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M2 Eau Homme Milieu

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

The Master 2 Water, Human, Environment aims to train professionals who will be equipped to understand surface environments (rivers, soils, groundwater) in their entirety (critical zone principle), focusing in particular on the physical-chemical, hydrological, and biological interactions at their interfaces, all under the influence of increasing human activity and a changing climate.

The M2 Water, Human, Environment program has been designed to train high-level specialists in understanding the complex functioning of continental surface environments through approaches combining physical chemistry, hydrology, biogeochemistry, and geophysics. Ideally sized to follow on from the M1 Geosciences: Basins, Water, Soils, the first semester is dedicated to teaching, which takes various forms and aims to provide the latest skills required, as well as the scientific maturity and beyond that students will need at the end of their studies (see M2 model below). To this end, a significant proportion of supervised or independent projects have been introduced. The academic year ends with a field internship, applying all the technical and scientific skills learned during the year. Starting in February, students undertake internships in companies or research laboratories.

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image-nature
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image-stage-de-terrain-immersif-dans-la-plaine-de-la-crau
image-terre

Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Master and apply in-depth specialized knowledge of geosciences, particularly in the fields of water sciences, the physicochemistry of surface environments, and the assessment of anthropogenic impacts on the natural environment
- Mobilize methodological, technical, and practical skills useful for solving problems in geosciences, particularly in the context of critical water resources in environments marked by increasing and diverse human activities, all within the context of climate change.
- Conceptualize, structure, and lead a project in geosciences and conduct a critical analysis of the results.
- Learn and act independently. Develop the critical thinking skills expected of a Master's 2 student.
- Work in a team and collaborate to achieve common goals.
- Synthesize and communicate effectively in French and English in a manner appropriate to the target audience.

Objectives

The Master 2 Water, Human, Environment program aims to train high-level specialists in understanding the complex functioning of continental surface environments through approaches combining physical chemistry, hydrology, biogeochemistry, and geophysics. The integrative vision sought within this Master's program, which is quite innovative in the Paris region and France, will enable students to describe and interpret the effects of natural and anthropogenic forces on the evolution of these environments. This Master's program will also focus on the evolution of major biogeochemical cycles in the Anthropocene era. The water cycle and the quantification and qualification of water resources remain important topics covered in this M2 program. Particular emphasis will be placed on issues relating to the environmental management (particularly legal and regulatory) of these environments.

The career opportunities envisaged are:

- further study in a PhD program on topics such as water resources (qualification, quantification, or management), the physicochemistry of surface environments, the characterization of near-surface environments, major cycles (carbon or elemental), or the diagnosis, tracing, or remediation of contaminated or anthropized sites.

-recruitment by consulting firms in the fields of environmental management or consulting, water quality diagnosis or hydrology/hydrogeology, and polluted sites and soils.

-recruitment within water agencies, local authorities, or public industrial and commercial establishments (INRAe, BRGM).

Débouchés

Career prospects

After a Master's + PhD: researcher or lecturer
Environment / Biodiversity Officer
Environment / Biodiversity Project Manager
After a Master’s degree: Research analyst
chemical-environmental engineer
Research officer environment
Design engineer in the research / scientific sector
Project Manager / Researcher in biodiversity and sustainable development
Local Administration
Research & Development Engineer
Engineering firms specialising in environmental impact assessments
Laboratory Manager
Research professions
Health-environment engineer

Further Study Opportunities

PhD
Engineering, research and development
R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.

Calendar

Start of programme (indicative date)
07/09/2026
End of programme (indicative date)
07/09/2027
Admission

Admission Route

Physics, Chemistry
Earth Sciences
Life and Earth Sciences

Capacity

Available Places

15

Target Audience and Entry Requirements

The M2 EHM will welcome students with a solid background in fundamental sciences, particularly in geosciences, physics-chemistry, and/or data processing. Applications from students with a background in biogeochemistry, physical geography, or physics will also be considered.

The selection of candidates will take into account (1) degrees already obtained, which must demonstrate a solid foundation in Earth sciences, physics-chemistry, hydrogeology, or (bio)geochemistry, (2) excellent results, (3) strong motivation, and, if possible, (4) practical experience in a laboratory or company in the field.

Période(s) de candidature

Inception Platform

From 01/04/2026 to 15/06/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Les relevés de notes de l'année en cours sont obligatoires, même si ces relevés sont partielles et ne concernent que le premier semestre.

