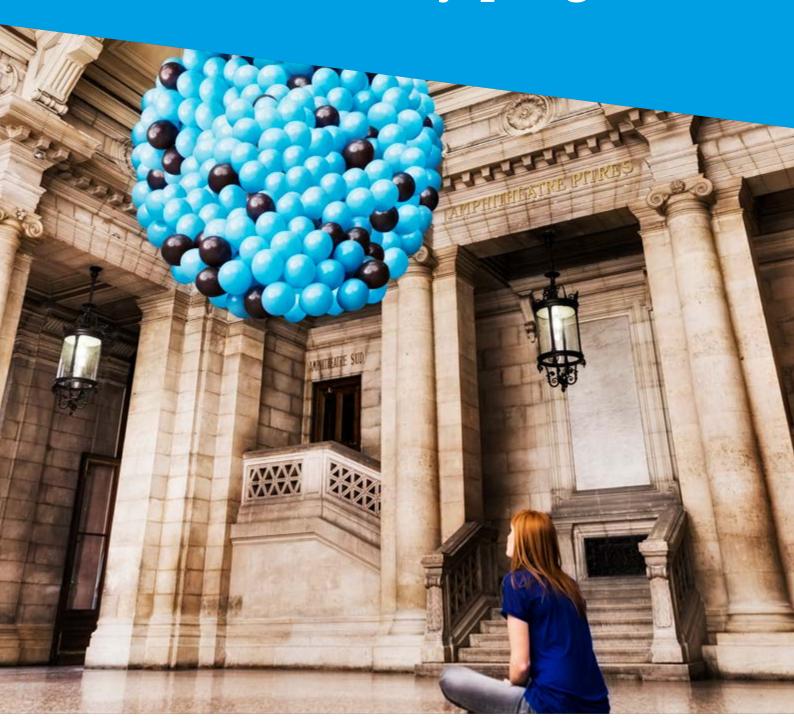
International study programs







Study with us!

France is one of the most popular destinations for international students. It's no wonder with a top-quality, yet accessible, higher education system. And once you're here, what better place to live and learn other than Bordeaux?!

The University of Bordeaux is a multidisciplinary institution with a college of Law, Political Science, Economics, Management, a college of Health Sciences, a college of Human Sciences and a college of Science and Technology. It also includes an Institute of Technology, an Institute of Education and an Institute of Vine and Wine Science.

Around 60 international study programs are on offer at every level (Bachelor, Master, PhD), proposing mobility, teaching in English (or another foreign language) and / or a double degree. We offer approximately 28 Master programs taught 100% in English.

Read on to discover these study programs...

Our Masters

Economics & Management

Master: European Business Administration

Master: International Management

Master (MBA): Business Administration and Finance

Master: Economic Affairs

Master: Economics of Global Risk

Science and Technology

Collaborative degree: Aero-System Operations

Master: Image Processing and Computer Vision

Master: Science in Marine Environment and

Resources

Master: Functionalized Advanced Materials and

Engineering

Master: Physical-Chemistry and Chemical Physics

Master: Advanced Materials

Master: Advanced Materials Innovative Recycling

Master: Advanced Materials for Innovation and

Sustainability

Master: Light Sciences and Technology

Master: Enterprise Engineering

Master: Engineering of Sustainable Vehicles

Master: Algebra, Geometry and Number Theory

Master: Biology Agrosciences

 $Master: Bioinformatics \ and \ Omics$

PhD: Algebra, Geometry and Number Theory

PhD: Functional Materials for Energy, Information

Technology and Health

Health Sciences

Master: Agro-Biomedical Science

Master: Pharmacovigilance and Pharmacoepidemiology

Master: Analytical Chemistry for Drugs and Natural

Products

Master: Public Health Data Science

Master: Neuroscience (NeuroBIM)

Master: Neuroscience (Neurasmus)

Master: Euro-Mediterranean Master of Neuroscience

(EMN-Online)

PhD: Bordeaux Neurocampus

Human Sciences

Master: Administration and Management of Professional Sports Clubs

Wine Sciences

Master: Business and Science in Vineyard and Winery

Management

Master: Wine Tourism Innovation

Economics and Management



ADMISSION REQUIREMENTS

Applicants must fulfill the following requirements:

- Have completed a 3 year course (180 ECTS) in any study field.
- Note: the program is open to graduates from a non-business/management field with little or no business experience and who are looking to develop their knowledge of the business environment and managerial skills

PROGRAM DURATION

1 year (60 ECTS).

LEVEL

Master degree / Year 1.

TUITION FEES

3,600€ plus registration fees (500€).

LANGUAGE REQUIREMENTS

Advanced English:

- > TOEFL IBT 90, IELTS 6.5 no sub-score under 6.
- Cambridge: Certificate in advanced English.
- > TOEIC "listening and reading": 890/990, "speaking and writing": 300/400, PTE Academic 65.

Program outline

The aim of this Master program is to teach the basics of management, law, accounting and finance to students from different academic backgrounds.

The European Business Administration Master is composed of introductive courses taught entirely in English by visiting European and international professors as well as faculty staff.

How to apply?

Send these documents to the International Office:

M1 EBA Application Form / Official transcripts, copies of all previous diplomas received / Passport copy (or ID card if European) / Copy of birth certificate (if non-European) / Cover letter and CV (in English) / Language test (ECTS, TOIEC, IELTS...) or certificate of studies in an English speaking High School / Four passport sized photos.

Contact

Program director: Pedro Arbulu

» pedro.arbulu@u-bordeaux.fr / +33 (0)5 56 00 97 10

 $\textbf{Program coordinator:} \ \textbf{Juliana Faye}$

> juliana.faye@u-bordeaux.fr / + 33 (0)5 56 00 45 23



IAE Bordeaux

www.iae-bordeaux.com

Semester 1

Program structure

- Organizational theory
- Organizational strategy
- > Economic globalization
- > European economic environment
- > European institutions
- > European law 1
- > International accounting 1
- > Financial mathematics
- Decision-making and statistical analysis
- > Business French 1

Semester 2

- Marketing
- > Human resources
- > International strategy
- > Corporate finance
- Banking and finance in Europe
- > European law 2
- > International accounting 2
- > Business French 2
- > Internship/dissertation

→ And after?

> This program prepares students for the MBA program with IAE Bordeaux university school of management as well as for all other Master Year 2 programs in management. It also trains and equips students for executive positions in company headquarters or subsidiaries.





ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

> Have a Bachelor degree with honors or 4-year/240 ECTS equivalent in the business field.

PROGRAM DURATION 1 year (60 ECTS).

Program outline

The Master's degree in International Management is designed to provide students with a balance of practical knowledge and theory of management in the international environment.

