

UPC

Universitat
Politécnica de Catalunya
BarcelonaTech



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

KNOWLEDGE AREAS

**AERONAUTICAL
AND AEROSPACE
ENGINEERING**

**AGRICULTURE
AND BIOSYSTEMS
ENGINEERING**

**APPLIED SCIENCES:
MATHEMATICS, STATISTICS,
PHYSICS, OPTICS
AND PHOTONICS**

**ARCHITECTURE, URBAN
PLANNING AND BUILDING
CONSTRUCTION**

**CIVIL, ENVIRONMENTAL
AND GEOLOGICAL
ENGINEERING**

INFORMATICS ENGINEERING

**ENGINEERING FOR INDUSTRY:
ENERGY, BIOMEDICAL,
CHEMICAL, ELECTRICAL,
MECHANICAL AND MATERIALS
ENGINEERING**

**NAVAL, MARINE
AND NAUTICAL ENGINEERING**

**TELECOMMUNICATIONS
AND ELECTRONIC SYSTEMS**

THE UPC IN FIGURES

30,155

students

22,789 bachelor's degree students
5,177 master's degree students
2,189 doctoral degree students

3,093

teaching and research staff

20

schools on 8 campuses

1,967

administrative and service staff

3,080

lifelong learning students

45%

international doctoral
degree students
(35% of them non EU)

