PhD Light Sciences & Technologies

Program factsheet

ACADEMIC COOPERATION
The PhD in Light Sciences and Technologies is managed by the University of Bordeaux and the Institut d’Optique Graduate School (IOGS) with a focus on innovation and entrepreneurship.

Strong partnerships for international mobility and / or PhD co-supervision with:
- Brazil: São Paulo State University (UNESP)
- Canada: Université Laval & Institut National de la Recherche Scientifique (INRS)
- Germany: Abbe School of Photonics, (FSU Jena)
- South Korea: Yonsei University
- USA: University of Central Florida (UCF)

THREE PHD OPTIONS
- Physical and engineering sciences
- Chemical sciences
- Life and health sciences
The PhD degree program includes complementary training as part of the cursus which leads to the validation of an additional doctoral certificate.

LANGUAGE REQUIREMENTS
Program taught entirely in English, a B2 level (minimum) is required.

ADMISSION REQUIREMENTS
Candidates must fulfill the following:
Hold a Master degree (or equivalent) in Science.

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

Strengths
- Top-class research environment with a high-level of technical know-how.
- Integrated, complementary training program (for both the research and business track), provided by academic and industrial players.
- Cross-fertilizing environment, thanks to the strong involvement of 15 research laboratories as well as industrial R&D centers and transfer platforms. This environment prepares students for future academic and / or industrial careers in photonics.
- Opportunities to apply for international mobility scholarships.
- Dual PhD degree opportunities with our main international partners.
- Individual support for all international doctoral students provided by a dedicated LIGHT S&T International Officer.

Program outline
The international PhD in Light Sciences and Technologies is part of the University of Bordeaux Graduate Research School.

Selected within the French “Investments for the Future” program as an “Initiative of Excellence”, the three year program focuses on knowledge and innovation in light sciences and technologies, providing a multidisciplinary environment for first-class PhD research.

Students are offered complementary training with a strong emphasis on research and entrepreneurship skills.

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Program outline

Graduate Research School
After graduation, students are fully prepared for a career in research. They may also work as entrepreneurs, R&D engineers or in top-level management positions within the industrial sector.

**Associated sectors:**
- Light sources
- Laser processing and 3D manufacturing
- Sensors and multi-responsive detection systems
- Smart and reconfigurable integrated photonics systems
- Innovative hybrid nanotechnologies
- Optical component and device manufacturing
- Innovative optical materials
- Microscopies
- Pharmaceutical companies
- Bio-imaging and biotechnologies

**How to apply?**
- Applications may be completed online: https://light-st.u-bordeaux.fr

**Contacts**
- Email: education.light-st@u-bordeaux.fr
- Email: manager.light-st@u-bordeaux.fr
- Website: https://light-st.u-bordeaux.fr