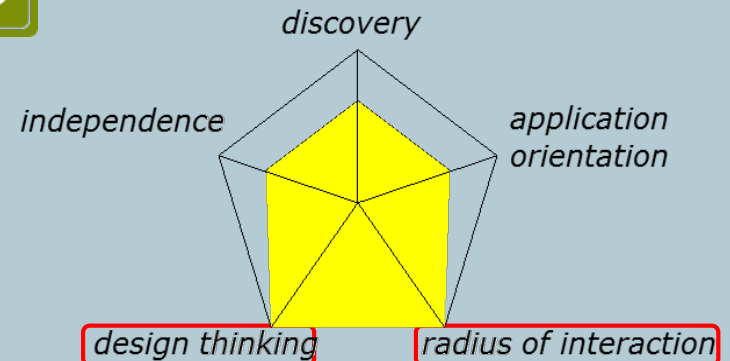
science

The "researcher-knowledge creator"



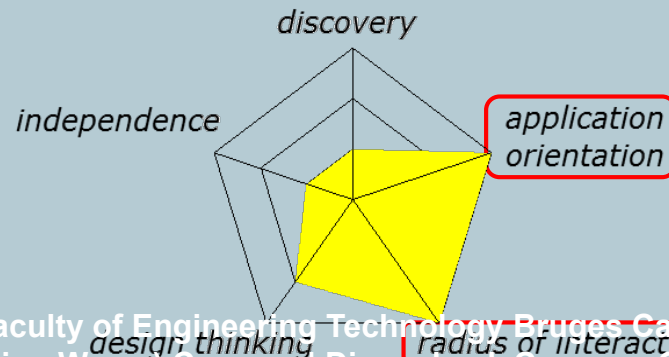
(bio) engineering science

The "researcher-problem solver"

