

Master in Mechanics

Environmental fluid mechanics 2nd year

Presentation

The Environmental fluid mechanics program is structured as follows :

- A foundation program (over 1st + 2nd years) of 51 ECTS - including 2 x 3 ECTS in a modern language
- Specific modules (39 ECTS)
- A 5-month internship (30 ECTS) in a research laboratory

The program is open to international students. All teaching is in English.

The main aim of this program is to train managers with solid scientific and technical skills in environmental fluid mechanics (lakes, rivers, ocean, atmosphere etc) from theoretical, numerical and experimental perspectives.

For more information : <http://master-efm.legi.grenoble-inp.fr>

Registration and scholarships

- For the first year : holders of a general scientific degree with a specialisation in mechanics, or equivalent diploma
- For the second year : students who have completed the first year of a compatible programme or one of equivalent level

For candidates whose country of residence is not included in the "Studies in France" portal (PEF) scheme, the calendar for the eCandidat application campaigns is available [here](#)

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 a formation under the regime formation continues one of the 2 preceding 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 \(VAPP\)](#)

Would you like to apply and register ? Be aware that the procedure differs depending on the diploma, the degree obtained, or the place of residence for foreign students. Let us guide you simply by following this [link](#)

Practicals informations :

- > Component : UFR PhITEM (physique, ingénierie, terre, environnement, mécanique)
- > level : Bacalaureate +5
- > Duration : 1 year
- > Course type : Initial and Continuing Education
- > Location(s) : Grenoble - University campus

Contacts

Program director

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Program administration

Registrar's Office for the Master in Mechanics
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Continuing education manager

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Program

Master 2nd year

Semester 9

UE Turbulence, diffusion and transport 6 ECTS

UE Scientific computing 3 ECTS

1 option(s) to choose from 3

UE English 3 ECTS

UE Transversal teaching of choice 3 ECTS

UE French as a foreign language - Semester 9 3 ECTS

6 option(s) to choose from 12

UE Signal and information processing in fluid mechanics 3 ECTS

UE Atmospheric boundary layer : from fundamentals to air quality 1 3 ECTS

UE Atmospheric boundary layer : from fundamentals to air quality 2 3 ECTS

UE Exchanges across air-water interface 3 ECTS

UE Renewable marine energy 3 ECTS

UE Ocean dynamics 3 ECTS

UE Wave dynamics 3 ECTS

UE Sediment transport 3 ECTS

UE Flow measurement science and technology 3 ECTS

UE Data assimilation 3 ECTS

UE Machine learning for environmental sciences 3 ECTS

UE in another program or specialisation

Semester 10

UE Stage (Internship) 30 ECTS
