

## Master in Civil engineering

# Hydraulics, Civil and Environmental Engineering 2nd year

## Presentation

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Master in Hydraulics, Civil and Environmental Engineering (HCEE)

Created in 2011, the international Master program in Hydraulics, Civil and Environmental Engineering at Grenoble INP-UGA is one of the most widely recognized programs in the fields of hydraulics, mechanical engineering and civil engineering, in connection with new environmental challenges. It enables students to acquire the scientific knowledge needed to develop projects to preserve, anticipate and manage water resources, while at the same time giving them the keys to designing civil engineering structures in connection with hydraulics and the natural risks exacerbated by climate change. This dual expertise in 'hydrology' and 'structural design/analysis' is what makes this Master's programme unique.

## Registration and scholarships

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### Access conditions

For the M2

Students who have successfully completed the M1 HCEE are automatically admitted to the Master 2 program. Applicants from another subject area, from another program in the subject area or from another higher education institution must apply for admission.

You can apply for M2 if you have a 4- or 5-year bachelor's degree, a master's degree or an engineering degree related to hydraulics, geomechanics and/or environment.

Capacity : 25 places (100 applicants each year)

[skin.odf-uga:SKIN\\_ODF\\_CONTENT\\_PROGRAM\\_CANDIDATURE\\_LABEL](#)

Applications can be made via the following website:

[Application website](#)

Recruitment campaign :

- Recruitment opening date: 15 October 2024
- Closing date: 15 May 2024
- Start date of the Master's degree in 2025: September 2025

Selection in two stages:

- application
- 30-minute interview by videoconference

### Expenses

[Master in Hydraulic and Civil Engineering - Grenoble INP - Ense3, UGA \(grenoble-inp.fr\)](#)

## Practicals informations :

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- > Component : Grenoble INP - Ense3 (Energie, eau, environnement), UGA

- > level : Baccalauréate +4
- > Duration : 1 year
- > Course type : Initial and Continuing Education
- > Location(s) : Grenoble - University campus

## Contacts

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### Program director

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### Administrative contact

Secrétariat scolarité master HCEE  
international.ense3@grenoble-inp.fr

## Program

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### Second-year course topics (M2 HCEE)

- River dynamics
- Flood propagation and mitigation
- French as foreign Language
- Professional skill support
- 2 optional modules among 6
  - Water quality and treatment
  - Water management in a non stationary environment
  - Asset Management for civil engineering works and networks
  - Hydraulique maritime et hydraulique urbaine
  - Advance Simulation tools for mechanics
  - Natural hazards and soil improvements