



# MSc Energy for Smart Cities

Unique topic

Real-life context

Innovative and multi-disciplinary work

Innovation Journey





**MSc Energy for Smart Cities** attracts internationally-oriented engineering students with a strong desire to create secure, sustainable environments for end-users of the electrical value chain: citizens, companies and cities. Its graduates are well qualified for industrial, research or policy-making roles.

### Unique topic in sustainable energy and the urban environment

Unique topic for students who are interested in sustainable energy and socio-economic factors of the urban environment, as well as the electrical and thermo-mechanical aspects within Energy for Smart Cities.



### Real-life context

Strong cooperation with players that are active in Smart Cities environments, such as companies, municipalities and public organisations, features an in-company Master thesis, practical-hands on projects in courses and innovation competitions with external juries.



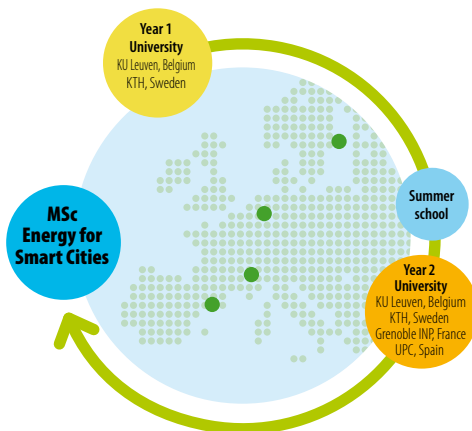
### Innovative and multi-disciplinary work

Thanks to the multi-disciplinary structure of the programme our graduates can integrate a broad diversity of solutions, create innovative solutions in inter-disciplinary City Energy ecosystems and foster entrepreneurship with innovative thinking.



## Second year specialisations

In the second year, you continue working towards writing a Master's thesis and attend elective courses; general, broadening and option-specific. To deepen your energy knowledge, MSc Energy for Smart Cities organises the Innovation Journey, a challenge-driven journey where you transform challenges in innovative proposals and build up market-feasible prototypes.



\*University for first and second year must be different.

## Involvement of industry

For the Innovation Journey, MSc Energy for Smart Cities works together with start-ups and innovative companies who provide challenges for the students.

## Added value activities

### Innovation Journey

This is a challenge-driven journey where students work in teams to transform challenges in innovative proposals and build up market-feasible prototypes. These technical and business challenges are delivered by start-ups and companies.

**Smart Cities Week.** The first stop on the Innovation Journey is the Smart Cities Week course in Barcelona where students are introduced to the innovation challenge.

During this week, they develop an innovation proposal, and present it to the companies. This is in parallel with the Smart City Expo World Congress.

**BIZ bootcamp.** The second stop is in Leuven when students will work on their business model based on elements of the value creation study.

**Summer school.** The journey ends in Amsterdam, where the innovative prototypes will be revealed. In this week, students focus on



innovation methodologies and apply the last finishing touches before the final competition round.

**Master thesis Forum & Awards.** In order to stimulate innovation and entrepreneurship among future game changers, MSc Energy for Smart Cities and KIC InnoEnergy Benelux award an annual prize for the best Master's thesis on innovation and the best on entrepreneurship.

# KIC InnoEnergy **Master School**



*Grenoble Institute of  
Technology, France*



*Royal Institute of  
Technology, Sweden*



*University of Leuven,  
Belgium*



*Universitat Politècnica de  
Catalunya, Spain*

## **Application details**

### **Programme specific requirements.**

A completed Bachelor's degree in Engineering, such as Electrical Engineering or Mechanical Engineering, or Science.

Within the Bachelor's education you must have received basic electrical and mechanical education.

A separate motivation letter in A4 format must be submitted.

### **Accreditation**

Having successfully completed the programme (120 ECTS), you will be awarded the Master of Science (MSc) as a double-degree from the two universities you have attended.

**Find out more on our website**

Application dates and student testimonials

[www.kic-innoenergy.com/smartcities](http://www.kic-innoenergy.com/smartcities)

