From January to March, three month courses in Macromolecular Engineering and Formulation, including experimental training and a personal project in cooperation with an industrial partner.

COURSES

With the participation of industrial partners: Arkema, BASF, Dow Corning, L’Oréal, Michelin...

MODULE 1 [67H]  
FORMULATION: BASIC CONCEPT AND TOOLS
- FORMULATION: PRINCIPLES AND APPLICATIONS
- POLYMERS AND SURFACANTS IN SOLUTION
- POLYMERS AND SURFACANTS AT Interfaces
- SUSTAINABLE CHEMISTRY, ECODESIGN

Applications in: Cosmetics, Detergency, Building materials...

MODULE 2 - [71H]  
NANO- AND MESO-ORGANIZATION IN SOFT MATTER
- CONTROLLED POLYMERIZATIONS
- SELF-ASSEMBLING
- LATEX AND PARTICLES
- FOAMS AND EMULSIONS
- HYBRID MATERIALS AND NANOCOMPOSITES

Applications in: Coatings, Nanomedicine, Biomaterials...

MODULE 3 - [72H]  
CHARACTERIZATIONS OF FORMULATED SYSTEMS
- IMAGING TECHNIQUES
- SPECTROSCOPY
- CHROMATOGRAPHY
- RHEOLOGY
- WAVE SCATTERING

Applications in: Polymer materials, Adhesives, Paints...

CALENDAR

September to November  
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

- **International relations**
  - 75% graduate students with international experience
  - 10% international students

**PROGRAMS**

- **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**

**CONTACT**

International Relations Office
+33 (0)5 40 00 66 94
international@enscbp.fr

BORDEAUX-INP.FR/EN

ENSCBP - Bordeaux INP
Graduate School of Chemistry, Biology and Physics