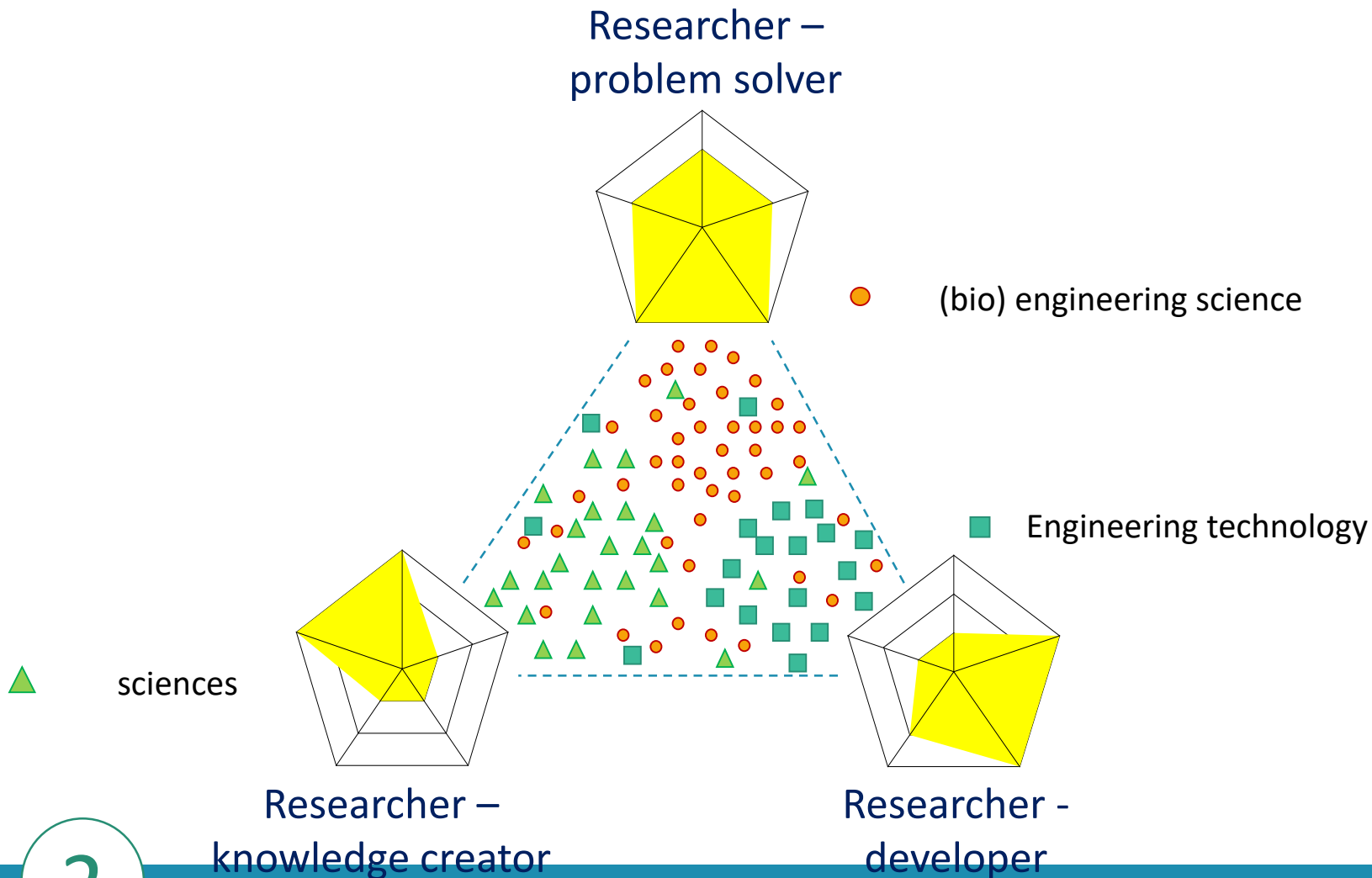


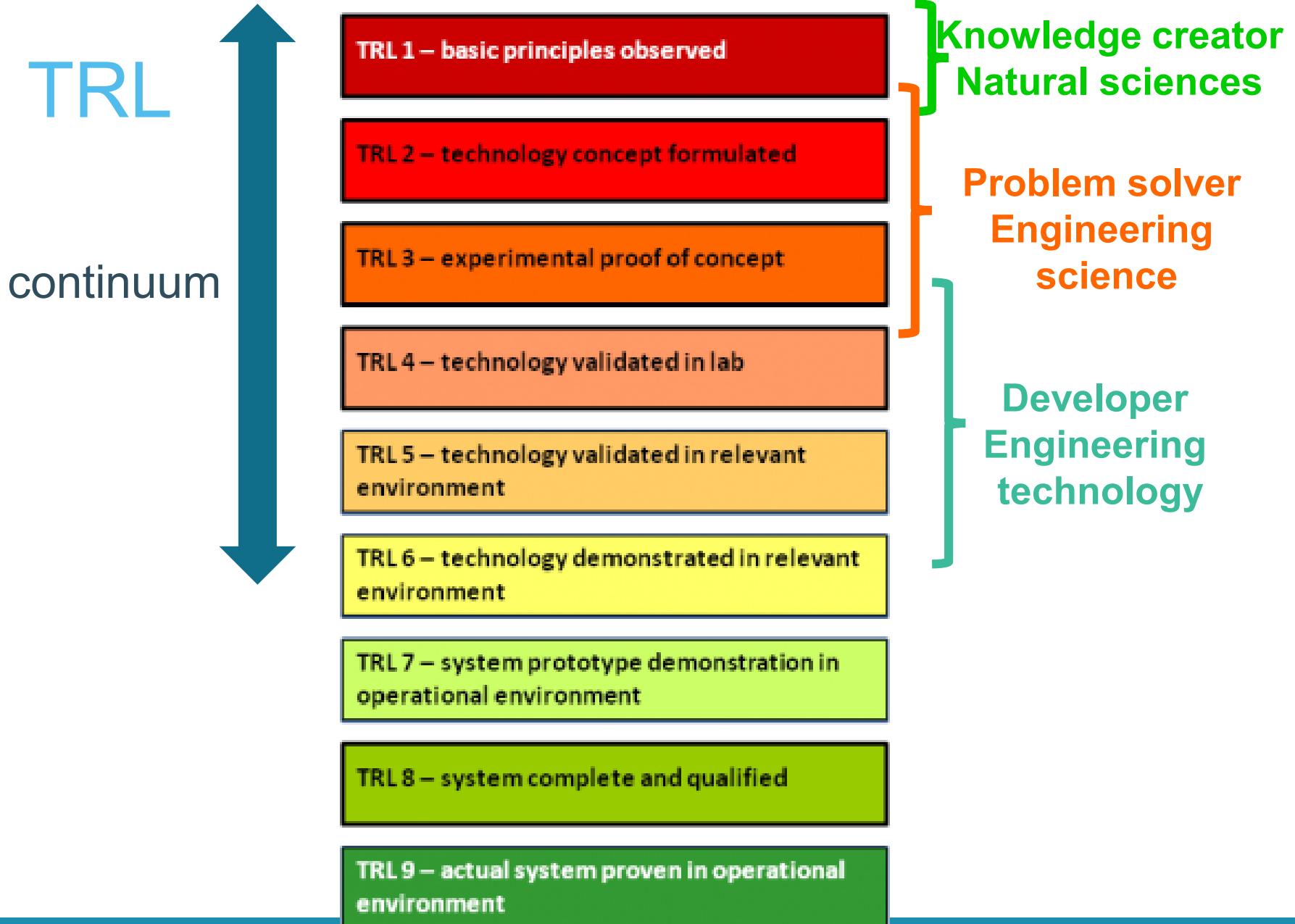
engineering technology

The "researcher-developer"



