

KU LEUVEN



Inspiring the outstanding



Co-funded by
the European Union

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**Almost
600 years
KU Leuven**



A highly ranked university

#1

in the **Reuters** World Ranking of
Most Innovative Universities in Europe (2019)

#42

in the **Times Higher Education**
World University Ranking (2022)

#84

in the **QS** World University Ranking (2021)

#5 ranked university in the European
Commission **Horizon 2020** programme (HEI only)

#17 ranked university in the **ERC** grants
programme with over 110 projects (HEI only)

Latest update: June 2020

KU Leuven in the heart of Europe

10 LOCATIONS - 14 CAMPUSES



Leuven

Leuven Group T Campus

De Nayer Campus, Sint-Katelijne Waver

Geel Campus

Carolus Antwerp Campus

Saint-Andries Antwerp Campus

Aalst Campus

Saint-Lucas Ghent Campus

Saint-Lucas Brussels Campus

Brussels Campus

Ghent Technology Campus

Bruges Campus

Kulak Kortrijk Campus

Diepenbeek Campus *

* The programmes at Diepenbeek Campus are jointly offered by UHasselt and KU Leuven

KU Leuven in numbers



STAFF

12 680
(KU LEUVEN)

9 335
(UNIVERSITY HOSPITALS)



RESEARCHERS

7 637



STUDENTS

60 057

INTERNATIONAL STUDENTS

12 421



ALUMNI

+250 000



SPIN-OFFS

135

Last update: June 2020

A global reach

12 421

INTERNATIONAL
STUDENTS

+140

NATIONALITIES

1 788

2 257 OUTGOING
EXCHANGE
STUDENTS

61

UNIVERSITY-WIDE
AGREEMENTS

>2 200

FACULTY
AGREEMENTS

>50

PROGRAMME
AGREEMENTS



Last update: June 2020

Europe's most innovative university

REUTERS TOP 10

Most innovative universities worldwide • 2019

1	Stanford University	USA
2	Massachusetts Institute of Technology – MIT	USA
3	Harvard University	USA
4	University of Pennsylvania	USA
5	University of Washington	USA
6	University of North Carolina Chapel Hill	USA
7	KU Leuven	Belgium
8	University of Southern California	USA
9	Cornell University	USA
10	Imperial College London	UK

OUR DISCOVERIES ADDRESS REAL-WORLD PROBLEMS,
TRULY CHANGING PEOPLE'S LIVES FOR THE BETTER

VALUABLE
CONTRIBUTIONS
TO SOCIETY

7 430
researchers
& professors

6 236
PhD
researchers

€ 522 million
in research expenditures

KU Leuven's approach to clinical research is built on exemplary collaboration between KU Leuven researchers and doctors from University Hospitals Leuven.

Last update: June 2020

A comprehensive university



FACULTIES

16



BACHELOR DEGREES

48

(DUTCH)

5

(ENGLISH)



MASTER DEGREES

137

(DUTCH)

69

(ENGLISH)

1

(FRENCH)



ADVANCED MASTERS

19

(DUTCH)

23

(ENGLISH)

1

(SPANISH)

**Last updated: June 2020*

16 faculties



HUMANITIES & SOCIAL SCIENCES

- Theology and Religious Studies
- Canon Law
- Institute of Philosophy
- Law
- Economics and Business
- Social Sciences
- Arts
- Psychology and Educational Sciences



SCIENCE, ENGINEERING & TECHNOLOGY

- Science
- Architecture
- Engineering Science
- Bioscience Engineering
- Engineering Technology



BIOMEDICAL SCIENCES

- Medicine
- Pharmaceutical Sciences
- Movement and Rehabilitation Sciences

KU LEUVEN



SCIENCE, ENGINEERING & TECHNOLOGY (SET) GROUP



SCIENCE, ENGINEERING & TECHNOLOGY (SET) GROUP

5 Faculties

Science

Engineering Science

Bioscience Engineering

Engineering Technology

Architecture

Arenberg Doctoral School

14 Research departments

- Architecture
- Biology
- Biosystems
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Earth and Environmental Sciences
- Electrical Engineering (ESAT)
- Mathematics
- Mechanical Engineering
- Materials Engineering
- Microbial and Molecular Systems
- Physics and Astronomy

