

SCIENCES, TECHNOLOGIES AND HEALTH

Research Intensive Track in Geosciences 1st year

Master in Earth, planetary and environmental sciences

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FCTS **Baccalaureate** 60 credits



Duration 1 year



Component **UFR PhITEM** (physique, ingénierie, terre, environnement, mécanique)



Presentation

Target level

+4

This path aims to train students in research on the basis of one of the other paths in the STPE master's program. It is aimed at students who already have professional experience or a very good academic level and who wish to continue their training with greater autonomy, by giving more important room to scientific research through an interneship in a laboratory. The objective is to acquire specialized knowledge through immersion in the academic or industrial research environment, which requires a great deal of autonomy and a certain degree of certainty about one's future professional project, the logical goal of this program being to continue with a doctoral thesis.

In concrete terms, each student chooses one of the STPE master's paths to which he or she will be attached. They will only follow a part of the UEs of this course corresponding to approximately 2 semesters (1st semester of M1 and M2 typically). The UE will be chosen according to the professional objective and in consultation with the persons in charge of the attached course. The other two semesters will be devoted to long internships (5 months) in a public or private research laboratory, on a subject relevant to the attached course.

The Atmosphere-Climate-Continental Landmass program primarily aims to train students through research into the functioning of the climate system and atmosphere in interaction with continental hydrosystems. The training is

broad and multidisciplinary, because the problems addressed (climate change ; air quality ; evolution of continental hydrosystems) are complex and require coupled approaches. Continuing on to doctoral studies is a natural goal of this program.

Environmental monitoring and forecasting require welltrained managerial staff. Air quality monitoring associations, consulting engineers and experts, local authorities, administrations and companies all have an interest in the use of new tools for environmental measurement, monitoring and forecasting. It should be emphasised that these potential opportunities are in addition to the pursuit of doctoral studies for the students.

International education Internationally-oriented • programmes

International dimension

The program has a strong international focus, with teaching mostly in English and research internship opportunities abroad. Several foreign students are welcomed onto the program every year, often as part of research agreements with our international partners.

Research internships may be held abroad.



Organisation

Abroad intership : In France or abroad

Admission

Access conditions

- The 1st year is open to students who have obtained a national diploma equivalent to a bachelor degree (licence) in a field compatible with that of the master, or via a validation of their studies or experience
- Entry to the 2nd year may be selective. It is open to candidates who have completed the first year of a Master in the field, subject to a review of their application

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, you can undertake a 🖸 validation of personal and professional achievements (VAPP)

Candidature / Application

You want to apply and sign up for a master ? Please be aware that the procedure differs depending on the diploma you want to take, the diploma you have already obtained and, for foreign students, your place of residence.Let us be your guide – simply follow this **C** link

Target

• Students in initial training who have obtained a bachelor degree (licence) in Earth, physical, or mechanical sciences

- Students from engineering schools (in particular ENSE3, G-INP) who seek studies in more "research" oriented topics concerning the atmosphere, the climate and hydrosystems
- Foreign students wishing to pursue their studies in the fields of the atmosphere, the climate and hydrosystems
- Students in continuing education wishing to pursue advanced studies in the fields of the atmosphere, the climate and hydrosystems

Prerequisites

- Natural candidates for this course include students with bachelor degrees (licence) in Earth Sciences, especially if their studies included a fairly large physics component
- However, due to the highly multidisciplinary nature of the course, it is also perfectly suited to students with bachelors in physics, mechanics, physics-chemistry, and even chemistry
- A small but non-negligible number of students come from engineering schools, seeking studies in more "research" oriented topics

And after

Further studies

Doctoral thesis, in the field of Earth, planetary and environmental sciences

Study abroad

Doctorate in a foreign university

Reorientation

A reorientation to the Hydro-resources program is possible up to the end of the 1st year. A reorientation to the international





Hydrohazards program is also possible, at the end of the semester 7.

Sector(s)

- Competitive examinations for careers in research (researchers), education-research (teacher-researcher) (CNRS, University, CNAP, IRD and research organisations abroad) after pursuing doctoral studies
- Whether or not students go on to doctoral studies, the professions targeted by this program concern environmental monitoring and forecasting in varied contexts (air quality monitoring associations, local authorities, consulting companies)

Useful info

Contacts

Program director

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Program director

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Program administration

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Program administration

Application
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Continuing education manager Laura DI RUZZA St-phitem@univ-grenoble-alpes.fr

Partner laboratories

Laboratoire de Glaciologie et Géophysique de l'Environnement - LGGE

Laboratoire d'étude des Transferts en Hydrologie et Environnement - LTHE http://www.lthe.fr/LTHE/

Centre d'Etudes de la Neige - CEN http://www.cnrm-game.fr/spip.php?rubrique85

Irstea - Centre de Grenoble

Course location(s) - City

Grenoble

Campus

Grenoble - University campus





Program

Specifics of the program

Program under construction - awaiting CFVU vote

Master 1st year

Semester 7

Semester 8