How to apply?

Send these documents to the International Office:

Master International Management Application Form / Official transcripts, Passport copy (or ID card if European) / Copy of birth certificate (if non-European) / Cover letter and CV (in English) / Language test (ECTS, TOIEC, IELTS...) or certificate of

LANGUAGE REQUIREMENTS

Advanced English:

- > TOEFL IBT 90, IELTS 6.5 no sub-score under 6.
- > Cambridge: Certificate in advanced English.
- > TOEIC "listening and reading": 890/990, "speaking and writing": 300/400, PTE Academic 65.

LEVEL

Master degree.

TUITION FEES

4,900€ plus registration fees (500€).

Program structure

Various teaching and assessment methods are used. During the seminars there will be course-work based assessment such as exercises, case studies and group projects, as well as tests and a final report on the internship completed in the second semester.

Semester 1

- International business law
- Contracts
- > International trade practices
- > Supply chain management
- International strategic management
- > Information system, intelligence & security policies
- > Cross-cultural management
- > International environment 1
- International marketing
- > International accounting and
- Global human resources management

Semester 2

- > Serious game
- > Operations project management
- > International environment 2
- Comparative perspective
- Topics linked to management
- Company visits
- > French foreign trade advisor conference cycle
- > Professional experience

Contact

Program director: Emmanuelle Sauvage

> emmanuelle.sauvage@u-bordeaux.fr / +33(0)5 56 00 45 24

Program coordinator: Juliana Faye

juliana.faye@u-bordeaux.fr / + 33 (0)5 56 00 45 23



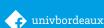
IAE Bordeaux

BORDEAUX www.iae-bordeaux.com

→ And after?

> This program prepares students for executive positions in international companies or in subsidiaries that specialize in international markets.









université de BORDEAUX

College of Law, Political Science, **Economics & Management**

> University of Bordeaux, France

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

> Have a Bachelor degree with honors or 4-year/240 ECTS equivalent in the business field.

PROGRAM DURATION

1 year (60 ECTS).

LANGUAGE REQUIREMENTS

Advanced English:

- > TOEFL IBT 90, IELTS 6.5 no sub-score under 6.
- > Cambridge: Certificate in advanced English.
- TOEIC "listening and reading": 890/990, "speaking and writing": 300/400, PTE

LEVEL

Master degree.

TUITION FEES

4,900€ plus registration fees (500€).

Program outline

The aim of the MBA is to develop an advanced level of knowledge within the domains of business and management with a focus on finance.

It has the particularity of being taught entirely in English by visiting European and international professors and professionals as well as faculty staff.

How to apply?

Send the documents below to the International Office:

- Language test (ECTS, TOIEC,

Keep in mind!

- > Maximum number of students:
- > Selection: based on documents

Program structure

Various teaching and assessment methods are used. During the seminars there will be course-work based assessment such as exercises, case studies and group projects, as well as tests and a final report on the internship completed in the second semester.

Semester 1

- > Economic and business environment
- > Business law
- › Organization behavior
- > Financial accounting
- Cost accounting and management control
- > Information systems
- Operations and logistics management
- > Decision-making and corporate finance

Semester 2

- > Financial statements analysis
- > Investment and portfolio management
- > Risk management
- > Business and strategic
- > Marketing management
- > Management business game
- > Business French
- > Internship

Contact

Program director: Pedro Arbulu

> pedro.arbulu@u-bordeaux.fr / +33 (0)5 56 00 97 10

Program coordinator: Juliana Faye

) juliana.faye@u-bordeaux.fr / + 33 (0)5 56 00 45 23



IAE Bordeaux

www.iae-bordeaux.com

→ And after?

> The program prepares students for high-level executive positions in company headquarters or subsidiaries.







ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- Hold an accredited Bachelor's degree (or equivalent) in economics, management, law or the humanities fields, with a record showing high academic achievement.
- Demonstrate a clear commitment to international affairs.
- French students: M1 in economics, management, law, social sciences or humanities.

LANGUAGE REQUIREMENTS

An advanced level of English is essential and must be demonstrated by an official test result:

- > TOEFL IBT 90, IELTS 6.5 no subscore under 6.
- > Cambridge: Certificate in advanced English.
- > TOEIC "listening and reading": 890/990, "speaking and writing": 300/400, PTE Academic 65.

LEVEL

Master degree.

PROGRAM DURATION

1 year (60 ECTS).

Program outline

The Master in Economic Affairs (MEA) is one of the 18 postgraduate master programs offered by the College of Law, Political Science, Economics and Management of the University of Bordeaux. It is a full-time degree taught in English, designed for international and French university graduates.

The program provides students with an opportunity to develop a broad understanding of key economic issues in international affairs and an in-depth knowledge of practical European and international business skills and practices.

What distinguishes the program is its focus on specific European and international trade and financial policies and business transactions using analytical tools from economics, political science, management, business and law.

The program provides companies with managers ready to deal with intercultural management and international trade situations.

The Master in Economic Affairs is ideal for students who wish to deepen their theoretical and practical knowledge of international affairs, who aspire to a career in the international arena and who want to add an international dimension to their educational background. It is also an ideal program for those who wish to take part in a multicultural experience in a culturally rich and dynamic environment and who desire to strengthen their proficiency in English as well as acquiring basic language skills in French.



Program structure

September to November:

International students are advised to register for a three-month intensive DU (University Diploma) program, specifically designed for the MEA foreign students whose mother tongue is not French and/or who did not graduate in economics. The DU program offers intensive elementary-to-advanced level language courses in French, intermediate-to-advanced level language courses in English, remedial courses in international and European economics, some business trips and access to cultural and intercultural activities and events.

December to June:

Courses for the MEA start in December.

Semester 1

(30 ECTS - 180 hours)

- > International contract law
- > European markets dynamics and specificities
- > European fiscal optimisation
- > European populations
- > Exchange rates risk
- International payments
- > Trading and shipping
- > Business knowledge
- > Leadership
- Macroeconomic issues

Semester 2

(30 ECTS - 180 hours)

- > Communication methodology
- > Business development project
- > E-Economy
- > Innovation

- International financial reporting
- Intellectual property rights
- > Intelligence économique (course in French)
- > Luxury economy

Strengths



The goal of the program is to develop a range of marketable skills and competences needed to carry out functions in international trade (exchange rates and shipping, economic intelligence) and intercultural



The program combines courses in both theory and practice, and focuses on working methods, readings,

Contacts

Program Directors:

Cécile Cormier, Associate Professor in American Studies cecile.cormier@u-bordeaux.fr

Bertrand Blancheton, Dean of the Faculty of Economics bertrand.blancheton@u-bordeaux.fr

For more information about the registration process:

Frédéric Guyot

frederic.guyot@u-bordeaux / +00 33 (0)5 56 84 54 78 or visit: economie.u-bordeaux.fr/Formations

→ And after?