SET Group

Mission



Excellence in academic **education**



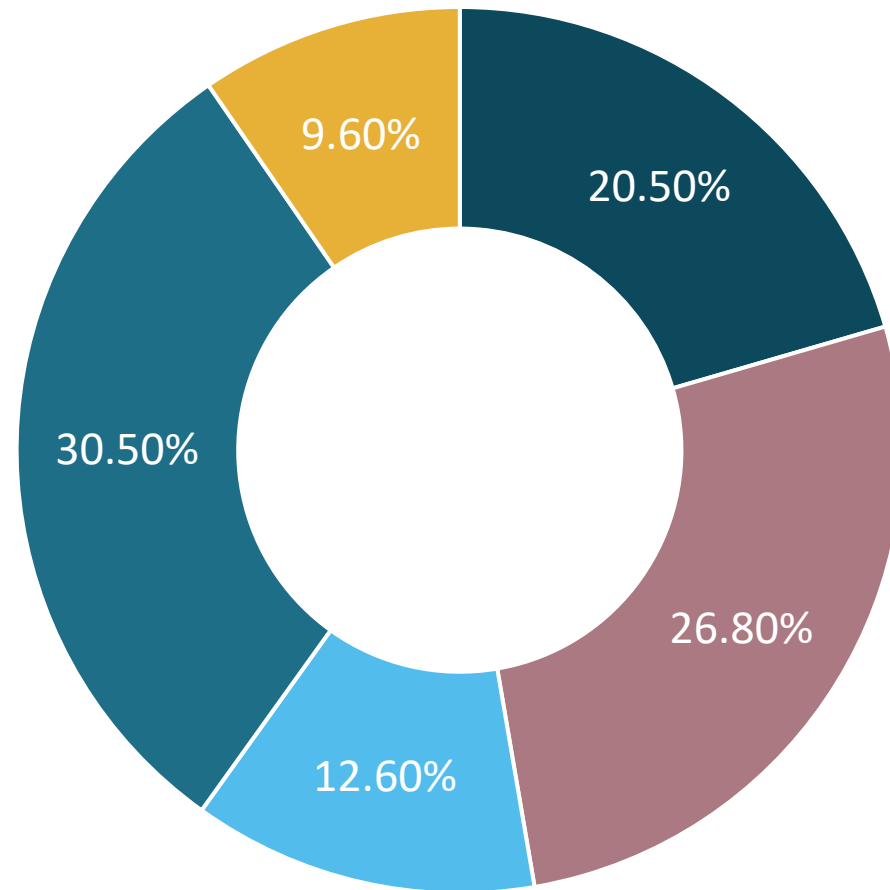
Excellence in **research**



Distinguished **service to society**
(innovation and valorisation)

SET Group in numbers

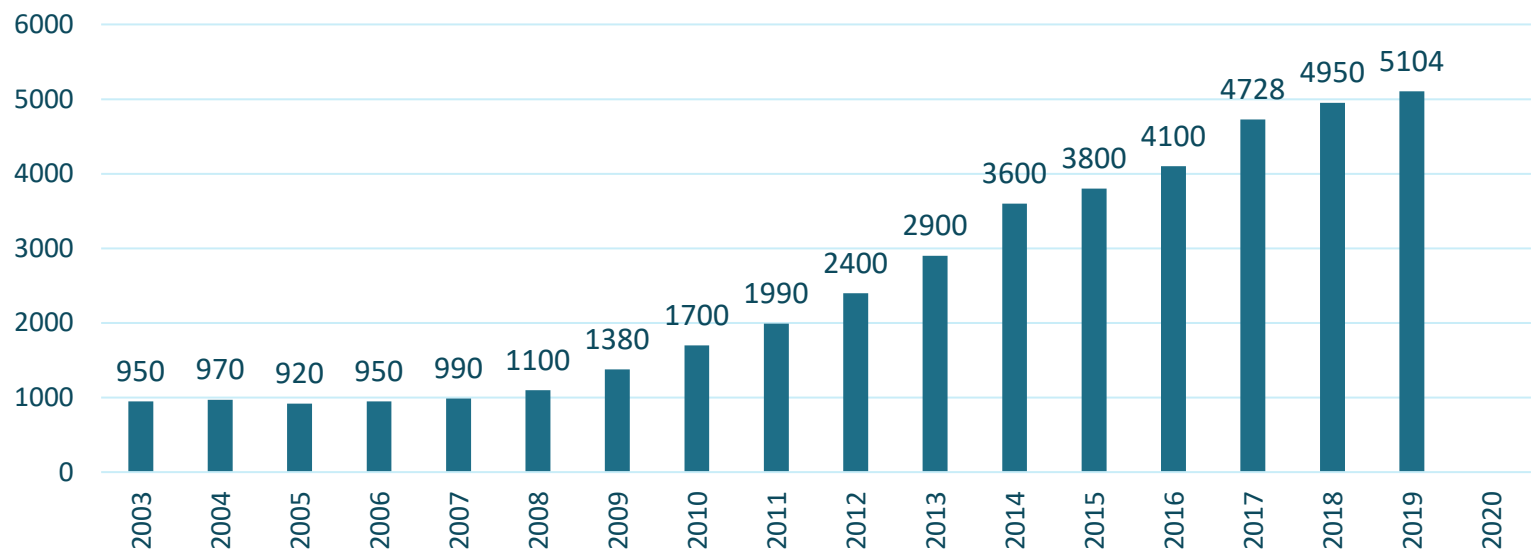
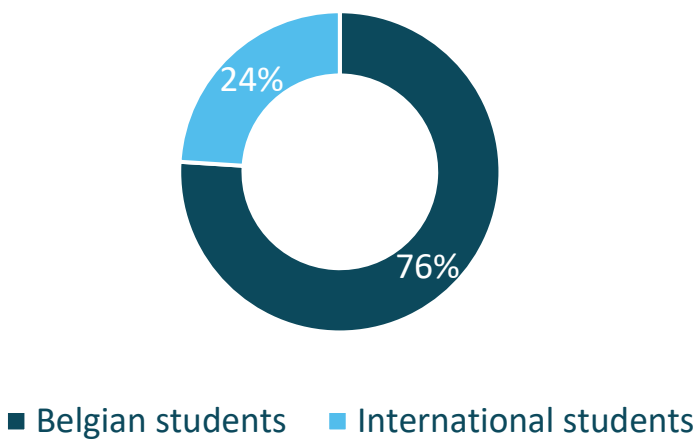
+20,000
students



