

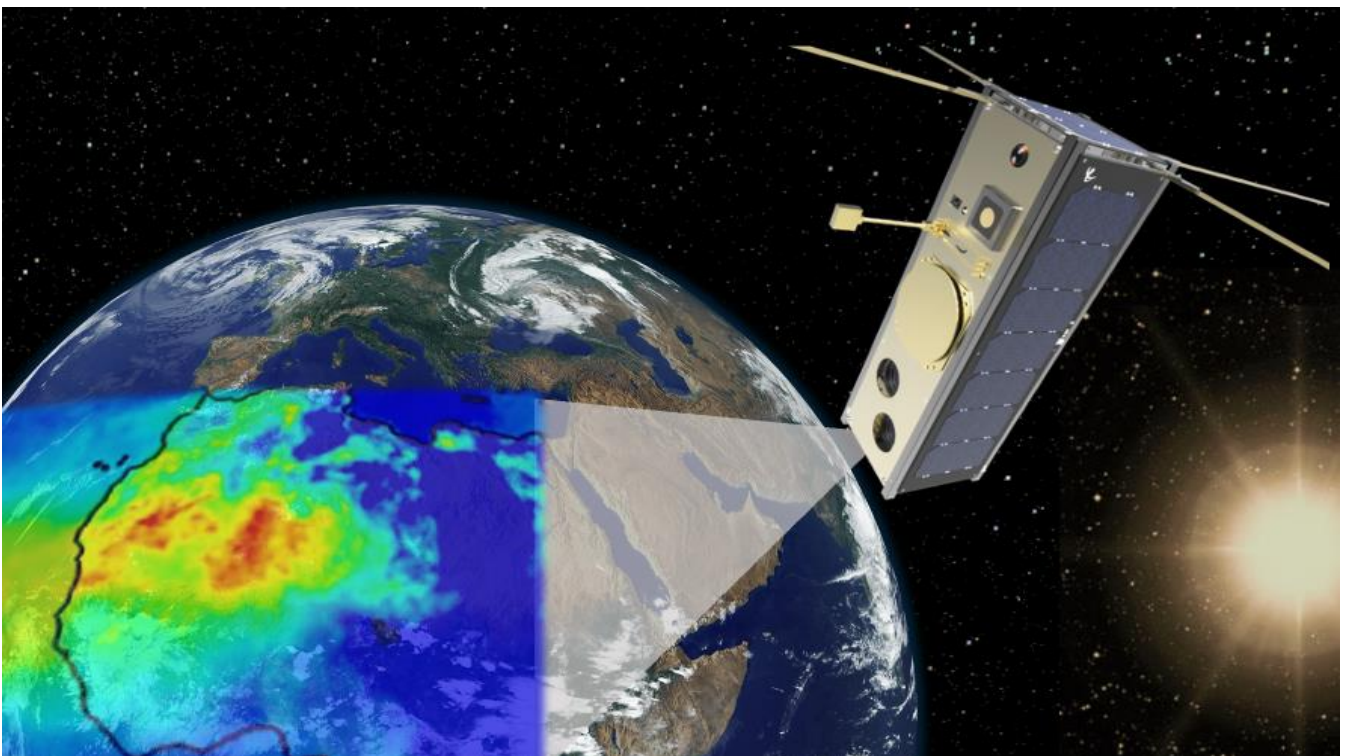


## New International JOINT MASTER'S DEGREE

# SATELLITE SYSTEMS AND APPLICATIONS

High-level training of skilled scientists and engineers in fields related to space sciences and technologies

- This is the **first joint French-South African Master's degree in Space Science and Technology**, the result of an international cooperation between the University of Paris East Creteil (UPEC) and the Cape Peninsula University of Technology (CPUT). It brings together the **internationally recognised expertise of UPEC in space science and CPUT in space technology**, from the development of nanosatellites launched into space to the use of satellite measurements for environmental and planetary sciences.
- This training is designed to lead to: (i) a PhD in science or engineering in research laboratories, or (ii) positions as research and development engineers, managers in industry and public laboratories, and teaching.
- It is linked nationally and internationally to numerous universities, institutes and industrial players through the **Space Academy of Ile-de-France** and the **French-South African Institute of Technology**.
- It consists of coursework and a Master's mini Thesis, **100 % in English language**, based on innovative **Collaborative Online International Learning** with two simultaneously linked classrooms at the two universities.



## Requirements for admission

- Bachelor of Science or equivalent in Physics, in Applied Mathematics and in Engineering Sciences
- Bachelor of Engineering, Bachelor of Engineering Technology (Honours) or Post Graduate Diploma in Electrical, Mechanical, Industrial, Mechatronics and Chemical Engineering

## Following career and jobs

- PhD thesis in a public or an industrial research laboratory
- Research and development engineer in industry or study/research engineer in the public sector
- Project Manager, Consultant, Manager
- Lecturer, Teacher

## Activity Sectors

- Earth, Environmental and Planetary Scientific Research
- Aerospace, space and telecommunications industry, in emerging and mid-sized companies and large industrial groups
- Space agencies
- Higher and secondary education

## Keywords

Satellite and space missions, conception and subsystems  
Engineering for space environment  
Management of space technology  
Signal and Image processing  
Remote sensing, Earth observation  
Spectroscopy, Astrophysics and Astrochemistry

## Application

<https://sciences-tech.u-pec.fr/formation/master-genie-industriel-parcours-international-systemes-satellites-et-applications>



## Heads of program

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## Training format

A 2-year Master's degree consisting of a Master 1 and a Master 2