The program prepares students for a broad range of careers in the international business and trade areas:

- > Export manager
- > Transnational contracts negociator
- > Trade manager
- Customer service manager
- Area manager

How to apply?

If you want to apply, you must submit the following:

- > Updated version of your resume
- > Cover letter
- > At least two letters of reference from current or former university professors and/or employers
- > Copies of your most advanced diplomas or your course transcripts
- > Your score on an official English proficiency test (if

These documents may be emailed to program director, Cécile Cormier (cecile.cormier@ubordeaux.fr).

The deadline for the administrative registration is April 2019. However, depending on your country of residence, the registration deadline through Campus

For this reason, we advise you to send the required possible - class size is limited and enrollment is very selective.





Science and Technology



ACADEMIC COOPERATION

Consortium of two universities:

- > USA: University of Cincinnati (Ohio).
- > FRANCE: University of Bordeaux: College of Science and Technology.

ADMISSION REQUIREMENTS

University of Bordeaux:

- > Hold a European Bachelor degree or a European Professional Bachelor diploma with 180 ECTS/90 US credits within a College of Science. This training must be accompanied by three years professional experience; or
- > Hold a Master degree with at least 240 ECTS/120 US credits within a College of Science.

University of Cincinnati:

> Hold a US Bachelor degree with 240 ECTS/120 US credits within a College of Science.

LEVEL

Collaborative Degree Program.

PROGRAM DURATION

1 year (60 ECTS - 30 US credits).

LANGUAGE REQUIREMENTS

Students for whom English is not the mother language require a minimum level of: IELTS (6,5 mini), Pearson (59, TOEFL (85), European Level (B2), TOEIC (750).

TUITION FEES

- > Annual tuition fees: 24,000 USD Significant reductions exist upon application, depending on the university/country of origin:
- > Students from partner universities: 11,000 USD
- > Students from other international universities: 15,000 USD

Program outline

With global competition and the consumer demand for innovation becoming ever-more imperative, the need for collaborative engineering is prevalent throughout today's market. The realm of air traffic management and safety -both civilian and defense- is no different.

The University of Bordeaux/IMA and the University of Cincinnati College of Engineering and Applied Science (UC CEAS) have partnered to develop the Aero-System Operations (AESOP) Collaborative Degree Program.

Students at each university pursue UC CEAS' Master of Engineering Degree and UBx's International Diploma concurrently and graduate with both degrees. This program offers a practiceoriented, individualized degree that prepares engineers to excel in today's working world.

Strengths

decade, especially that of Aeronautical, Mechanical, Electrical, Electronic and Computer Engineering as well as Computer

environment, top opportunities are going professional capabilities. The AESOP to those interested in expanding their





graduate study experience



> Expand your knowledge and



of engineering through an interdisciplinary focus



> Increase your earning potential



> Follow some courses online



Basics

Technical Specialty

Aero System Operations

Aero System Operations

Courses

Practical courses

Capstone

Fall semester: Cincinnati lár



Basics (18 credits)

AESOP Program Requirement (6 credits, mandatory)

- > Introduction to Aircraft Systems
- > Regulations and Maintenance

Project / Task Management Development (6 credits, choose one)

- > Engineering Economic Analysis
- > Quality Control
- > Project Management
- > Entrepreneurship and Technology Law

Interpersonal Skill Development (6 credits, choose one)

- > Management of Professionals
- > Leadership
- > Effectiveness in Technical Organizations

Technical Specialty (12 credits, choose two courses)

- > Aeronautical Engineering
- Mechanical Engineering
- > Electrical, Electronic and Computer Engineering
- > Computer Science

Spring semester: Bordeaux II

Aero-System Operations (22 credits)

Airworthiness UBx/ENAC and Maintenance Program Planning (6 ECTS, mandatory)

Each module includes theory, applications and lab (4 ECTS, choose one):

- Maintenance Repair & Overhaul
- > Continuous Airworthiness Maintenance Organization

Each module includes theory, applications and lab (12 ECTS, choose one):

- > Avionics Maintenance
- > Structural Aircraft Maintenance
- > Propulsion Aircraft Maintenance

Aero-System Operations (8 credits)

Capstone project: project or internship with choice of sponsored research at UBx laboratory or internship at industry level.

→ And after?

Studies:

> The AESOP program provides a complete panel of individual training modules about Aerospace Operations, Aircraft Maintenance and Aircraft Life Management Cycle. After graduating, these modules may be followed individually, thus bringing complementary qualifications.

Employment market:

> After obtaining the international AESOP Collaborative Degree, graduates will be equipped to quickly and efficiently take on an operational position within the aircraft industry.

How to apply?

UBx students:

UC students:

Contact

PROGRAM COORDINATOR:

UBx / IMA, Mérignac

Olivier Puissant

olivier.puissant@u-bordeaux.fr

Franck Cazaurang

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Kelly Cohen

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Eugene Rutz

rutzee@ucmail.uc.edu

www.uc.edu







University of Bordeaux,

University of Cincinnati,



www.u-bordeaux.com

TOMORROW'S SI STARTS TODAY





ACADEMIC COOPERATION

Consortium of 3 universities:

- Pazmany Peter Catholic University, Budapest, Hungary (PPCU)
- Universidad Autónoma de Madrid, Spain (UAM)
- > University of Bordeaux, France (UBx).

LEVEL

Triple Master degree, completed by three diploma supplements.

Students who successfully complete the International Image Processing and Computer Vision (IPCV) Master Program, including the compulsory mobility period, receive a national degree from each partner university:

Pazmany Peter Catholic University:

MSc degree in Engineering Information Technology; specialization in IPCV.

Universidad Autónoma de Madrid:

 Master's degree in ICT Research and Innovation (i2-ICT).

University of Bordeaux:

 Master degree in "Informatique", (Computer Science); specialization in IPCV.

A diploma certification is additionally awarded by each university.

TUITION FEES

- Self-funded program country students: 4,500 € per year (9,000€ for 2 year-program).
- > Self-funded partner country students: 9,000€ per year (18,000€ for 2 year-program).

PROGRAM DURATION

2 years (120 ECTS).

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- Hold a Bachelor degree or equivalent in engineering science, mathematics, computer science or signal processing before the start of the program.
- Average grade of at least "Good" according to local criteria for the courses completed before the mobility period.
- Adequate knowledge of written and spoken English, equivalent to B2 according to the CEFR B2 or IELTS score of 6.5 or TOEFL of 90. Native English speakers do not have to submit English test results.

