



What is Soft Nano?

The Graduate School program Soft-Nanosciences gathers 15 research labs and 6 master programs in the fields of soft matter, biophysics, chemistry and applied mechanics, to set up an innovative research-driven curriculum. Students should first be enrolled in one of the Master programs listed below.

In addition to the Master's curricula, the Graduate School program offers a selective training of excellence through research. Our program covers the wide spectrum of soft nanosciences.

MASTER PROGRAMS

Nanobiotechnologies

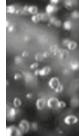
Nanochemistry

Soft Nanosciences

Nanomedecine

Environmental fluid Mechanics

Polymers for Advanced Technologies



Bubble nucleation in thin layers of polymers. (E. Lorenceau, LIPhy)

Every master student belongs to a laboratory and performs a **2-year-long research work** under the auidance of a research director.

INTERNATIONAL POSITIONING

- International recruitment forum at the Bachelor's level.
- ➤ All courses in English.
- Double-degree programs,
- Participation to the European school ESONN included in the master curriculum.

More information

www.esonn.fr

Training through and for research

A FIRST PROFESSIONAL EXPERIENCE

The Graduate School program Soft Nanoscience provides students with the opportunity to be immersed in a highly demanding scientific environment where the innovation of the future is in gestation. It also gives students a first professional experience. From the beginning of their master, students become a member of a laboratory or research institute, take a full part to the life of the lab according to their time of presence, have access to high-tech facilities after having received appropriate training.

A FORMATION FOR RESEARCH

The training through research covers all aspects of leading a project. In the fall semester of the 1st year students are trained to write and to defend a research proposal. They devote to this activity up to 2 days a week, confronting their progress with other students in regular meeting of the whole group (Research Methodology).

Students develop their research project during the three subsequent semesters, in parallel to course work, or full time. At the end of the 2nd year, they are evaluated through the submission and defense of a Master Thesis.

Cytoskeleton Self-organization (L. Blanchoin, Cytomorpholab/LPCV/IRIG)



Admission & Curriculum

The Graduate School Soft Nano is fully appropriate to students having completed a 4-years Bachelor's of science or engineering in physics, physico-chemistry, mechanics, chemical engineering. Three-year's Bachelors who have excellent academic results can also be admitted to the GS Soft Nano.

Admission to the Graduate School Soft Nano requires:

- Academic admission in an M1 major (M1 Applied Mechanics, M1 Nanochemistry, M1 Soft Matter and Biophysics, Phelma Biomedical Engineering 2nd year)
- A favorable evaluation by the program admission commission
- Admission in a research team participating to the program.

SCHOLARSHIPS

The Graduate School of UGA offers Master scholarships on a competitive basis to students who have obtained their high-school degree outside from France and are enrolled in one of the Thematic Program of the GS.

INTERNSHIPS

During their research internship students receive a stipend of an amount set by the French law.

HOW TO APPLY

Study in France by applying for no EU

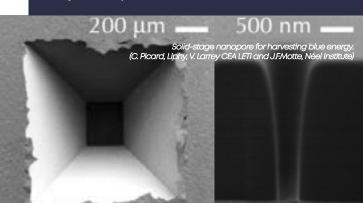
tinyurl.com/24bjphy4

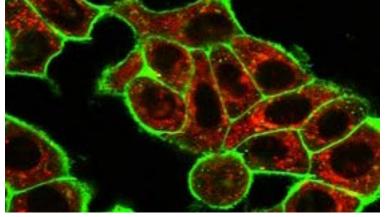
Apply via ecandidat for EU students

ecandidat.univ-grenoble-alpes.fr

Apply to Graduate schools scholarships

tinyurl.com/2p8shnev





Confined nucleation and growth of molecular nanocrystals for biophotonics: fluorescence imaging and photodynamic therapy. (X. Catton,, F. Dubois and A. Ibanez, Néel Institute)

In parallel to the compulsory courses of their respective master, students undertake their research project related to soft and complex matter at the nanoscale. They validate the Soft Nanoscience Thematic Program modules:

- Research Methodology 6 ECTS / 1st year 1st semester
- Graduate School Soft Nano internship 12 ECTS / 1st year 2nd semester
- European School on Nanosciences and Nanotechnologies (ESONN part B) 6 ECTS / 2nd year 1st semester
- Master thesis 30 ECTS / 2nd year 2nd semester

A significant amount of time is devoted to these research credits (from 2 days a week to full time). As a consequence students in the Soft Nanosciences program take less elective courses than in the standard master curriculum.

At the end of the 2nd year, **students obtain a Master degree** in one of the 6 specialities Nanobiotechnologies: Nanochemistry, Soft Nanosciences, Nanomedecine, Environmental Fluid Mechanics, Polymers for Advanced Technologies.

They can **pursue in PhD** in the Doctoral School of Physics, Chemistry and Life Sciences, or IMEP2 (Industrial, Materials, Mechanics, and Process Engineering) of the UGA, or they can choose to quit the Graduate School at the level of the Master and pursue a professional life and/or a PhD in another university or abroad.

LABORATORIES (UGA, CNRS, CEA)

Néel Institute

CFRMAV

IAB Advanced Biosciences

LEPMI

LIPhy Interdisciplinary Physics

LMGP Materials Physics Eng.

LNCMI High Magnetic Fields

LRP Rheology and Processes

LTM

Pulp & Paper Science LGP2 Soils Solids Structures Risks

TIMC-IMAG

Biotech for Health Lab.

Symmes

EUROPEAN FACILITIES

Laue-Langevin Institute (ILL) European Synchrotron Radiation Facility (ESRF)



Cell Capture at a Blood Vessel Wall. (M. Tilquin, Tec21,

Soft-Nano is part of the GS@UGA project supported by the French National Research Agency (ANR-20-SFRI-0007) under the "Investissements d'avenir" programme.