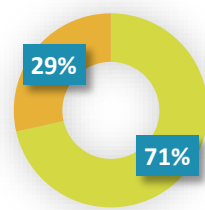
- Science
- Engineering Science
- Bioscience Engineering
- Engineering Technology
- Architecture

SET Group in numbers

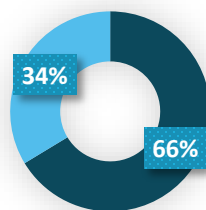
International students



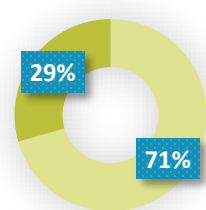
Science



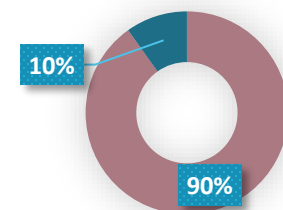
Engineering Science



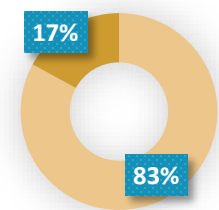
Bioscience Engineering



Engineering Technology



Architecture



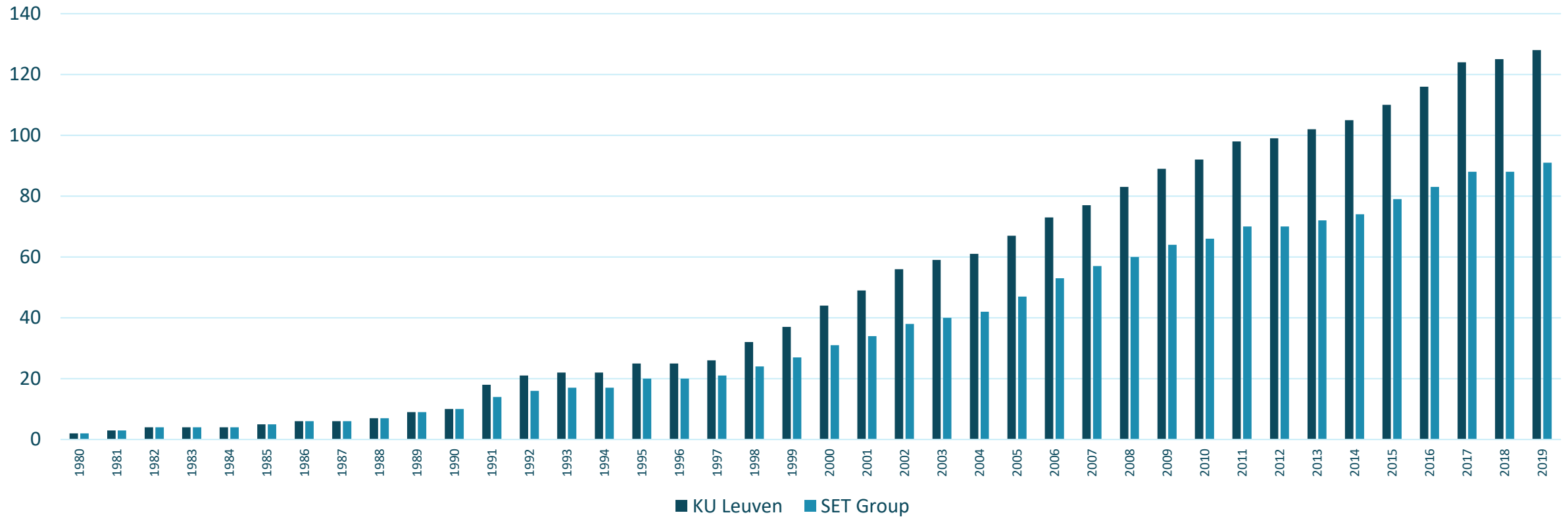
SET Group

Spin-offs

2019

128 spin-off companies

+7000 direct jobs



Cumulative number of spin-offs created



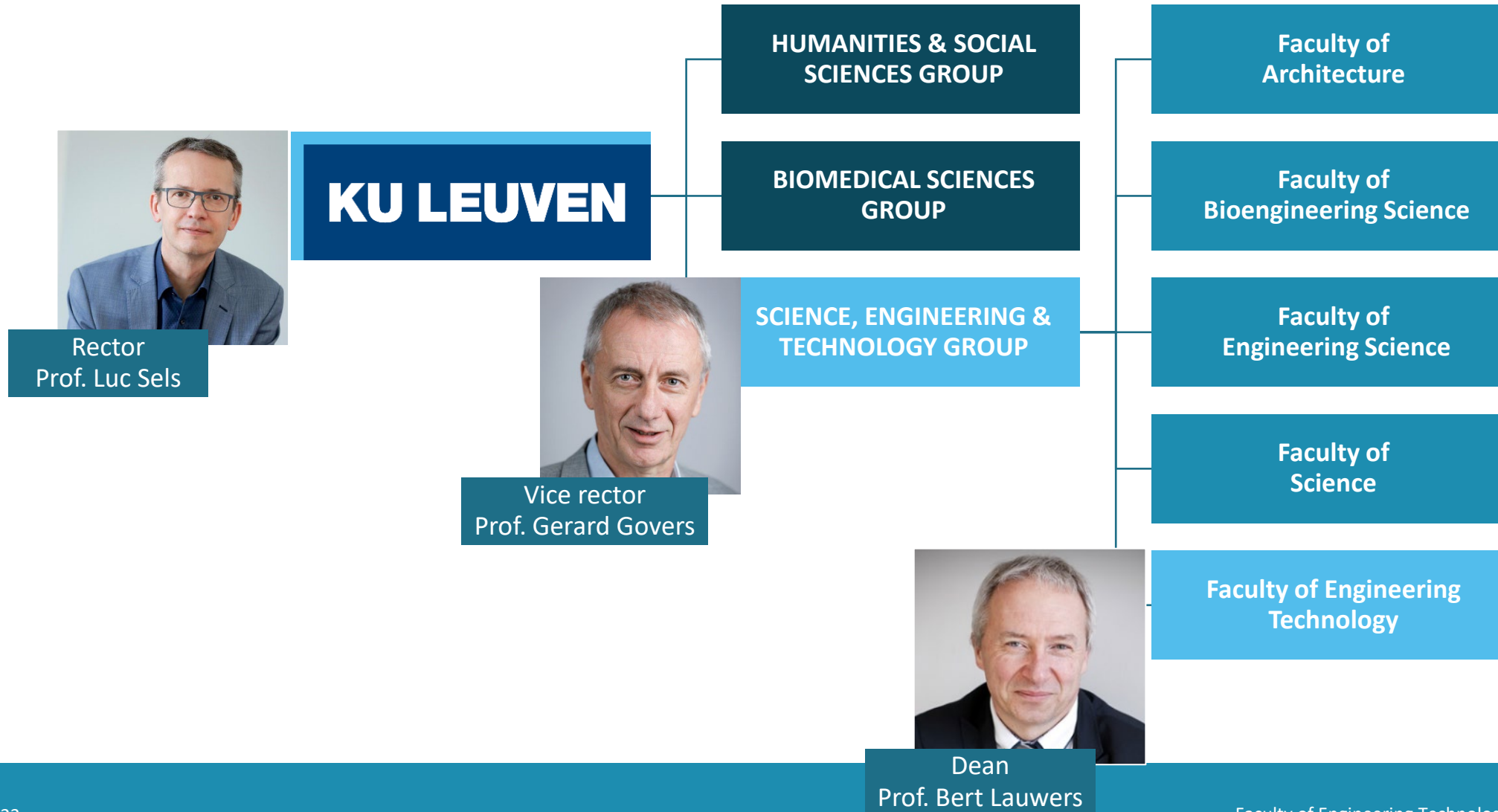
KU LEUVEN

FACULTY OF ENGINEERING TECHNOLOGY (FET)

BRUGES | GHENT & AALST | SINT-KATELIJNE-WAVER DE NAYER |
LEUVEN GROUP T | GEEL | DIEPENBEEK



FET at KU Leuven

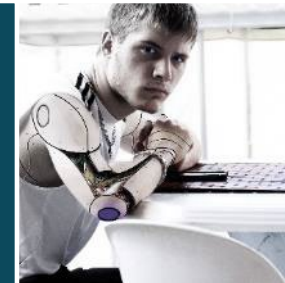


Our mission



A unique **application-oriented academic engineering** education programme including research-based curricula and practice-based courses that stimulate initiative, creativity and entrepreneurship

Researchers with experience in **valorising and implementing** knowledge and technology in various companies and spin-offs



Strong local anchoring and application-oriented focus in collaboration with the industry promote social service