LANGUAGE REQUIREMENTS

English: equivalent to B2 according to the CEFR.

Program outline

The International Master Program in Image Processing and Computer Vision (IPCV program), managed by the University of Bordeaux, provides specialized training in a field of increasing importance in our daily lives. It is essential in domains such as medicine, surveillance, industrial control, remote sensing, e-commerce and automation.

The IPCV Master Program covers a wide range of methods in computer vision and guarantees highly-qualified graduates in this field.

Three partner universities, with internationally recognized experience in these domains, have pooled their complementary expertise and developed this international postgraduate cooperation initiative.

The IPCV program is an Erasmus Mundus Joint Master Degree developed under the Key Action 1 of the Erasmus+ program.



All students follow the same mobility schemes and the same curriculum. Each semester is awarded 30 ECTS. Students may choose two specialization tracks:

- > Track 1: Vision and applications
- > Track 2: Vision and devices

Semester 1

Pazmany Peter Catholic University:

> Fundamental and theoretical knowledge in mathematics, electronic computing, signal and image processing, sensors and parallel computing.

Semester 4

> The last semester is dedicated to an internship at a company or research laboratory anywhere in the world.

Semester 2

Universidad Autónoma de Madrid:

Video analysis, medical image processing and analysis, biometrics, computer vision for surveillance problems and initiation to research.

Semester 3

University of Bordeaux:

> Object-programming, deep learning, image reconstruction, variational modeling, project-management.

→ For more details

Please consult the website:

> www.ipcv.eu/programme/courses

Strengths



by experts from three different



Triple Master degree.



International mobility period in three countries.

→ And after?

After graduation, students have access to career opportunities such as engineers or further research as PhD students. Their educational background makes them attractive candidates for companies in the following areas:

- > E-commerce
- Medical imaging
- > Personal assistance
- Automation
- > Industrial control

- > Security
- > Post-production
- > Remote sensing
- Software publishing

How to apply?

Please send Curriculum Vitæ, grades, cover and recommendation letters to:

> application-ipcv@u-bordeaux.fr

Please note: the next academic year starts in August



Contact

- > ipcv@u-bordeaux.fr
- > http://ipcv.eu/



Program factsheet

ACADEMIC COOPERATION

Consortium of 4 universities:

- > University of the Basque Country, Spain (coordinator institution)
- > University of Southampton, U.K.
- > University of Bordeaux, France
- > Université de Liège, Belgium

LEVEL

Multiple Master of Science degree in "Marine Environment" awarded by the three consortium universities where the student has studied.

ADMISSION REQUIREMENTS

Candidates must have:

> A Bachelor degree or equivalent from a European or third country university in the field of biosciences, chemical sciences, geosciences, physical sciences or engineering.

LANGUAGE REQUIREMENTS

The teaching language is 100% English. Proof of proficiency in English is essential.

> The minimum requirements for non-native speakers are an IELTS score of 6.5 or TOEFL 570/227, or an equivalent approved by the Joint Program Board of the Consortium

PROGRAM DURATION

2 years (120 ECTS).

TUITION FEES

Annual fees:

Irrespective of the chosen study track:

- > Third country students*: 9,000€/ vear
- > European students / assimilated as European*: 4,500€/year
 - *according to Erasmus Mundus rules

Scholarships:

Irrespective of the chosen study track:

- > Erasmus Mundus scholarships
- > Erasmus mobility grants
- > Mobility grants funded by the Spanish Government and the Basque Government

Students choosing to study in Bordeaux:

- Mobility grants available according to excellence criteria funded by the Initiatives of Excellence in Bordeaux and Bilbao (i.e. the Excellence programs of the Universities of the Basque Country and of Bordeaux: Euskampus, IdEx - International Master, www.aquimob.fr).
- Mobility grants available according to excellence / social criteria funded by the partner institutions and by regional governments (e.g. Conseil Regional Aquitaine for Bordeaux: www.aquimob.fr).

Program outline

The MER+ Master program provides high quality teaching in general oceanography with a specialization in Marine Environment (ecology, ecotoxicology, biochemistry, geochemistry, sedimentology, paleo-oceanography) and living or non-living marine resources.

The MER+ program benefits from a consortium of four EU universities (Bilbao - Spain, Bordeaux-France, Southampton-UK and Liège-Belgium) and a worldwide network of associated partners.



The MER+ Master program is organized according to three teaching semesters (Semester 1-3: coursework) plus a research master thesis (Semester 4) carried out via an internship at any partner research institution worldwide. Mobility is mandatory and three different mobility opportunities are proposed for the coursework:

- > Bordeaux / Bilbao / Southampton.
- > Bordeaux / Bilbao / Liège.
- > Southampton / Bilbao / Liège.

Coursework is organized according to seven mandatory and optional modules (total: 90 ECTS):

> Module 1

Fundamental: Ocean Science

> Module 2

Framework: Ocean Physical Environment

> Module 3

Ocean Biological Environment

> Module 4

Anthropogenic Impact on Marine Ecosystems

> Module 5

Ocean Observatories and Environmental Monitoring Systems

University of Southampton

Université

de Liège

University

of Bordeaux

> Module 6

Valorization of the Marine Environment

University of the

Basque Country

Module 7

Marine Environmental Careers

The MSc thesis research is carried out during Semester 4 (30 ECTS) at any Marine Research Institute worldwide.

Strengths



Successful MER+ students acquire a high degree of personal and wide range of topics taught in the domains of oceanography and

Students learn to prove strong

mobility, autonomy and the

conditions in the different

countries involved.

capacity to adapt to different



At least three major European academic systems are experienced, and practice in applications for funding etc. at an international level is largely acquired.



Having studied in (at least 3) different countries and followed workshops in the English language, MER+ students have positions in a scientific career in an international context.

→ And after?

Successful completion of this program will prepare students for a leadership role in various marine sectors such as conservation and environmental management, fisheries, nongovernmental organizations and all levels of government positions from local to global. Students benefit from a worldwide network of partner institutions.

From its beginning (2007), the MER program has trained more than 100 students. More than 50% of graduates continue with a PhD. Other graduates integrate public or private organizations in their field of expertise.

Contact

MER+ program and application procedure:

> Master Secretariat at the coordinating University: http://merplus.merconsortium.eu

Track involving Bordeaux:

- > Prof Jörg Schäfer: jorg.schafer@u-bordeaux.fr
- > Florina Camarasu: florina.camarasu@u-bordeaux.fr

www.merconsortium.eu

How to apply?

