From January to March, three month courses in micro- and nanotechnology including different laboratory courses (AFM, STM, Microfluids...), a 1 week hands-on training in clean room conditions and a personal project in cooperation with an industrial partner.

COURSES

With the participation of industrial partners: Arkema, BASF, Merck, Rhodia, Thalès...

MODULE 1 [76H]
FABRICATION TECHNIQUES AND CHARACTERIZATION
- Near-field scanning techniques
- Characterization techniques
- High-resolution spectroscopy
- Nano- and microfabrication techniques
- Engineering of surfaces and interfaces
- Nanobiotechnologies

MODULE 2 [62H]
NANO-OBJECTS AND AUTO-ORGANISATION
- Inorganic, polymer and metal nanoparticles
- Nanotubes and nanofibres
- Nanstructured materials and applications
- Toxicology of nanomaterials and nanotechnologies

MODULE 3 [78H]
APPLICATIONS
- Micro-and nanofluids
- Analytical nanosystems
- Sensors and microsystems
- Nanophonics
- Organics electronics
- Lab course on microfabrication and clean room technology

CALENDAR

INTERNATIONAL STUDENTS START WITH A 3 MONTHS INTERNSHIP IN ONE OF THE ACADEMIC PARTNER LABORATORIES.

French lessons

January to March
3 months courses

April to August
5 months internship

PRICE: 7 300€

APPLY ONLINE AT enschp.bordeaux-inp.fr
The Master of Science « Applied Formulation of Polymers and Colloids », delivered by Bordeaux INP, is fully in English and has been established by ENSCBP - Bordeaux INP as an answer to the rapid evolution on today’s needs in industry and academics, allowing the students to adapt efficiently to the most recent technological innovations. It is based on the well-established know-how of ENSCBP - Bordeaux INP and its partner laboratories concerning topics at the interface between Chemistry, Physics and Biology. ENSCBP - Bordeaux INP is one of the 7 graduate schools of Bordeaux INP.

KEY FIGURES

5 engineering training courses (Master)
- Chemistry - Physics
- Food Science
- Materials Engineering
- Structural Analysis of Composite Materials
- Food Production

3 Masters of Science
- Applied Formulation of Polymers and Colloids
- Inorganic Materials Design and Processing
- Micro- and Nanotechnology

8 joint research centers in the following fields: Chemistry, physics, Nutrition, Neuroscience, Oenology, Polymer, Condensed Matter, Molecular Science, Materials & System Integration, Nano Objects

64 academics and researchers

100 PhD, post-docs

2 industrial chairs
- Nanostructured materials based on carbon nanotubes or block co-polymers
- Valorization of Maritime Pine chemistry

2629m² dedicated to technology transfer activities

75% graduate students
with international experience

10% international students

Involved in several international programs: ERASMUS+, FITEC...