Master in Health engineering

The programme offers the following course(s):

- Science and management of biotechnologies 1st year
- Drug sciences and pharmaceutical engineering 1st year
- Health methods and technologies 1st year
- Health double curriculum 1st year
- Science and management of biotechnologies: biopharmaceuticals 2nd year
- Science and management of biotechnologies: cell and gene therapy, tissue engineering 2nd year
- Science and management of biotechnologies: biomarkers - in vitro diagnosis 2nd year
- Industrial pharmacy formulation processes production 2nd year
- Quality control, quality assurance, validation methods 2nd year
- Drug design and pharmacological innovation 2nd year
- Environment, health, toxicology and ecotoxicology research methods 2nd year
- Methods for the design and management of clinical research projects 2nd year
- Models, technological innovation, imaging 2nd year
- Medical physics 2nd year
- Radioprotection 2nd year
- Health education methods 2nd year
- BioHealth engineering 2nd year

Presentation

The “Health Engineering” Masters were created in 2003 and are organised by the Faculties of Medicine and Pharmacy in Grenoble. Previously accommodating a hundred students at M2 level, this course now has more than 350 students shared between both the M1 + M2 offer. At a time when multidisciplinarity is considered one of the driving forces of progress in the health sector, this Master is a place for young scientists (biology, chemistry, physics, etc.), doctors, pharmacists, engineers, radiographers, veterinarians or midwives to meet. Local, national or international partnerships, strong connections with the working environment and good integration numbers for graduates all explain the attraction observed over the last few years, with, for example, nearly 50% of our M2 students coming from M1 courses other than the Health Engineering course.

The teams managing this course come from a community of teacher-researchers and researchers who practice their research activities within laboratories associated with the CNRS, or the CEA or INSERM and within departments of the Grenoble University hospital (CHU). The subjects, tasks and work placements offered to the students vary from learning about the most fundamental notions to the development of applications that are immediately useable in clinical practice or in public health. Solutions are based on the most recent tools and findings in mathematics, physics, computer science or biology.

All curricula require a strong collaboration between the health departments and the teams from scientific and technical disciplines and involve many industrialists.

Objectives

The IS Master’s degree contains 13 2nd-year Master’s courses in the fields of medtech, pharmacy, biotechnology and environment-health relations. These courses provide access to occupations which meet
society's needs both in fundamental research and in clinical research and the development of industrial applications. The occupations carried out by our graduates are not limited to research and development as our students are also trained, depending on their chosen course, in quality, regulations, industrial property and even management.

**Registration and scholarships**

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).

**Practicals informations :**

> **School :** UFR Médecine, UFR Pharmacie  
> **Level :** Baccalaureate +5  
> **Duration :** 2 years  
> **Credits :** 120  
> **Course type :** Initial and Continuing Education  
> **Location(s) :** Grenoble - La Tronche domaine de la Merci  
> **Contacts :**  

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**Programme administration**
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