Online application:

Deadlines:







Program factsheet

ACADEMIC COOPERATION

Consortium of 7 universities:

- Belgium: Université de Liège, Université Catholique de Louvain
- > France: Institut National Polytechnique de Grenoble (coordinator), University of Bordeaux
- › Germany: Technische Universität Darmstadt, Universität Augsburg
- > Portugal: Universidade de Aveiro

> Associated partners:

- > Industry: Schneider Electric Industries SAS; SOLVAY; Robert BOSCH Gmbh; MERCK, etc.
- Research & Technology Organizations: EMMI; CEA; Fraunhofer, etc.
- > Worldwide Associated Universities: University of Waterloo (Canada); Okayama University (Japan); Virginia Tech University (USA); University of Sao Paulo (Brazil); VNU Hanoi University of Science (Vietnam), etc.

I.F.VF.I

Double Master degree in "Material Science" awarded by the two consortium universities where the student has studied.

PROGRAM DURATION

2 years (120 ECTS).

LANGUAGE REQUIREMENTS

All courses are taught in English. Applicants must attach an official language test report to their application.

- > IELTS (Academic IELTS only): overall Band Score: 6 / writing Band Score: 5
- > TOEFL, total score: 92 (IBT), 550 (PBT) / writing score: 22 (IBT), 4.0 (PBT)
- Cambridge Certificate of Advanced English / Cambridge Certificate of Proficiency in English: Grades accepted: A, B, C

These minimum requirements are very strict. If the applicant score does not fulfill the minimum requirements, he/she is not eligible to apply and the application cannot be processed.

ADMISSION REQUIREMENTS

Candidates must have: Bachelor degree in material science or in physics / physical chemistry / chemistry / engineering with a speciality in the field of materials.

TUITION FEES

Annual fees:

Erasmus Mundus scholarship holders and self-funded students:

of the European Union

- > 9,000€/yr for third-country students,
- > 4,000€/yr for European students.

FAME+ tuition fees are covered by the Erasmus Mundus grant. Self-funded students should apply for other grant schemes (see below).

Students from partner universities benefit from a fee-waiver and pay only local tuition fees defined by their home university.

Grants:

- > Erasmus Mundus scholarships
- Mobility grants from partners
- Mobility grants from applicant countries (e.g. CONACYT in Mexico)
- Mobility grants from bilateral agreements (e.g. Indian-French Raman-Charpak Fellowships)

Bordeaux / Darmstadt track:

- › Bordeaux mobility grants
- International Master IdEx grants (Bordeaux students following M1 in Darmstadt / international students following Bordeaux / Darmstadt track)
- Eiffel grants (international students already enrolled in Darmstadt for M1, covering 2nd yr in Bordeaux)
- DAAD grants (Bordeaux students covering 1st yr in Darmstadt)
- › AquiMob grants (www.aquimob.fr)

Program outline

The FAME+ Master is a two-year Master of Science Program in Advanced Functional Materials. It is taught in English (100%) at seven universities, leaders in the field.

This program provides high-level academic and researchoriented education on the synthesis, characterization and processing of all classes of materials with emphasis on "Advanced Hybrid Materials and Ceramics by Design" in Bordeaux.

The program helps students develop a creative thinking mindset and leadership skills, along with a keen awareness of social and industrial needs, thanks to innovative learning practices that include extensive, collaborative projects.

European mobility is mandatory during the twoyear Master program thus taking advantage of the complementary skills of the universities in the network. In the last decade, more than 200 students have graduated from the FAME+ Master.



The FAME+ program consists of four semesters (30 ECTS each) including a Master thesis in a European research laboratory.

- > The first two semesters establish a firm background in Chemistry and Physics of Materials. Professional skills are developed through the FAME+/e project.
- > The third semester is dedicated to a specialization provided by one of the partner universities as world-leading expert. It is composed of mandatory and optional courses. For students studying in Bordeaux, the specialization is "Advanced Hybrid Materials and Ceramics by Design".
- > The last semester is dedicated to the Master thesis, prepared in the academic or industrial research laboratories of the FAME+ network.

Feedback

The EQAB considers FAME+ an excellent initiative for [students] who are interested in interdisciplinary materials science and engineering[...].

EQAB [is] convinced that the FAME+ program is well structured and organized. The FAME+ student community is rather international and has developed perceptible group dynamics, noticeably promoted by the annual FAME+ summer schools [...].

The EQAB was impressed by the wide variety of interdisciplinary research subjects presented at the workshop[s]. It considered some of the presented work excellent or even outstanding, and often at the frontier of the science and technology of functional materials and devices. The EQAB takes this as label of high quality and merit of the

Excerpts from External Quality Assessment Board (EQAB) report

→ And after?

After completion of this Master, students are encouraged to apply for PhD programs in Europe.

Graduates may also start working as scientists or R&D engineers within the industrial sector.

More than 70% of the FAME Master graduates from Bordeaux have successfully pursued their studies with a PhD opportunity. These PhDs have been carried out in Bordeaux (~33%), in France (~50%) and in Europe (~87%).

Strengths



High-level academic and researchoriented education about the and processing of all classes of

- > Chemistry and Physics of Materials during the first year.
- > Specialization in one of the seven programs offered by the partner



Improved integration capacity into



Enhanced employability thanks to innovative learning practices that help students develop a creative thinking mindset and leadership skills, along with awareness of social and industrial needs.



Strengthening of an international culture, including fluency in English, mobility as well as experience of the languages and culture of the countries visited.

Contact

General information on the FAME program:

Master FAME coordination: master.fame@grenoble-inp.fr

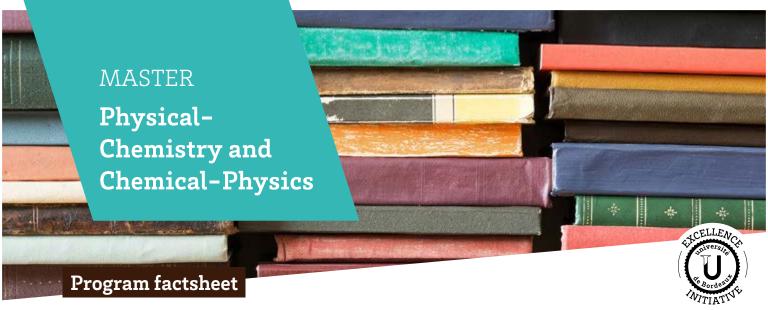
Information on the Bordeaux / Darmstadt track:

- > Dr. Michael Josse: michael.josse@u-bordeaux.fr
- > Florina Camarasu: florina.camarasu@u-bordeaux.fr

www.fame-master.eu / www.emmi-materials.eu

How to apply?