Faculty of Engineering Technology

Multicampus faculty

7 CAMPUSES IN FLANDERS, BELGIUM

+6000 STUDENTS



+14% INTERNATIONAL STUDENTS



+800 STAFF



+20% INTERNATIONAL STAFF



Faculty of Engineering Technology

Education and research at KU Leuven in and outside Leuven



Bruges

www.kuleuven.be/campusbrugge



Ghent

www.kuleuven.be/english/campuses/ghent-technology-campus



Aalst

www.kuleuven.be/english/campuses/aalst-campus



Sint-Katelijne-Waver De Nayer

www.kuleuven.be/campusdenayer



Leuven Group T

www.kuleuven.be/english/campuses/group-t-leuven-campus



Geel

www.kuleuven.be/campusgeel



Diepenbeek

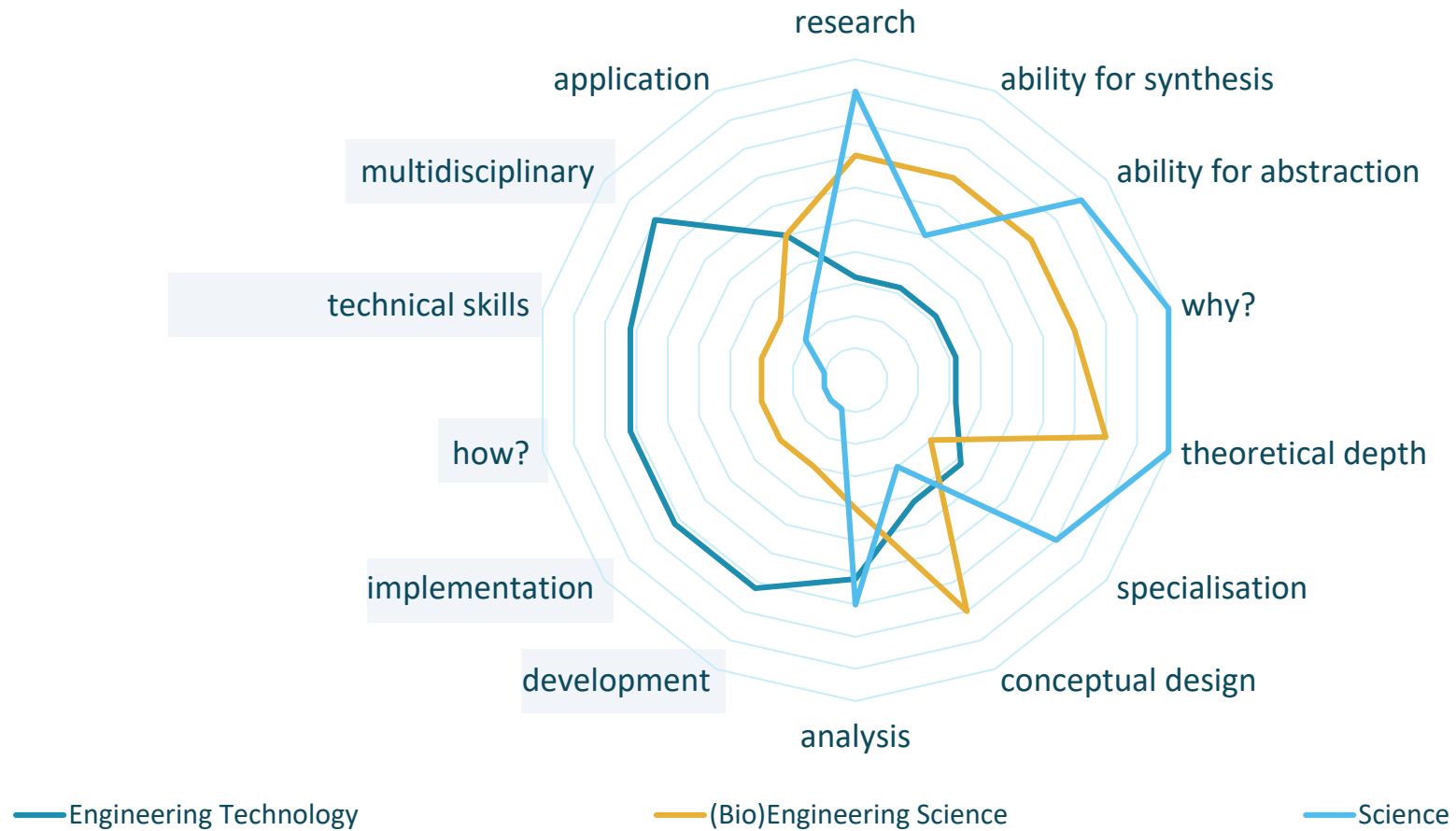
in collaboration with UHasselt

<https://www.kuleuven.be/english/campuses/diepenbeek-campus>

A photograph of several students in a classroom or lecture hall, focused on their work. A young man in the foreground is writing with a pen, while others in the background are also looking down at their papers or devices. The image is partially obscured by a semi-transparent blue bar.

