Program Outline
The EUREkA Graduate Program, which is fully customizable, focuses on general scientific objectives that favor an interdisciplinary and rational research approach. These scientific objectives are based on the function–through–structure materials design, which includes: (i) the control of complexity, (ii) the rational design and (iii) the instrumental control over (nano)structures of tailored-made materials. This approach is implemented via three specific educational and research axes which are:

› Advanced Functional Polymer Materials
› Advanced Functional Inorganic Materials
› Advanced Functional Hybrid & Colloidal Materials

Admission Requirements
Candidates must hold a Bachelor degree with honors or 4-year/240 ECTS equivalent in chemistry and/or physics with a focus on materials science.

Academic Cooperation
Collaboration with over ten international universities:

› Brazil: Universidade Federal do ABC
› Lebanon: Lebanese University
› Japan: University of Kyoto, University of Tsukuba
› Spain: University of the Basque Country
› Switzerland: École polytechnique fédérale de Lausanne
› USA: Duke University, University of California – Los Angeles, University of Cincinnati, University of Massachusetts, University of Nebraska
› Etc.

Program duration
2 years (132 ECTS).

Language Requirements
Program taught entirely in English, a B2 level according to the CEFR is required.

Fees and scholarships
› Annual registration fees for all selected applicants are calculated according to the rules and regulations of the University of Bordeaux (approximately 400€).
› Scholarships may be granted to selected applicants on demand.

Strengths
› Students develop skills based on the large range of materials topics studied in the University of Bordeaux campus laboratory: inorganic materials, colloids and polymers.
› Students work within campus laboratories for two internships during the 2 years (4 and 6 months full time). In addition to the campus laboratories, other academic (collaborations with more than 10 international universities) and industrial (more than 15 partners) laboratories are proposed.
› The customizable program favors optimum personal development for each student.
› A mentoring procedure provides strong academic and professional guidance over the 2 years.
› Students participate in a summer school where they may meet professors and students from abroad.
› Each semester, some courses (15 to 30%) are taught by international professors.
› The University of Bordeaux has been identified as a Campus of Excellence within the field of Materials.
Year 1

Semester 1
- Chemical bonding (6 ECTS)
- Elaboration of materials from inorganic to polymers (6 ECTS)
- Chemistry of materials taught by international visiting professors (6 ECTS)
- Project with an entrepreneurship angle in a UBx laboratory (6 ECTS)
- Two optional courses must also be chosen (6 ECTS each)

Semester 2
- Project: from materials to devices (3 ECTS)
- Industrial seminars (3 ECTS)
- Internship of 3 to 4 months (3 ECTS)
- Batteries and alternative energies taught by international visiting professors (6 ECTS)
- Additives manufacturing (from polymers to ceramics) taught by international visiting professors (6 ECTS)
- Two optional courses must also be chosen (6 ECTS each)

Year 2

Semester 1
- Customized program with three tracks (Inorganic, Colloids or Polymers)
- Two courses to be chosen from the three below (all taught by visiting professors)
  - Graduate Program's Polymers (Bioinspired Polymer) (6 ECTS)
  - Graduate program’s Hybrids & Colloids (6 ECTS)
  - Graduate program’s Inorganic (6 ECTS)
- A research project (1st chapter of thesis) must also be completed (3 ECTS)
- Three to four optional courses must also be chosen (6 ECTS each)

Semester 2
- Internship for 6 months (30 ECTS)
- One course may be taken (taken from Semester 2 of year 1 or from the doctoral school offer)

How to apply?
Candidates must send a CV, cover letter and transcript of previous grades.

And after?
The ultimate goal of the EUREkA Graduate Program is to educate top-level, next-generational academic and industrial leaders who will bring a strong innovational approach to the fields of Functional Polymers, Inorganic and Hybrid & Colloidal materials. Graduates may pursue an academic career as PhD students or an industrial career as engineers.

Contact
gp-eureka@u-bordeaux.fr