32%

international master's degree
students

64

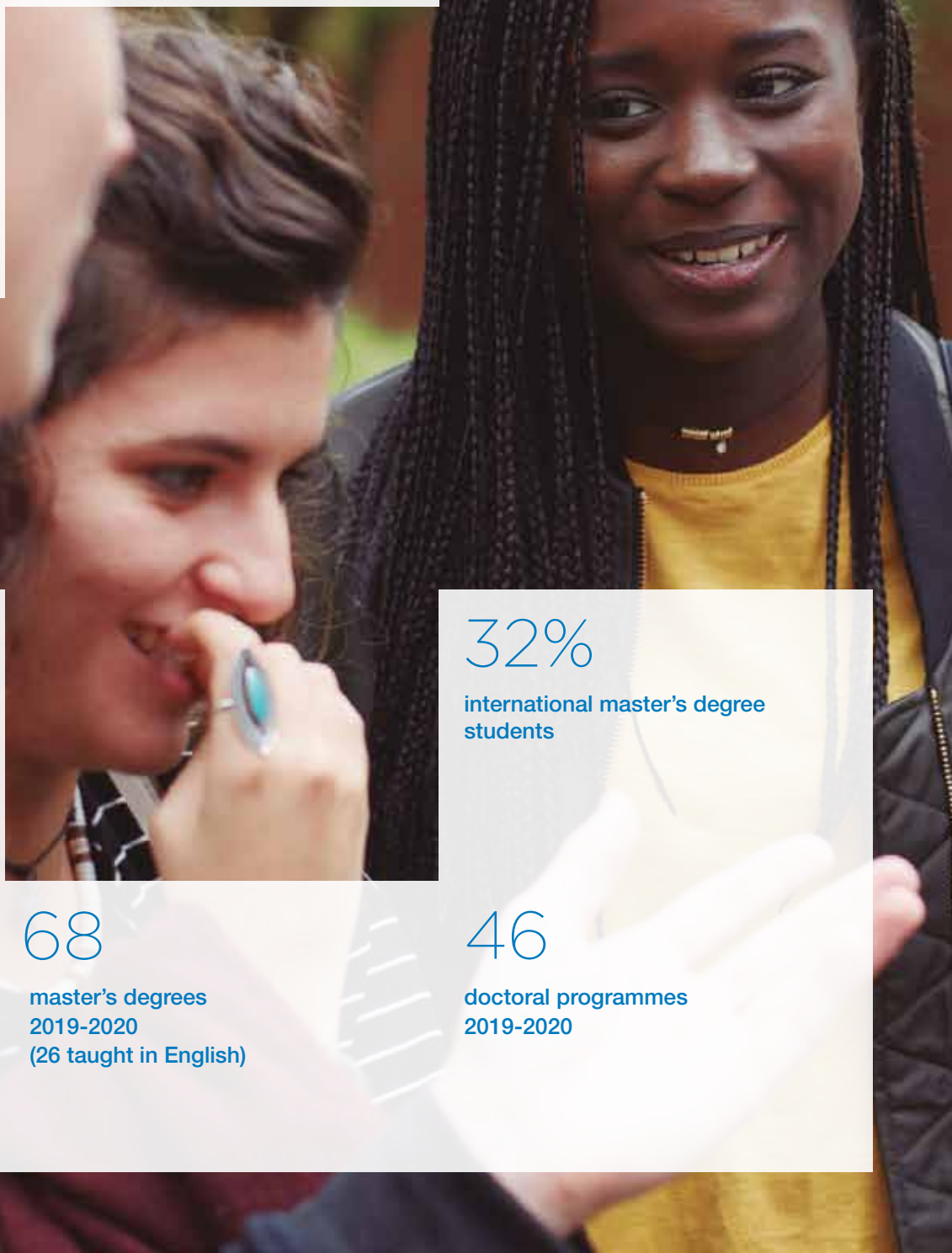
bachelor's degrees
2019-2020

68

master's degrees
2019-2020
(26 taught in English)

46

doctoral programmes
2019-2020



TEACHING

At the UPC students are trained to become professionals in engineering, architecture, sciences and technology who have the knowledge, abilities and skills to take on new challenges in keeping with technological efficiency and sustainability criteria. The UPC teaches bachelor's, master's and doctoral degrees and continuing education courses that are complemented by international mobility and double degree programmes. Students' participation and leadership in research projects and work placements foster their relations with the world of work and bolster their autonomy and initiative. The University is therefore a space for knowledge that stimulates learning and personal growth with a dynamic, motivating teaching model.

4,678

students on internship



49

international double-degree agreements with 30 universities

6,659

graduates of bachelor's and master's degrees

Experimenting to learn. UPC students hunt for muons in the stratosphere to test the theory of relativity. (Photo: CADMUS project) cadmusbexus.com

708

higher education institutions with student exchange agreements

499

new doctoral degree students

38%

of UPC master's degrees are taught in English

58,200

former students registered in UPC Alumni

2,997

students on international mobility programmes
1,490 incoming students
1,507 outgoing students

RESEARCH

Its leadership in research and innovation projects, the talent and rigour of its researchers and its network of cutting-edge facilities and equipment are the basis of the UPC's impressive positions in the main international scientific output rankings. Over the last few years, the University has consolidated its role as a key agent in the progress of an economy that is increasingly based on knowledge and innovation and on collaboration and alliances with other research centers and researchers the world over.

1,923

papers published
in indexed journals

292

doctoral theses defended

130

scientific and technical
awards received

20

focused research centers

10

research centers that are members
of the TECNIO network

Intelligent robotics to improve people's quality of life.
(Photo: Tibi and Dabo, humanoid robots developed by
the Institute of Robotics in Barcelona)
www.iri.upc.edu

4

research institutes

207

research groups

15

associated research centers



KNOWLEDGE TRANSFER

The UPC generates knowledge and transfers it to industry with the aim of increasing businesses' capacity for innovation and competitiveness. One of its most significant lines of work is forging alliances, which are often international in nature, with large companies, institutions and corporations. It also attends to the needs of small and medium-sized businesses that wish to innovate, for which cooperating with the UPC has a multiplying effect. This activity takes shape in numerous agreements and research projects, the creation of technology-based companies, the generation and exploitation of patents and the scientific and technical services and facilities that Parc UPC makes available in order to generate progress and create jobs.



2,807

companies and entities with collaboration agreements

61.4 MEUR

income from R&D projects (2017)

52

patents registered in the last year

313

spin-offs and start-ups set up since 1998

1,897

on-going research projects

807

research agreements and projects signed in 2017

The UPC is working on a wind sensor for NASA's InSight mission. Source: NASA

ALLIANCES

The UPC has woven, through the actions of the people of which it is composed, a complex network of international alliances with other universities, research institutions and companies. These alliances lead to new projects and are the basis for a good number of initiatives in which the word 'collaboration' plays a key part. A global, interconnected world that fosters the sharing of knowledge and experiences is the setting for these alliances without borders.

378

academic cooperation agreements
with international institutions

SINO-SPANISH CAMPUS

A university campus set up by the UPC and the Technical University of Madrid at Tongji University (China).

INNOENERGY

A Knowledge and Innovation Community (KIC) set up by the European Institute of Innovation and Technology (EIT) to promote innovation in the field of energy.

MOBILus

A Knowledge and Innovation Community (KIC) set up by the European Institute of Innovation and Technology (EIT) to promote the innovation in the urban mobility of the European Union.

Barcelona seafront. Like the city, the UPC is constantly undergoing transformation, brings diverse elements together and is open to innovation and knowledge.