Online application: www.fame-master.eu



ACADEMIC COOPERATION

Consortium of 6 universities:

- > France: University of Bordeaux (UBx)
- > Belgium: Université de Namur
- > Ecuador: Universidad San Francisco de Quito (USFQ)
- > The Netherlands: Universiteit Leiden
- > Spain: Universidad del Pais Vasco
- > USA: Colorado School of Mines (CSM)

LEVEL

- Master of Science in Chemistry (specialization in Physical-Chemistry and Chemical-Physics)
- > Dual Master agreement with USFQ

LANGUAGE REQUIREMENTS

A good level of English is required: level B2

- > M1: 70% of classes are taught in English
- > M2: all classes are taught in English

ADMISSION REQUIREMENTS

Candidates must fulfill the following:

Hold a Bachelor degree of Science in Physical-Chemistry, Chemistry, Physics or an equivalent degree.

PROGRAM DURATION

2 years (120 ECTS).

FEES AND SCHOLARSHIPS

 University registration fees (scholarship students exempted): 200 to 400€. For dual Master degrees, specific fees are applied.

Scholarships are available for the mobility period:

- International Masters grants: for Bordeaux students, covering 5 to 9 months in one university of the consortium
- IdEx Laphia grants (photonics projects)
- > AquiMob grants: www.aquimob.fr
- Eiffel grants: for international students, covering a full year in Bordeaux
- Mobility grants from partner institutions.
- > Erasmus program scholarships

Strengths

- High-level educational and research environment, proposed by the partner institutions
- > Master students acquire project management skills at an international level
- > Mobility during the second year offers access to a wide range of courses and training
- > Dual Master degree opportunities with the USA and Ecuador
- > International mobility facilitates integration within both academic and industrial domains
- > Supported by the International Masters program within the Bordeaux "Initiative of Excellence"

Program outline

The PCCP program aims to integrate Master students within academic and industrial fields of fundamental physical chemistry. Various aspects are concerned: study of matter and its transformations, analysis and control of physical and chemical processes, light-matter interactions and spectroscopy techniques, modelling of physical and chemical processes from molecular to macroscopic scale.

Applications cover scientific fields ranging from nanotechnologies, photonics, optoelectronics and organic electronics, to environmental sensors and detection systems.

The PCCP Master is supported by high-level educational and research partners, represented by the consortium of universities engaged in the program. Students follow their courses within a challenging, international environment.

Annual summer schools, organized by the consortium partners, complete the students' training by offering a focus on several topics relative to PCCP.



Master students choosing to follow specific dual Master agreements with CSM or USFQ will spend part of their twoyear program at the partner universities. Upon completion of these specific programs, graduates will obtain a dual Master degree.

International aspects of the program are introduced progressively during the first year, with most courses taught in English. A remote research project is also organized to promote collaboration between students of the partner universities within the context of international scientific project management.

The second year is fully taught in English and international mobility is mandatory (at least during the second semester for the Master thesis work), thus strengthening the international dimension of the degree. Numerous mutualized lectures are carried out featuring high-level, local research activity. Practical aspects are emphasized to favor the future integration of the student within the working world.

Year 1:

Courses are in French, except when international students are attending

- > Numerical methods (6 ECTS)
- > Thermodynamics (6 ECTS)
- > Quantum mechanics (6 ECTS)
- > Inorganic materials or structural analysis (6 ECTS)
- > Theory of chemical bond (6 ECTS)
- > Solid state physics (6 ECTS)
- > Analytical chemistry (6 ECTS)
- > Spectroscopy (6 ECTS)
- > Quantum Chemistry and molecular simulation (6 ECTS)
- > Remote research project / English (6 ECTS)

Year 2:

Courses are in English

- > Photonics, lasers and imaging (6 ECTS)
- Dielectric and magnetic properties (6 ECTS)
- > Large scale facilities or auto-assembly, polymers and surfactants, or hybrid and nano-materials (6 ECTS)
- > Computational chemistry or energy, communication and information (6 ECTS)
- > Research project / English (6 ECTS)
- > Professional project (6 ECTS)
- Master thesis / internship in one of the universities of the consortium (24 ECTS)

→ And after?

After graduation, students are fully prepared to pursue doctoral studies and a career in research. They may also work as scientists or R&D engineers within the industrial field.

Associated business sectors:

- > Chemical analysis
- > Chemistry of the atmosphere and environmental science
- > Energy and photovoltaic technologies
- > Nanotechnologies
- > Aeronautics and space
- > Chemical industries, pharmaceutical technologies
- > Fine chemicals and cosmetics
- > Forensic science and artwork restoration
- > Molecular modeling and simulation

Academic research domains:

- Spectroscopy / analytical chemistry
- Astrochemistry
- > Properties of materials, solid state physics, reactivity at the interfaces
- Nanotechnology
- > Imaging, bio-detection
- Organic electronics, optoelectronics, and photonics
- > Theoretical chemistry, molecular modeling and simulation etc.

Other possible activities:

- > Teaching, education and dissemination of scientific knowledge
- > Linking public and private actors in research, development and marketing
- > Participating in the purchase and investment of scientific equipment

How to apply?

http://masterpccpbordeaux.wix.com/pccp

masterpccp@u-bordeaux.fr

COORDINATOR: Cédric Crespos +33 (0)5 40 00 63 10 cedric.crespos@u-bordeaux.fr

http://masterpccpbordeaux.wix.com/pccp





ADMISSION REQUIREMENTS

Candidates must fulfill the following: Hold a Bachelor degree with honors or 3-year / 180 ECTS equivalent in chemistry, physical chemistry or materials science.

LEVEL

Master degree in Chemistry.

PROGRAM DURATION

> 2 years (120 ECTS).

LANGUAGE REQUIREMENTS

A good level of English is required:

- > IELTS score around 6.5; TOEFL score 79-93; minimal TOEIC score 900
- Students with lower marks may be considered.

FEES / BUDGET

- > University registration fees : 400€
- > Some grants are available for selected students, which cover tuition fees and also include funds for everyday life: a maximum of 8,000€ for Master Year 1, a maximum of 5,000€ for Master Year 2.

Program outline

The aim of this Master program is to provide students with a complete training in the domain of Chemistry and Physical Chemistry of Materials, starting from the stage of conception, synthesis and elaboration, to physico-chemical characterizations, and their use for specific functions and applications.

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

The University of Bordeaux has been identified as a **Campus of Excellence** for the field of Materials.

Strengths



Students develop skills based on the large range of materials topics studied in the University of Bordeaux campus laboratory: inorganic materials, colloids, polymers, hybrid and composite materials etc...



Students are trained and equipped to enter both academic (fundamental research) or industrial (more applied research) fields. Whatever their profile, upon completion of their studies, they master a high level of skills in materials science



Students have the opportunity to test and apply their skills during two training periods occurring in Year 1 (two months) and Year 2 (six months) of the Master. These training periods most often take place in the chemistry labs (eight in total) located on the Bordeaux campus but other opportunities are available and may arise in other academic or industrial laboratories..





