

Master in Nanosciences and nanotechnologies

Nanomedicine and structural biology

Presentation

This program is available in the form of work-linked training in the second year of the master. Students can enter the master 2nd year from the master Nanochemistry or Nanophysics programmes of the Nanosciences and nanotechnologies specialisation 1st year. It is also accessible via various 1st year programs offered by the chemistry and physics training & research units (UFRs).

The program is structured as follows :

- A foundation program of 12 ECTS, including 3 ECTS in a modern language
- Specific modules (24 ECTS)
- Work-linked training (24 ECTS)

Objectives

The main aim of this program is to train managers with solid scientific and technical skills in the field of engineering and characterisation of micro- and nanostructures, as well as surfaces.

This track aims to prepare students for the challenges and innovations that are emerging at the border medicine nanoscience, including exploiting nanotechnology and nanomaterials for medical imaging and therapeutics. It also aims to train students to research in structural biology, a strong pole in Grenoble environment with the presence of large instruments and the European Molecular Biology Laboratory EMBL.

Registration and scholarships

- Master 2nd year Basics in molecular and cellular biology, in physics of semi-conductors, in NMR, in optics and electromagnetism are required. Also, the candidate should prove sufficient english level (CEFR (B2), TOEFL (IBT 87-109), IELTS (5.5-6.5), TOEIC (785-945) or equivalent)
- Engineer / Master dual degree accessible to Phelma engineering degree students who have validated the 2nd year of Biomedical engineering field of study

Direct procedure : the student should subscribe on line

Further studies

This program offers career opportunities such as research & development engineer in public or private research organisations, as well as in various companies involved in activities ranging from materials preparation through to micro-electronics and renewable energies.

Practicals informations :

- > **School** : Grenoble INP, Institut d'ingénierie et de management
- > **Duration** : 2 years
- > **Course type** : Initial and Continuing Education
- > **Location(s)** : Grenoble - University campus

> **Contacts :**

Programme director

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Programme administration

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