INTERNATIONAL NETWORKS

AUIP

Asociación Universitaria Iberoamericana de Postgrado

CASA

Consortium for Advanced Studies Abroad

CESAER

Conference of European Schools for Advanced Engineering Education and Research

CINDA

Centro Interuniversitario de Desarrollo

CLUSTER

Consortium Linking Universities of Science and Technology for Education and Research

EUA

European University Association

GUNI

Global University Network for Innovation

Magalhães

RedEmprendia

RMEI

Réseau Méditerranéen des Écoles d'Ingénieurs

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T.I.M.E.

Top Industrial Managers for Europe

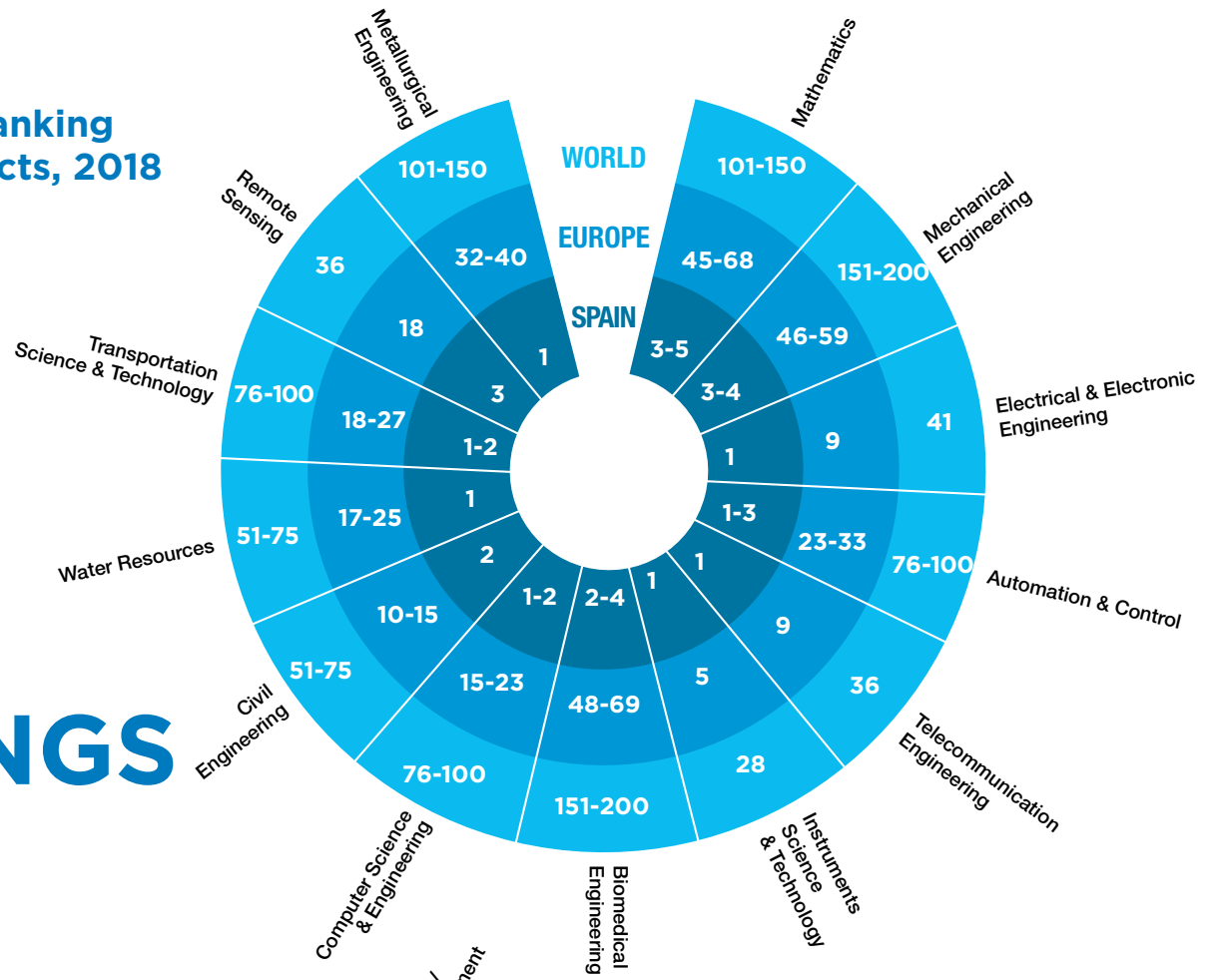
UNITECH

Universia



Shanghai Global Ranking of Academic Subjects, 2018

RANKINGS



QS World University Rankings by Subject, 2018