Engineering profiles

Educational profile



EDUCATION

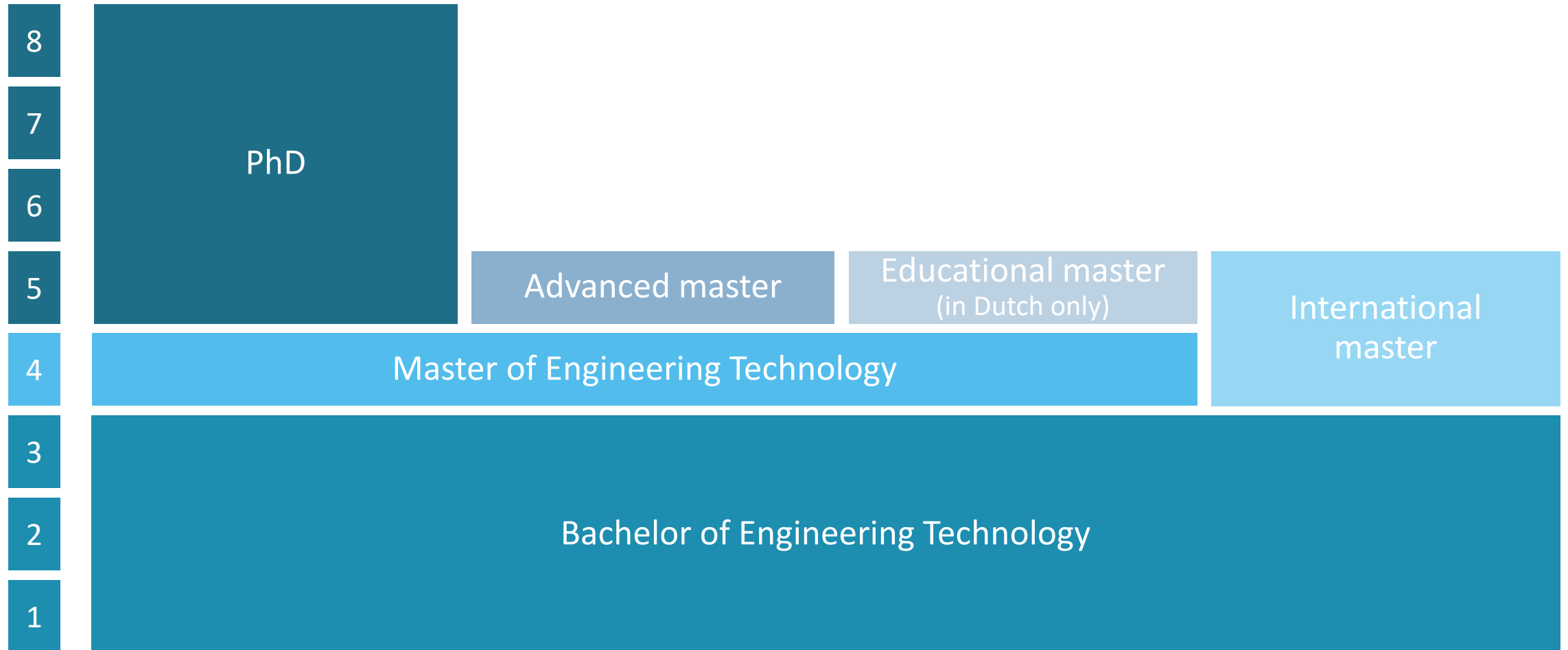
BRUGES | GHENT & AALST | SINT-KATELIJNE-WAVER DE NAYER |

LEUVEN GROUP T | GEEL | DIEPENBEEK |



Faculty of Engineering Technology

The educational system



Research

Departments on campus



Biosystems (BIOSYST)

📍 Geel



Chemical Engineering

📍 Ghent
📍 De Nayer
📍 Leuven Group T
📍 Diepenbeek



Civil Engineering

📍 Bruges
📍 Ghent
📍 De Nayer



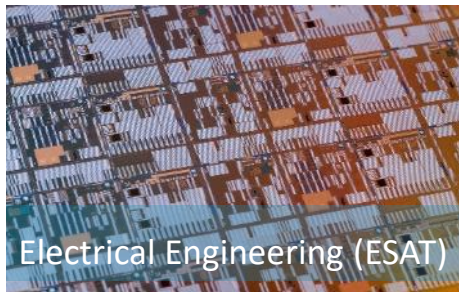
Computer Sciences

📍 Bruges
📍 Ghent Technology
📍 De Nayer
📍 Leuven Group T
📍 Geel
📍 Diepenbeek



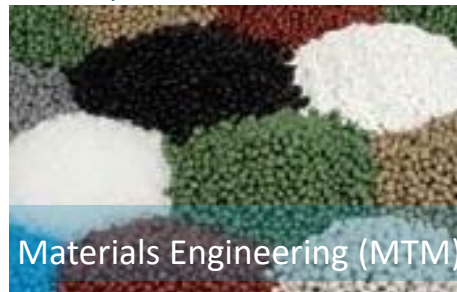
Earth and Environmental Sciences

📍 Geel



Electrical Engineering (ESAT)

📍 Bruges
📍 Ghent
📍 De Nayer
📍 Leuven Group T
📍 Geel
📍 Diepenbeek



Materials Engineering (MTM)

📍 Bruges
📍 Ghent
📍 De Nayer
📍 Leuven Group T
📍 Diepenbeek



Mechanical Engineering

📍 Bruges
📍 Ghent
📍 De Nayer
📍 Leuven Group T
📍 Geel
📍 Diepenbeek



Microbial and Molecular Systems (M2S)