Year 1

Semester 1

Teaching is divided into two semesters which include five modules of 6 ECTS each:

- > Chemical bonding (6 ECTS)
- > Characterization techniques (6 ECTS)
- > Structural analysis of solids and surfaces (6 ECTS)
- > Introduction to colloids and polymer science (6 ECTS)
- > Elaboration of inorganic materials (6 ECTS)

Semester 2

- > English/French dedicated courses (3 ECTS)
- > Training period (two months), generally within the Bordeaux campus labs.

Training periods in industrial labs or any other chemistry labs (in France or abroad) are permitted if opportunities arise (2 ECTS)

- Conference series held by different lab directors on campus (1 ECTS)
- > Solid state physics (6 ECTS)
- Mechanical behaviour from fluids to solids (6 ECTS)

Students must choose two modules from the following options:

- > Transformations (6 ECTS)
- > Physical chemistry of polymer solutions (6 ECTS)
- > Phase transitions and phase diagrams (6 ECTS)
- Macromolecular chemistry (6 ECTS)

Year 2

Semester 1

The first semester offers several teaching modules.

Students must choose four modules from the following

- > Innovative and composite materials (6 ECTS)
- > Material dielectric and magnetic properties (6 ECTS)
- > Self-assembly in surfactant and polymer solutions (6 ECTS)
- > Photonics, laser and imaging (6 ECTS)

- Latex and emulsions (6 ECTS)
- > Energy, communication and information (6 ECTS)

Students must also choose two modules from the following options:

- > English or French tutorials (3 ECTS)
- > Project management (3 ECTS)
- > Entrepreneurship (3 ECTS)

Semester 2

> Six month training period in academic or industrial laboratories

How to apply?

Please send your CV and Bachelor degree certificate (including your grades) to:

> corinne.jalibert@u-bordeaux.fr

- > mondain@crpp-bordeaux.cnrs.fr
- > francis.rebillat@u-bordeaux.fr

→ And after?

> Master students with good marks may apply for PhD applications in chemistry labs. The local labs offer many opportunities with funding included from various agencies. After a PhD, the majority of our students find employment in the R&D department of chemical companies of various

> Master students who do not wish to apply for a PhD have a suitable profile for engineering positions in companies.

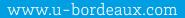


Contact

COORDINATORS

Prof. Olivier Mondain-Monval: mondain@crpp-bordeaux.cnrs.fr

Prof. Francis Rebillat: francis.rebillat@u-bordeaux.fr









CONSORTIUM

Five universities:

- > France: University of Bordeaux
- > Belgium: University of Liege
- Germany: Technical University of Darmstadt
- Spain: Technical University of Madrid
- > Hungary: University of Miskolc

Five research and technological organizations:

- France: CEA, the French Alternative Energies and Atomic Energy Commission
- Belgium: CRM Group (Centre de Recherches Métallurgiques)
- > Germany: Fraunhofer Society
- > Spain: Spanish National Research Council (CSIC); Tecnalia

Three large industries:

> ArcelorMittal, Arkema, Veolia (VERI)

I.EVEI.

Master of Science in Chemistry (specialization in Advanced Materials Innovative Recycling).

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

> Hold a Bachelor degree in Engineering and Environmental Sciences with advanced knowledge in Chemistry (minimum 3 years of study / 180 ECTS), or a Bachelor degree in Chemistry, Physical-Chemistry, Materials (or Matter) Sciences.

LANGUAGE REQUIREMENTS

This Master program is taught entirely in English. Students must possess a good level (level B2) of English.

PROGRAM DURATION

2 years (120 ECTS).

FEES AND SCHOLARSHIPS

> 1,000€ per year for EU and non-EU students

Scholarships:

- AMIR students: 2,500€ minimum mobility grant (1,000€ in M1, 1,500€ in M2)
- Grants from the AMADEus Cluster of Excellence for two students (8,000 € during their M1)
- > University of Bordeaux grants for three students based on M1 results (750€ per month, during their M2 and 750€ travel bonus for non-EU students)
- › Additional scholarships for the mobility period: Erasmus program scholarship of at least 220€ per month (available for all AMIR Master students for 12 months maximum)

Note: incentives are proposed to industries who offer high-quality internships (Master thesis). This represents fellowships of at least 500€ per month, per student.

Program outline

The AMIR Master program focuses on the raw material value chain, with particular emphasis on recycling. The two main objectives are:

Educate students to become highly-skilled European professionals with expertise in various types of materials. This expertise will enable them to develop, at a large and ambitious scale, new methods for material recycling. In addition, the AMIR program includes classes on transferable skills such as innovation, ethics, intellectual property, life cycle assessment, sustainability and advanced research strategies.

Develop a deep entrepreneurship mind-set with the help and expertise of associated businesses, incubators and innovation services as well as a large panel of industries.



The first year of the Master program takes place at the University of Bordeaux in partnership with the research and technology organization, Tecnalia. Students learn about general and technical aspects of the raw material value chain (general chemistry, material science, lifecycle of materials) as well as about the main outcomes of the European Institute of Innovation and Technology (EIT): sustainability, intellectual transformation, value judgments (ethical, scientific and sustainability challenges), creativity, innovation, leadership and entrepreneurship.

The third semester is dedicated to a specialization in one of the partner universities (see below). This part of the program offers the possibility to follow selected advanced materials classes for various applications (energy, e-mobility - magnets, transport, environments catalysis, etc.). The specializations are: material design for recycling in Darmstadt, metallurgy and metals recycling in Liege, mineral recycling for construction and other sectors in Madrid and glass, rubber and polymer recycling in Miskolc.

The program is completed with a three to six months' internship (Master thesis).

Strengths



AMIR graduates are international entrepreneurs work anywhere in Europe



research environment.



Practical insights with advanced research labs.



High-quality internships.



Mandatory international



& Technology (EIT) and the International Master "Initiative of Excellence" (IdEx).

Year 1

Advanced materials & recycling, transversal knowledge (60 ECTS)

> Bordeaux & Tecnalia



Year 2

Disciplinary knowledge: engineering and innovation (60 ECTS)

Specializations:

- > Darmstadt: material design for recycling
- > Liege: metal recycling
- > Madrid: mineral recycling
- > Miskolc: polymer recycling

Bordeaux: intellectual transforming skills for

Industry internship (30 ECTS)

Arkema, Arcelor-Mittal, Veolia or research & technology organizations: CSIC, BRGM, CEA, CRM, Fraunhofer, Tecnalia etc.