Certificate of French (compulsory for non-French speakers).

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Additional supporting documents

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

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

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 study	Lecture/practical class	directed study/practical class
Traceurs chimiques et isotopiques dans les eaux naturelles	3	Semestre 1	21	9				
Charger le détail								
Physicochimie des sols	3	Semestre 1	13.5	10.5				
Charger le détail								
Fonctionnement de la zone critique à l'Anthropocène	3	Semestre 1	24					
Charger le détail								
Hydrogéologie approfondie	3	Semestre 1	9	6	9			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Enseignements opérationnels obligatoires								
Stage de terrain "Zone critique"	3.5	Semestre 2			36			
Charger le détail								
Traitement de données en hydrosciences	3	Semestre 1	6		18			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Charger le détail								
Enseignement opérationnel à choisir								
Hydrogéophysique	3	Semestre 1	18	6	6			
Charger le détail								
Méthodes d’analyses pour les Sciences de la Terre et de l’Environnement	3	Semestre 1						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Enseignements transverses obligatoires								
Transferts dans les sols et la ZNS	3	Semestre 1						
Charger le détail								
Énergie, stockage, ressources et droit de l'environnement	3	Semestre 1						
Charger le détail								
Géochimie des enveloppes superficielles	3	Semestre 1	15	8				
Charger le détail								
Projet - Étude de cas	3	Semestre 1	3					
Charger le détail								
Enseignement transverse à choisir								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Ruissellement et érosion des sols : de la connaissance des mécanismes à la gestion in situ Charger le détail	2	Semestre 1	15	6				
Sites et sols pollués Charger le détail	2	Semestre 1	15	9				
UE libre Catalogue S1 Charger le détail	2.5	Semestre 1						

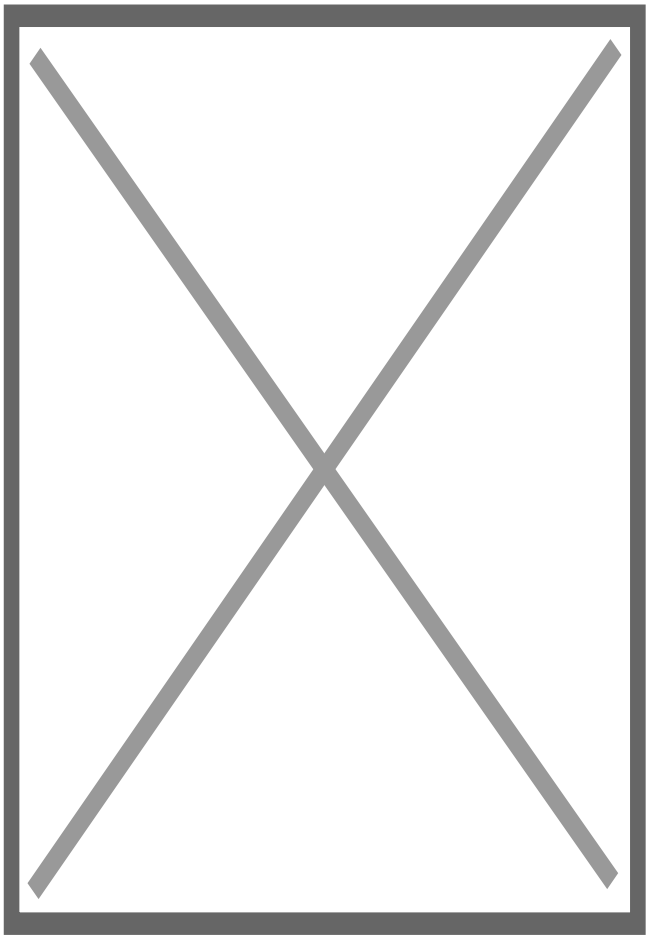
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Stage en entreprise ou en laboratoire de recherche Charger le détail	24.5	Semestre 2							

Teaching Location(s)

ORSAY
PARIS 05
PALAISEAU
THIVERVAL GRIGNON

Training campus

Javascript est requis pour visualiser cette carte.



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Student restaurant (CROUS)
Library
Sports facilities
Student residence

Contact

- **Damien Guinoiseau**

http://www.universite-paris-saclay.fr/formation/master/sciences-de-la-terre-et-des-planetes-environnement/m2-eau-homme-milieu