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
› Candidates 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))
› French medical students must have a validated DFASM3 or DFASP2 (advanced medical or pharmaceutical science training degrees) or have a background in equivalent research.

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
Basics (6 ECTS)
› Focus on basic knowledge and the functional capabilities of the tools used in health data analytics.
Electronic health data (6 ECTS)
› Focus on the skills required to conceptualize, manage, analyze and communicate via health research carried out by Electronic Health Records (HER) and medicoadministrative databases (MA-DBs).
Digital cohorts (6 ECTS)
› Focus on the skills required to conceptualize, manage, analyze and communicate via cohort studies that integrate digital tools.
Web-based data (6 ECTS)
› Focus on the abilities needed to prepare public health studies which integrate data from social networks and web forums, linked open data and mobile data. Practice is carried out via a dedicated case study that involves the processing of large mobile dataset (call details records).
Omics data (6 ECTS)
› Focus on the abilities needed to conceptualize, manage, analyze and communicate using clinical studies that integrate high dimensional data.

Semester 2
› Training period of six months in France or abroad (30 ECTS)

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.

Contact
gp-cardiacep@u-bordeaux.fr

Website
FRANCE

Juillet 2023 - direction de la communication - université de Bordeaux - photo © A. Gilbert

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