

Soft Nano

International master program in soft nanoscience

Master in nanoscience and nanotechnologies,
Grenoble, France

The master program Soft-Nano is focused on soft and complex micro-nano-systems whose self-organization capabilities, fluctuating dynamics, and sometimes active properties, lead to specific and surprising effects at the nanoscale. This track provides a broad expertise in fundamental physics, mechanics, chemistry, and surfaces science as well as experimental skills with top-equipment and cutting-edge techniques for the characterization of soft nanostructures, still emphasizing the importance of numerical and modelling tools. It prepares as well to a career in fundamental research or R&D departments of industries. The broad scientific scope is appreciated in a wide range of industrial domains as for example innovation in material science, bio-inspired processes or new energies.

Core courses master2 :

Out-of-equilibrium Statistical physics
Complex fluids
Large scale facilities for Soft Matter
Adhesion, friction, nanomechanics

Elective courses:

Nanopores and membrane technology
Active matter
Fundamentals of structural biology
Physics of biological systems
Thematic school in Soft Condensed Matter
Nanosafety

Machine statistical learning
Discrete and continuous modelling

Micro-Nano Fabrication
Advanced characterization
Research Training
European School of Nanosciences ESONN

5 months research internship in top-level
laboratory of Grenoble or elsewhere

An exceptional formation through research

In M1, perform a part-time
Research Internship
in parallel to courses
(equivalent 5 months, 18 ECTS)

An exceptional formation in
Nanosciences
in M2, follow the **European School
in Nanosciences and
Nanotechnologies ESONN**

**Program of the
UGA Graduate
School**
Scholarships
available

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