

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

Activity Sectors

- Aerospace, space and telecommunications industry, in emerging, mid-sized and large industrial groups, Space agencies
- Research laboratories on Environmental, Earth, Planetary and Satellite Remote Sensing sciences and technologies
- Higher and secondary education

Training format

- A 2-year Master's program : Master 1 and Master 2
- Two classes, one at UPEC (France) and the other at CPUT (South Africa), remotely linked in hybrid collaborative learning
- 100% in English language

Heads of program

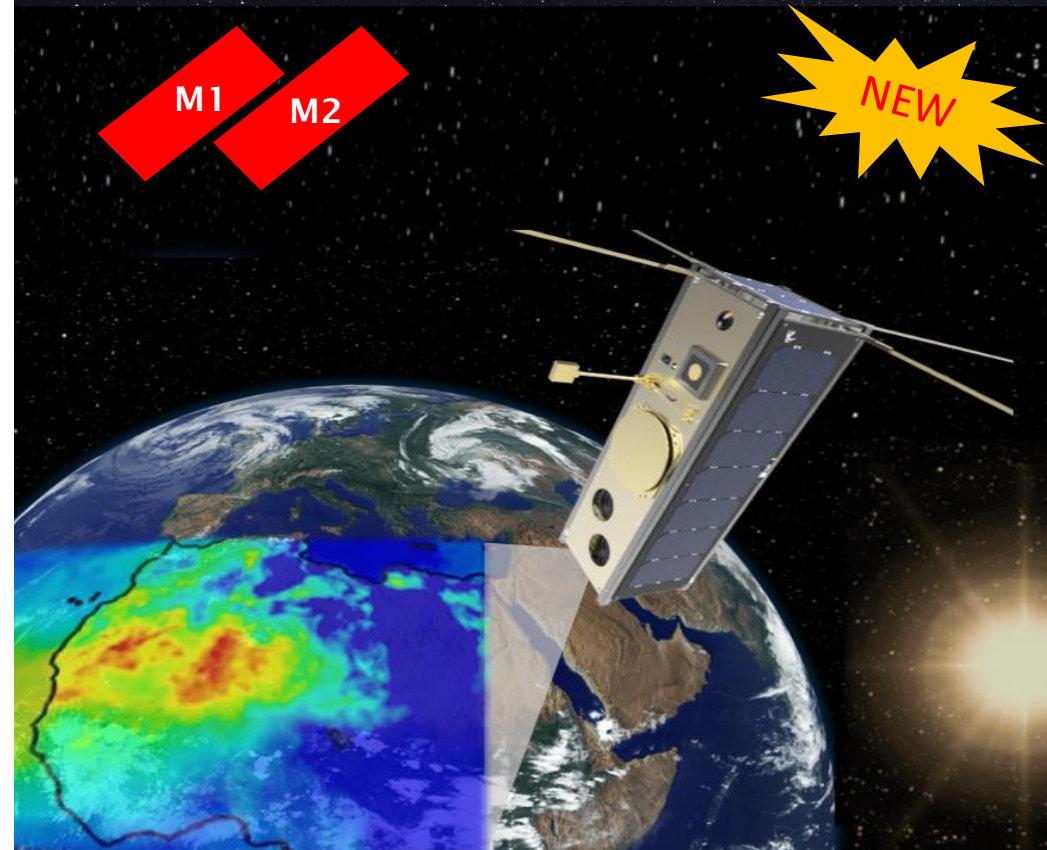
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Application and
more information :



INTERNATIONAL JOINT MASTER SATELLITE SYSTEMS AND APPLICATIONS



Based on innovative Collaborative Online International Learning with two simultaneously linked classrooms at the two universities.

INTERNATIONAL JOINT MASTER

SATELLITE SYSTEMS AND APPLICATIONS

Complete nine operational projects linked to the coursework over the two years of the Master's programme :

Build satellites and **space instruments** by yourselves, to send them into space

Design and **manage** space missions

Investigate the universe, its physics and chemistry, and the origin of life using space technology

Unveil insights of **Earth's climate and air pollution** with sensors on board satellites

Semester 1

Satellite Mission Analysis and Design
Satellite Subsystems
Image and Signal processing

Semester 3

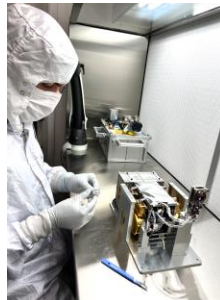
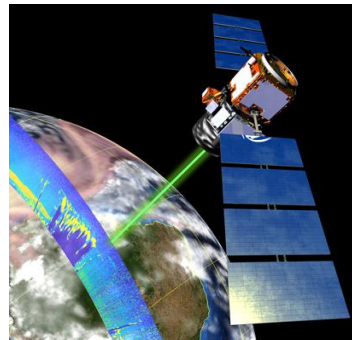
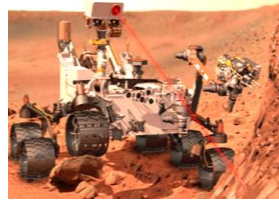
Molecular Spectroscopy for Remote Sensing
Remote Sensing of the Atmosphere
Astrophysics and Astrochemistry

Semester 4

Mini Thesis 2 (6 months)

Semester 2

Engineering for Space Environment
Management of Space Technology
Applications of Satellite Technology
Mini Thesis 1 (2 months)



Organization of the two-year Master's program:

- Due to the different academic schedules between South Africa and France, the first semester of the first year starts in January (N+1), but **applications and registration periods follow the French calendar** (May/June (N) to apply, September (N) at the latest to register).
- **Two internships will take place during the training**, one lasting two months in the first year of the Master (may take place between September and December (N), or between June and August (N+1)) and one lasting six months in the second year (from March (N+2)).
- Internship **mobility abroad** is allowed and encouraged.

Unique international Master's program on Space Science and Technology of France and South Africa: take advantage of a cooperation **on satellite internationally renowned expertise between the two continents.**



Discover the research laboratories LISA and LISSI, endorsing the Master's program.



Join the UPEC and CPUT space campus and their space technology programs.



By integrating the Master, join the Space Académie of Ile-de-France of 8 worldwide renowned universities and involve into plenty of space activities, including international mobility grants for joining the programme from a foreign country or for conducting internships abroad.