📍 Ghent
📍 Leuven Group T
📍 Geel



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KU LEUVEN

GENT

KU LEUVEN GHENT CAMPUS

KU Leuven - Ghent

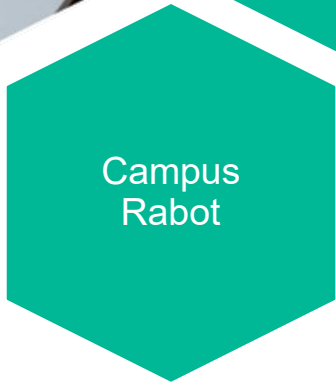
3 faculties



Faculty of
Engineering
Technology
FET, FIW



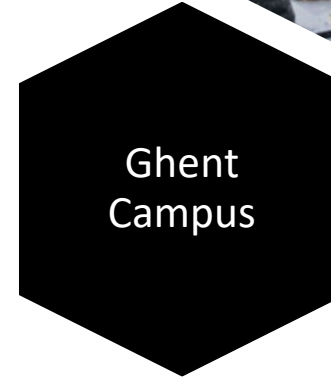
Associated
Faculty of
Arts



Campus
Rabot



Faculty of
Architecture
FA



Ghent
Campus



Campus
Sint-Lucas
Gent



KU Leuven - Ghent

Educational programs

- ABa, Ma en PhD Engineering Technology
- ABa, Ma en PhD Architecture
- ABa, Ma, PhD en pBA LUCA School of Arts (associated faculty)
- Postgraduates
- Educational Masters



KU LEUVEN

GENT

KU Leuven - Gent

Some history of Engineering Technology in Ghent

Brewery school Sint-Lieven
1892

K.I.H.O
1977

KaHo Sint-Lieven
1995

KU Leuven Ghent Campus
2013

KU LEUVEN

GENT

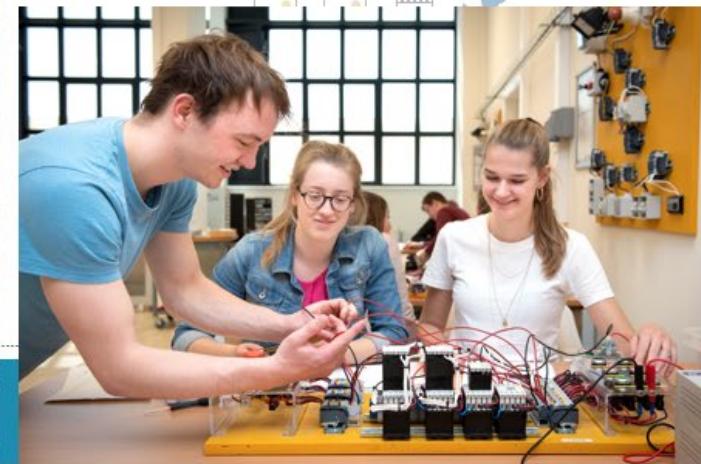
KU LEUVEN GHENT CAMPUS

TEACHING

Campus Gent		9/10/2022
	Engineering Technology	Academic Bachelor Aalst
		18
		Academic Bachelor Gent
		595
		Master (incl. EMM)
		486
		Educational master Aalst
		29
		Educational master Gent
		46
		Preparatory- and Bridging programmes
		223
		Postgraduate Course
		2
		1399

KU Leuven - Ghent

Engineering Technology - Infrastructure



KU Leuven - Ghent

4 International masterprograms

NEW ON GHENT TECHNOLOGY CAMPUS: ERASMUS MUNDUS MASTER IN IMAGING AND LIGHT EXTENDED REALITY

Ghent Technology Campus has a long tradition in Erasmus Mundus European master programmes. From September 2020 onwards, students can take a brand new programme that leads to an Erasmus Mundus Mac degree in Imaging And Light In Extended Reality.

The Faculty of Engineering Technology has joined forces with the University of Eastern Finland, the French Université Saint-Etienne and the Toyohashi University of Technology in Japan to set up an international study programme with a focus on the future technologies in photonics, imaging and lighting. The IMLEX technologies in master offers courses to the cutting edge of new technologies in these fields.

The IMLEX programme did not appear unexpectedly. The research

By creating a curriculum linked to these research topics, Peter Hanselaer wants to attract excellent students and PhD researchers to apply the research in practice. The IMLEX study programme is a two-year master's programme where students take a mobility track from Finland, to Ghent and Saint-Etienne and then Toyohashi, each for one semester. In the first semester students meet with all basic aspects of imaging and lighting, as well as photonics and optics. They continue their study in either Saint-Etienne for the imaging specialization or our Faculty of Engineering Technology for the lighting specialization. These specialisation courses are elaborated in-depth in semester three in Toyohashi University of Technology. The "technological engineering" profile is guaranteed by a company internship and several cases in thesis, which can be taken at any of the partner institutions or selected research institutes or companies.

The curriculum organised at KU Leuven includes five course modules on lighting science, lighting technology, lighting metrology, lighting design and lighting business. Because engineering students also need to prepare for a study period in Japan, a course in Japanese language and culture is included, as well as a course unit on academic writing. Here lies another innovative aspect of the IMLEX master's course: not only the international and multidisciplinary approach is typical, the semester on lighting is also an "inter-faculty semester". The Faculty of Architecture is collaborating with the research group in lighting to cover the aspects of lighting design in the study programme. Prof. Bruno Depré will teach the course on lighting design.

