

# Universitat Politécnica de Catalunya (UPC) BarcelonaTech

Universitat Politècnica de  
Catalunya (UPC) BarcelonaTech  
A public higher education  
institution for engineering,  
architecture, and applied  
sciences

Technology  
leading  
innovation,  
globally.

## TRAIN TALENT

With intellectual rigor, critical thinking, interdisciplinary, innovation and entrepreneurship, UPC BarcelonaTech trains people with professional competencies, abilities, skills and values to face, throughout their life, present and future challenges of our society.

It offers undergraduate degrees, master and PhD programs and continuing education courses in the following fields:

- Architecture
- Aeronautics
- Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Industrial Engineering
- Mathematics and Statistics
- Nautical Engineering
- Telecommunications Engineering

**In a highly creative and committed context, the research, teaching and management activity of UPC BarcelonaTech grows on excellence and social responsibility, based on the principles of freedom, justice, solidarity and sustainability.**

### Facts and Figures (2010-11)

- 29.000 students.
- 2.396 faculty and researchers (1.279 full time).
- 11 campuses in 8 cities.
- 68 graduate and undergraduate programs.
- 63 masters, of which 23 taught entirely in English.
- 43 PhD programs.
- 316 continuing education programs.

## RESEARCH TO INNOVATE

The educational and research-related activities of UPC BarcelonaTech have positioned the University as an agent and driver of economic and social progress. These activities advance the cause of research, generate knowledge and give a boost to innovation. Attracting talent and providing support for young researchers forms the core of another of the University's strategies for the future: to encourage young researchers to submit research and innovation proposals for competitive projects at either national or international level.

UPC BarcelonaTech hosts two among the 13 Campus of International Excellence granted by the Spanish Ministry of Education. Thus, UPC BarcelonaTech is poised to become southern Europe's leading education, innovation and research HUB. Together with the Universitat de Barcelona, it runs the Barcelona Knowledge Campus (BKC), a sum of 16 teaching centers, 90 departments and 15 libraries. UPC BarcelonaTech has consolidated its Campus of International Excellence with the project Campus Energia UPC, a consortium of leading universities which aims to help transform the energy sector towards a more sustainable model.

In addition, UPC BarcelonaTech leads, in collaboration with ESADE, the Iberian node of InnoEnergy, one of the three Knowledge and Innovation Communities (KIC) promoted by the European Institute of Innovation and Technology (EIT) in order to encourage innovation and impact on the European economy and society in the area of sustainable energy.

**The activity that takes place on its campuses consolidates UPC BarcelonaTech as an agent and engine of economic and social progress. It generates and transfers knowledge emphasizing its basic and applied research, supported with equipment and advanced scientific and technological infrastructures to serve research groups and centers as well as institutions and the productive sector.**

### Facts and Figures (2010-11)

- UPC BarcelonaTech is Spain's technical university with the highest number of international PhD students.
- Ranks as the seventh European institution with highest participation in the 7th Framework Programme of the European Union, participating in 27 projects and coordinating six of them.
- UPC BarcelonaTech ranks third in the specific Ibero-American Scimago Institutions Rankings World Report 2010 on Physical Sciences. It holds the 131th position out of 2277 in the world ranking. It has an excellent ratio of high quality publications and international collaboration in the fields of Chemistry, Environmental Science, Chemical Engineering, Materials Science, Physics and Astronomy, Energy, Earth and Planetary Sciences, Mathematics, Computer Science, and Engineering. Its research papers are cited 21% above world average. UPC BarcelonaTech is also Spain's university with the highest scientific production and citable papers in these fields.
- 1.850 research projects in progress and every year, about 1000 projects are initiated (50% in the industry and 50% internationals and nationals).
- Yearly, 3000 papers published in (indexed) scientific journals and 275 PhD theses defended.
- 20 company chairs.
- From 1999 to 2009, 57 spin-offs and 157 start-ups were created, 81% of which are still active.

## GLOBAL OUTREACH

Academic outreach is one of the University's strategic pillars. Renowned for its rigorous research and high-quality education, UPC BarcelonaTech leads international projects, collaborates with institutions all over the world, and offers a wide range of international double degrees at the undergraduate and master's degree levels.

Cooperation with emerging countries has become an integral part of the university's identity. UPC BarcelonaTech's 2010 Cooperation Plan spells out the university community's commitment to helping to reduce inequality among countries.

**As a leading member of international networks of excellence UPC BarcelonaTech maintains a privileged relationship with scientific and educational organizations all over the world, which promotes research collaboration and attraction of talent.**

### Facts and Figures (2010-11)

- UPC BarcelonaTech is the Spanish University with most international master (39%) and doctoral students (49,4%) and the European university with the largest participation in the Erasmus Mundus program. Each year, nearly 2,500 students from around the world choose UPC to complete their education, whether undergraduate, through the various calls for mobility programmes, or master and doctorate. Some 1,500 more are enrolling in continuing education courses.
- The first Spanish university to have signed agreements, through the China Scholarship Council, with the Chinese government.
- 95 international double-degree programs with 44 universities.
- 23 master degrees entirely taught in English.
- 102 development cooperation projects undertaken in 34 countries.