Research and PhD profiles S&T





Doctorate profile

- Organisation: Arenberg Doctorate School
- In correspondence with the research profile
 - From concept to actual realisation
 - Thorough experimental or virtual testing phase
 - Multidisciplinary and multitechnological
 - Special attention for boundary conditions
 - Leading to valorization or follow-up research
 - Resulting in publications and demonstrators
- Industrial relevance of the research is a key element
- Industry member in the supervisory committee

Research focus groups

- multidisciplinary
- Different types of Expertise

- Mechatronics and machine production incl. polymers processing, aeronautics, reliable electronics systems and software
- Coastal engineering and soil mechanics
- Recycling of construction materials

- Intelligent advanced production systems incl. welding technology
- Embedded and intelligent monitoring systems
- Construction Materials and structures (steel, composites ...)
- (Bio)Chemical processtechnology and materials recovery

- Educational research



- Food and food processing technology
- Sustainable primary food production
- Sustainable thematic energy systems
- Production systems for bio- and agro-industry
- Electronic sensors and data processing

- Light and lighting
- Cybersecurity and networks
- Logistics and communication
- Sustainable energy
- Process- and productoptimisation
- Geo-informatics
- Smart constructions
- Food and beverage technology and food safety

- Health engineering:
 - Games & interactive applications
 - Smart & medical instrumentation
 - Materials for biomedical engineering
- Sustainable engineering :
 - Mobility
 - Quality control & sustainable manufacturing
 - Life cycle engineering
 - Process microbial ecology

- Automation, computer vision and robotics
- Innovative plastics processing
- Embedded systems and security
- Development of sustainable chemical processes

Strategic plan 2017-2021



**TRULY
INTERNATIONAL**



**FUTURE-ORIENTED
EDUCATION**



GOING DIGITAL



INTERDISCIPLINARY



SUSTAINABILITY

A comprehensive university



FACULTIES

15



BACHELOR DEGREES

49

(DUTCH)

4

(ENGLISH)



MASTER DEGREES

123

(DUTCH)

68

(ENGLISH)

1

(FRENCH)



ADVANCED MASTERS

19

(DUTCH)

22

(ENGLISH)

1

(SPANISH)

A global reach

10,677

INTERNATIONAL
STUDENTS

140

NATIONALITIES

1,815

INCOMING
EXCHANGE
STUDENTS

1,727

OUTGOING
EXCHANGE
STUDENTS

39

UNIVERSITY-WIDE
AGREEMENTS

>2,100

FACULTY
AGREEMENTS

>50

PROGRAMME
AGREEMENTS

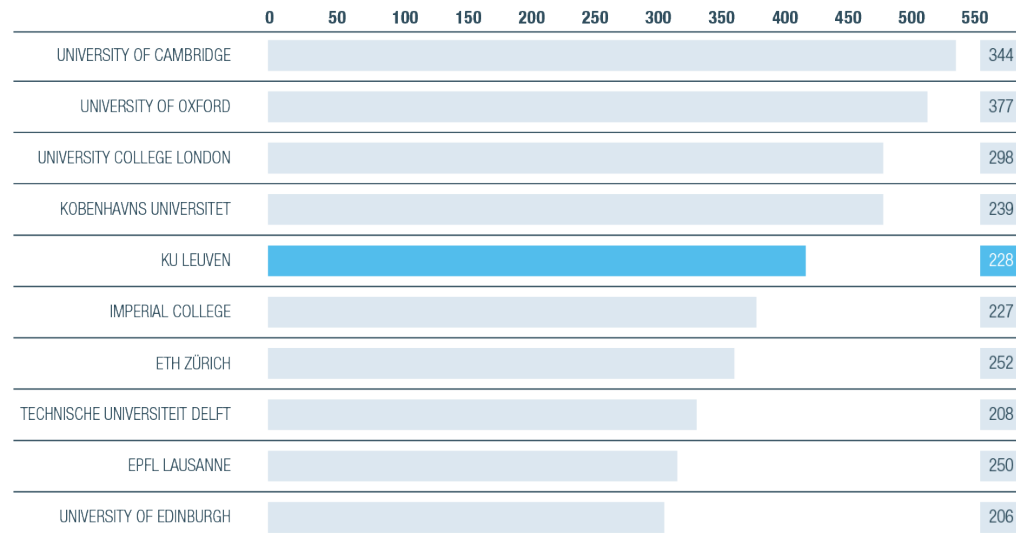


Research excellence

KU Leuven: a leading European research university

TOP 10 HIGHER EDUCATION INSTITUTIONS based on the number of Horizon 2020 projects

PARTICIPATIONS, JUNE 30, 2019



LABEL = BUDGET IN MILLION €

Entrepreneurship at FET

- Postgraduate course in entrepreneurship and innovation for engineers

For in-company projects

<https://innoverendondernemen.be/english/>

For teams and start-ups

<https://iiw.kuleuven.be/opleidingen/techinvent>

- TECHNOVATION Hub -

<https://www.technovationhub.be/english/index.html>

Entrepreneurship at FET





Thank you

KU LEUVE