IMLEX responds to a realistic demand from industry, as is proven by the large number of companies associate members, most of them companies (e.g. Trilux, Etap, Engie...). The graduates of this study programme will contribute to the next industrial revolution of Industry 4.0, where augmented reality will play a dominant role. The massive interest in this field is demonstrated in the first application round for the academic year 2020-2021: 116 candidates have submitted an application to date.



KU LEUVEN

GENT

KU LEUVEN GHENT CAMPUS

RESEARCH



KU Leuven - Ghent

Engineering Technology – 13 Research groups



Bio-engineering technology:

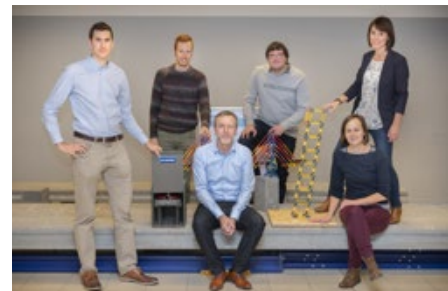
- Laboratory of Enzym, Fermentation and Brewing Technology
- Meat Technology and Science of Protein-rich Foods

Materials Engineering:

- MEtaL PerfOrmance InnOvation (ELOOI)

Sustainable Chemical Process Technology

- Chemical and Biochemical Process Technology and Control



Civil engineering:

- Building Physics and Sustainable Design
- Structural Mechanics, Materials and constructions
- Geomatics

Creative Machine Design and Automation:

- Innovative Technology for Logistics

Electrical Engineering:

- Light and Lighting Technology
- ELECTA (Electrical Energy Technology and Industrial Automation)
- DRAMCO (Design and Research of Aerial eMbedded devices and Cool Other stuff)



Computer Science:

- CODES (Combinatorial Optimization and Decision Support)
- DistriNet@Gent (Security Critical Systems)



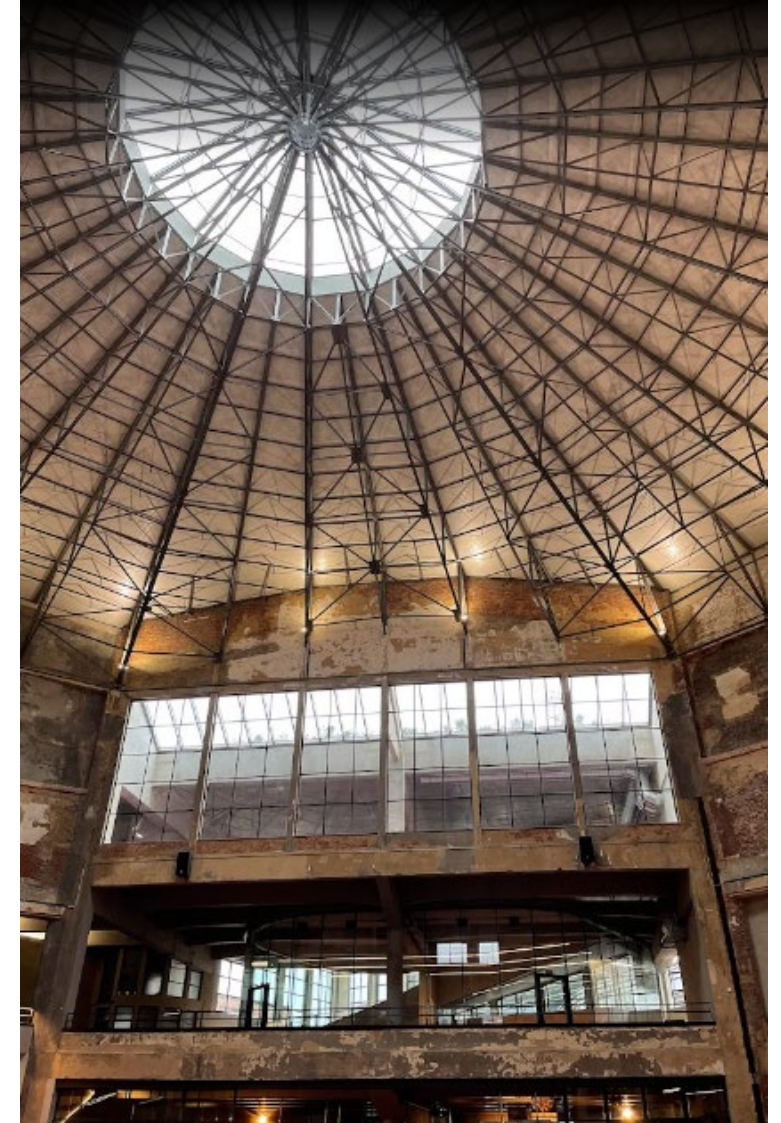
1. Two interdisciplinary PhD projects “City in Transition”
2. A new concept: “*Creatieve makers voor de toekomst*”
 - Curricula: from STEM to STEAM; electives
 - Exchange of professors, interdisciplinary student teams
 - Digitale makerspace (AR, VR)
 - Informal contacts between students en professors
3. Ghent Festival of Light



KU Leuven - Ghent

Connecting

4. Wintercircus (outreach)



5. New building “Bargiekaai”

Auditoria,
student
accommodation

