Université Paris-Saclay
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M2 Enjeux du Spatial et nouvelles Applications - Newspace

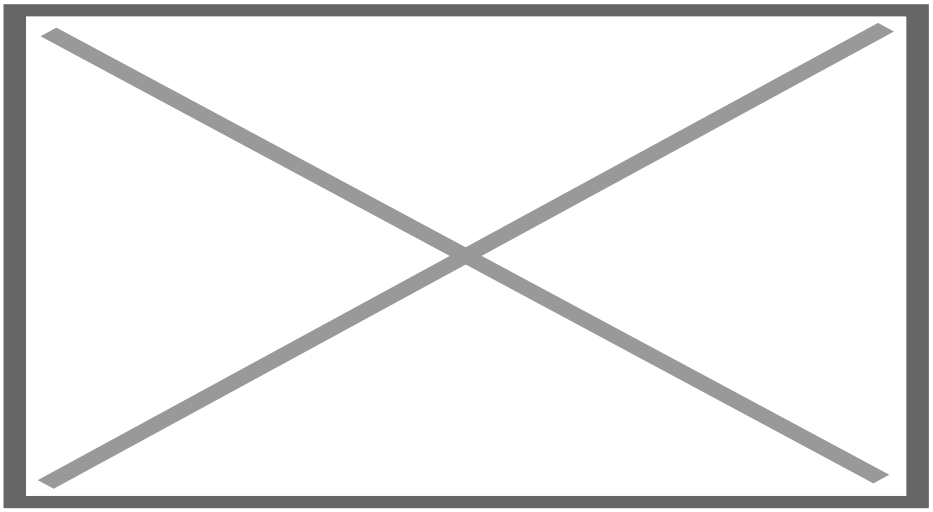
Master's degree
Specialisation Earth and Planetary Sciences, Environment (STePE)
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French

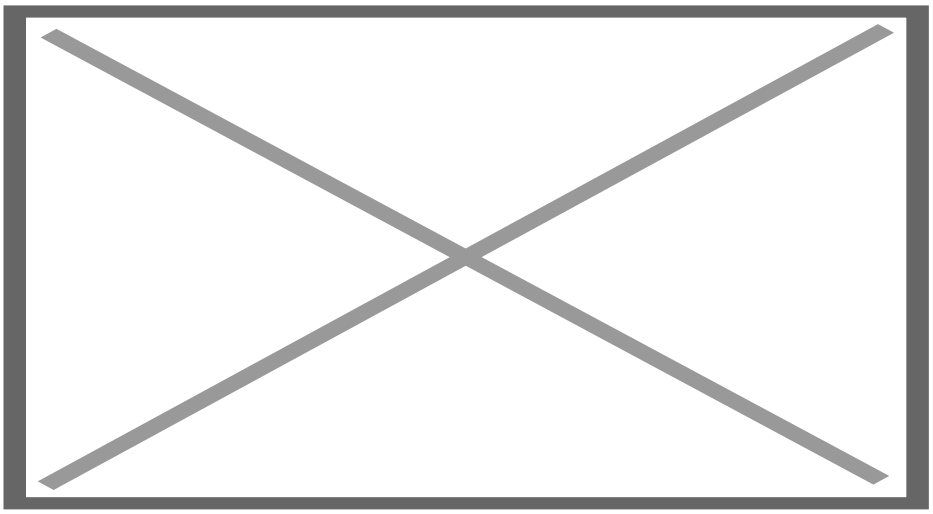
Working in the Space market is "not rocket science": develop your skills in innovative satellite design over a 1-year program to enter the Space Ecosystem! Discover the **"Master 2 Newspace"** program at Paris Saclay University.

Working in the Space market is "not rocket science": develop your skills in innovative satellite design over a 1-year program to enter the Space Ecosystem! Discover the **"Master 2 Newspace"** program at Paris Saclay University.

Develop in just 1 year cross-disciplinary skills in space mission, instrument and satellite design within a cutting-edge training program based on pedagogical innovation *(serious games, inverted classroom, multiple application modules)*, learning by doing *(hands-on labs, field-trips)* and by projects *(2 "project" teaching units)*, and the link to research *(Applied Research Thesis)*.

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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Accurately distinguish the different phases, stages, stakeholders, and challenges of a space mission within the framework of a scientific instrumental mission.

Design a space mission across all departments (payload, satellite platform, orbital mechanics, telecommunications, phases, projects, budgets, data analysis).

Design, manipulate, and pilot satellite subsystems during integration and qualification phases (AIT/AIV).

Develop complex project skills (technically complex projects, large teams, long duration, parallel projects) specifically in the space ecosystem.

Objectives

This programme stems from the STePE (Earth and Planetary Science, Environment) global Masters Programme. It aims to provide knowledge of the entire design process of a satellite, from the payload concept to the exploitation of data during flight in order to meet market demands and new professions linked to emerging applications (satellite miniaturization, Cubesats, satellite fleets, drones, etc.). This Masters programme is therefore strongly oriented towards the quality of observation and data by providing a better understanding of the emergence of instrumental concepts, AIT/AIV approaches (integration and testing), data analysis and validation of final products. It integrates phases of practical examples in the form of team projects tutored on concrete cases (Learning by doing), several serious games, and an internship in a company or laboratory. This training aims to meet the needs of the private sector and Space public research laboratories but can also lead to PhDs, ideally within the framework of CIFRE scholarships (public/private funding) due to the significant needs concerning innovation in this sector.

