

EUREkA

Program Outline

Selected by the Investments for the Future program, EUREkA focuses on knowledge, innovation and cross-disciplinarity, with the support of the National Center for Scientific Research (CNRS). This Graduate Program provides a complete interdisciplinary and international training, from MSc to PhD, in the domain of chemistry and physics-chemistry of materials, starting from the stage of conception, synthesis and elaboration, to chemical, physico-chemical and physical characterizations, and their use for specific functions and applications.

The studied materials are very diverse (e.g., inorganic materials, polymers, colloidal materials, hybrids, composites, etc.) and draw upon the main research-fields studied within the laboratories of the University of Bordeaux.

Admission Requirements

Hold a Master's degree in chemistry, physics-chemistry or materials science.

Prove an excellent academic and scientific level. Demonstrate previous experience in a research laboratory.

Academic Cooperation

- › Switzerland: École polytechnique fédérale de Lausanne
- › US: Duke University, UCLA, University of Cincinnati, University of Massachusetts, University of Nebraska
- › Japan: University of Tsukuba, University of Kyoto
- › Spain: University of the Basque Country
- › Lebanon: Lebanese University
- › Brazil: Federal University of ABC

Doctoral School

Chemical sciences

Program duration

3 years

Language Requirements

Program taught entirely in English, a C1 level according to the CEFR is required.

Fees and scholarships

- › PhD positions are offered on a yearly basis
- › International mobility grants and co-supervised theses are available upon application based on the program's academic collaborations.
- › Annual registration fees for all selected applicants are calculated according to the rules and regulations of the University of Bordeaux (approximately 400€).

Strengths

- › Doctoral students develop skills based on the wide range of topics relating to the materials studied on the Bordeaux campus: e.g., inorganic materials, colloids, polymers, hybrid and composite materials, etc.
- › Privileged network of 8 research laboratories with complementary areas of specialization.
- › Cutting-edge technologies dedicated to the characterization and development of materials (e.g., clean room, SPS, HR TEM, etc.).



- › Strong dynamic of cross-disciplinary research and learning environment, providing students and PhD candidates with the opportunity to work with not only physicists, engineers, mathematicians, and computer scientists, but also various philosophers of science and other researchers in the humanities.

Program Structure

- › The program takes place within our research community, composed of 8 labs and having their unique areas of specialization. Our training covers a wide range of subjects pertaining to materials and their applications (e.g., energy, recycling, bio materials, etc.).
- › Our teams and partners hold diverse and complementary expertise. Crossdisciplinary technological-approaches are used to address either specific matters or global issues.

Regarding energy materials, for instance, the combination of skills in physical and chemical characterization, elaboration, and electrochemistry enables a better grasp of the issue. Also note that a system approach allows us to cover TRLs from 1 to 5.

And after?

EUREkA trains top-level, next-generation academic and industrial leaders, who will bring a strong innovational approach to the fields of functional polymers, inorganic and hybrid & colloidal materials.

How to apply?

Applications are to be submitted online.

Website



Contact

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Graduate Research School / université de BORDEAUX