**Program Outline**
The Cardiac EP Master’s degree provides research and innovation-based training for versatile, high-level specialists in the field of electrophysiology and cardiac bioengineering. The program brings a global and transversal approach to all pathologies, including a cardiac electrophysiological component.

**Admission Requirements**
French medical students must have a validated DFASM3 or DFASP2 (advanced medical or pharmaceutical science training degrees)

› EU/FR students and non-EU students must have completed a 4 year degree in the field of medical/biomedical/biological science, veterinary science or pharmaceutical science or engineering (including CPGE (Preparatory classes for Grandes Ecoles for French students)

**Academic Cooperation**
The Cardiac EP Master of Science degree is delivered along with Liryc, the University–Hospital Electrophysiology and Heart Modeling Institute.

**Program duration**
1 year, including an internship (60 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**
› Unique multidisciplinary teaching program focusing on cardiac electrophysiology and arrhythmias
› Research-based teaching with practical sessions hosted within the laboratory.
› Ideal research and training environment with world-renowned experts in the field, including international academic and industrial partners, contributing to the program.
› Multitude of international mobility possibilities with students benefitting from a large network of international collaborators.
› High-level training increasing students’ employability and offering possibilities to continue with a PhD program in the field of cardiac electrophysiology.
Year 2

Semester 1
Didactic session (30 ECTS)

Core program
› Cardiac physiology and pathophysiology, signal, acquisition & treatment, modelisation, cardiac imaging
› Electromechanical heart diseases: heart failure, supraventricular arrhythmia, ventricular arrhythmia & sudden death
› Treatments of electromechanical heart diseases (treatments of heart failure, heart stimulation, ablation and pharmacological treatment of arrhythmias)
› Regulation and innovation economics
› Technological and therapeutic innovations
› Scientific communication skills

Hands-on group projects
› Heart failure, bioenergetics and stimulation
› Cardiac electrophysiology and arrhythmias
› Cardiac devices

Semester 2
Internship (30 ECTS)
› Internship within a research laboratory, hospital department or within the industrial sector.

How to apply?
Documents required for the selection procedure:
› Application form
› Copies of all graduate diplomas (BSc and MSc)
› All previous transcripts
› CV in English (2 pages maximum)
› Cover letter in English (2 pages maximum)
› Recent English certificate or any document certifying a B2 level of English upon review.
› Whenever possible (optional), one recommendation letter from an academic or professional body (2 pages maximum), including the referee’s signature, presented on institutional headed paper and bearing an institutional stamp/seal.

And after?
Students benefit from high-level training and long-standing collaborations with international research centers and industrial partners in the field of cardiac electrophysiology. Multiple opportunities are therefore available to:
› Pursue a career in the biomedical industry
› Further studies by enrolling in PhD training
› For professionals, boost their career path within their sector.

Website

Contact
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