Débouchés

Career prospects

Design engineer in the industrial sector
Design engineer in the research / scientific sector
Design engineer industry / public research
Research & Development Engineer
Research Engineer
Design Engineer
Development engineer
Head of project/mission

Further Study Opportunities

PhD thesis
Specialised Master’s programmes (MBA in Project Management, Business, and Innovation Management in the Bio-industries)
Engineering, research and development
Head of project/mission

Admission

Capacity

Available Places

20

Target Audience and Entry Requirements

Master's degrees in Physics, Chemistry, Mathematics, Earth Sciences, Engineering, Geoinformation, Data Science, Computer Science/AI/ML.

All engineering backgrounds accepted.
We accept certain non-scientific profiles:

- returning to studies

- geography, communication, political science, defense and security, economics, business management, etc.

depending on the quality of the applications and the maturity of the professional project.

Période(s) de candidature

Inception Platform

From 15/01/2026 to 31/07/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Curriculum Vitae.

Additional supporting documents

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :
- Residence permit stating the country of residence of the first country

- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class	dis lea co
New Space	2	Semestre 1	12	12					
Charger le détail									
Projet Spatial Instrumental	3	Semestre 1	18	3					
Charger le détail									
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class
Conception Mission Spatiale Instrumentale	3	Semestre 1	8	18				
Charger le détail								
Activités AIT/AIV: Intégration et Essais	3	Semestre 1	26	8	4			
Charger le détail								
Développement de pièce Spatiale	4	Semestre 1	9	26				
Charger le détail								
Conception Satellite	3	Semestre 1	20					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Conception Instrumentale, Missions, Capteurs	3	Semestre 1	12	6	6				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Présentations des milieux (atmosphères, océans, surfaces) et moyens d'observations	3	Semestre 1	22	6.5	1			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Traitement et analyse de données instrumentales	4	Semestre 1	14		28			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Télécommunications / Réception de données / Data Management	3	Semestre 1	14	2	12			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learni cours
Stage	20	Semestre 2	5						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	dire study/p cl
Simulation immersive (SIMO/ CLIMACT/Hackathons)	2	Annualisé	0	21	0			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Approfondir le projet professionnel	2	Semestre 1		24				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	dire study/p cl
Charger le détail Thèse de Recherche Appliquée	2	Semestre 1	3					
Charger le détail CONCEPTO - Conception de Station Spatiale	3	Semestre 1		3				
Charger le détail								

Teaching Location(s)

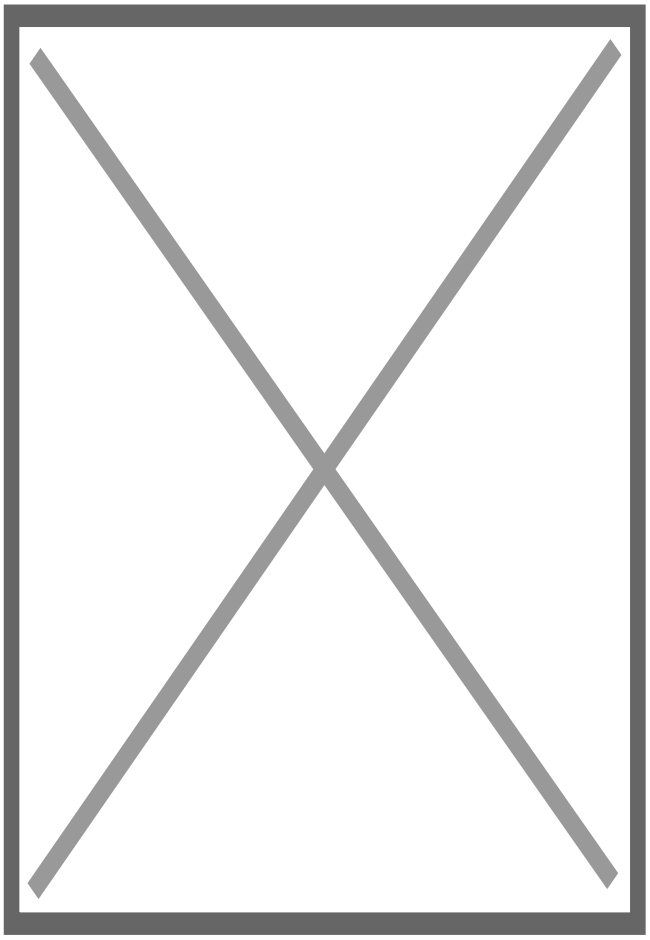
PARIS 05
GUYANCOURT
VERSAILLES

Academic Partner(s)

Académie SPatiale IDF https://academiespatiale.fr/

Training campus

Javascript est requis pour visualiser cette carte.



Saint-Quentin-en-Yvelines

Saint-Quentin-en-Yvelines
Bus 5103, 5150, 5198, 7807
RER C Saint-Quentin-en-Yvelines
Voir
Student restaurant (CROUS)
Student residence
Library

Contact

- **Thomas GARNIER**

  IR UVSQ - LATMOS

http://www.universite-paris-saclay.fr/formation/master/sciences-de-la-terre-et-des-planetes-environnement/m2-enjeux-du-spatial-et-nouvelles-applications-newspace