How to apply?

→ And after?

- > The AMIR program benefits from a strong academic, research and industrial network.
- > After graduation, students are fully prepared to integrate the working environment as professionals in the recycling sector (process optimization, materials design, plant administration, project management, etc.) whether it be in the industrial field or governmental organizations. Possible sectors include: information and communication technologies, building construction, energy, machinery tools, mobility.
- > Graduates also obtain the necessary skills and knowledge to set up their own company or work in sales and marketing.
- > Finally, further doctoral studies are another possibility and students may apply for Ph.D. programs in Europe, including those offered in the framework of the European Multifunctional Materials Institute (EMMI:www.emmi-materials.eu).

Contact

amir-master@eitrawmaterials.eu

www.amir-master.com



















CONSORTIUM

Five universities:

- France: Grenoble INP, University of Bordeaux
- > Finland: Aalto University
- > Germany: T.U. Darmstadt
- > Belgium: University of Liège

Industrial Partners:

- > Luxembourg: ArcelorMittal
- > France: Arkema, CEA
- > Germany: Fraunhofer
- > Belgium: IMEC

LEVEL

Master of Science in Chemistry.

PROGRAM DURATION

2 years (120 ECTS).

ADMISSION REQUIREMENTS

Candidates must fulfill the following:

Applicants should hold a Bachelor's degree in Science/Technology or Engineering (Physics, Chemistry, Materials Science) or its equivalent within the year of application.

LANGUAGE REQUIREMENTS

This Master program is taught entirely in English. Students whose native language is not English must pass the TOEFL or IELTS exams.

IELTS:

- > Overall Band Score: 6.5
- > Writing Band Score: 5.5
- > Total score: 92 (IBT), 580 (PBT)
- > Writing score: 22 (IBT), 4.0 (PBT)

FEES AND SCHOLARSHIPS

- > European students: 1,000 euros/year
- International students: 8,000 euros/ year
- Costs include institutional tuition fees, insurance and participation in teaching activities (lab courses, MSc research project etc.)
- Students applying for scholarships: mid-February
- Other students (self-funded): mid-May

Strengths



Develop expertise in the field of innovative and sustainable advanced materials.



Meet, study and work with relevant academic and non-academic contacts in the innovation and entrepreneurship ecosystem.



Gain a holistic view on value and process chains.



Acquire transferable skills through modern teaching methods. These transferable skills include: entrepreneurship, negotiation techniques, intellectual property, problem solving, working cooperatively and creatively, co-designing, and life cycle approaches.

Program outline



Labelled by the European Institute of Innovation and Technology (EIT), AMIS is a Master program in Advanced Materials for Innovation and Sustainability which explores the theme of "Substitution of critical or toxic materials in products for optimized performance". It also covers the topics of "Material chain optimization for end-of-life products" and "Product and services design for the circular economy" – all of which are central themes of the AMIS.

The primary focus of the AMIS program is metal and mineral raw materials. Bio-based and polymer materials are studied in view of their substitution potential. Other materials are also analyzed in the context of multimaterial product recycling.

In addition, the AMIS program includes a solid package of courses and project work in innovation and entrepreneurship.



Mobility is integrated within the two-year program, during which students study at two of the consortium partner universities. Upon completion of the program, graduates are awarded 120 ECTS and a double degree delivered by two of the five partner institutions where they studied.

Students begin the Master program at Grenoble INP, Aalto University or T.U. Darmstadt. In their second year, students specialize in another partner university:

> To attend the specialization year offered at the University of Bordeaux, prospective students must attend the first year at either Aalto University or the Technical University of Darmstadt.

Year 2 specializations are the following:

- > University of Bordeaux: Advanced Hybrid Materials: Composites and Ceramics by Design
- > T.U. Darmstadt: Functional Ceramics: Processing, Characterization and Properties
- > Aalto University: Nanomaterials and interfaces: Advanced Characterization and Modeling
- > University of Liège: Nanomaterials and Modeling
- > Grenoble INP: Materials Interfaces: Surfaces, Films & Coatings

Master 1: Basic level competencies.

Mandatory courses in:

- > Fundamentals of materials science
- > Applied materials
- > Modelling tools and materials
- > Innovation, business and entrepreneurship.

Joint collaboration courses with AMIS partners:

- > Inno project I: business model development and the commercialization process of new technologies.
- > Summer camp: a week intensive course working in teams on industry case studies to create and produce new ideas, innovative technologies, improved products or services.
- > Internship: work experience in a company or research organization to develop a solution-focused approach by translating innovations into feasible business solutions and commercializing new technologies.

Master 2: Specialization year.

Mandatory courses in:

> Advanced functional materials with a specialization in material interfaces, nanomaterials, ceramics or hybrids.

Joint collaboration course with AMIS partners:

- > Practical work on various industrial projects integrated with innovation and entrepreneurship contents.
- > Inno project II: a specialized approach on business model development and commercialization process of new technologies.

Master thesis:

> A research and development experience in material science jointly supervized by the home university professors and the host partners. The results of the Master thesis will be defended during a presentation. Certain subjets may lead to setting up a business or a spin-off.

How to apply

Applications may be completed online: www.amis-master.eitrawmaterials.eu

→ And after?

As a resource engineer, students may continue in the following fields:

Freelance and entrepreneurship:

> Create a business or become a consultant

Resource industry:

> SMEs in chemistry, exploration, green energy, machinery and plant construction, metal working industry, ceramics, environmental economy (R&D, product development, management, production, marketing and sales)

Research:

- > Universities, research institutions, lecturer or managerial position
- > Circular economy
- > Production, analytics, management, marketing and sales

And also:

 Science journalism, consulting, project development and management, advisor to policy makers, administration, specialist agencies and media.

Contact

Michael Josse

> michael.josse@icmcb.cnrs.fr

Fleur Lafontaine

> fleur.lafontaine@u-bordeaux.fr







Program factsheet

ACADEMIC COOPERATION

The Master in Light Sciences and Technologies is operated along with the Institut d'Optique Graduate School (IOGS)

Strong partnerships with:

- Canada: Université Laval & Institut National de la Recherche Scientifique (INRS)
- > Germany: Abbe School of Photonics, (FSU Iena)
- > South Korea: Yonsei University
- » Brazil: São Paulo State University (UNESP)

PROGRAM DURATION

2 years (120 ECTS).

LEVEL

- > Master of Science.
- Dual Master degree with the INRS, Canada.

LANGUAGE REQUIREMENTS

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

ADMISSION REQUIREMENTS

Candidates must fulfill the following:

Hold a Bachelor degree in Physics, Chemistry, Biology or equivalent.

FEES AND SCHOLARSHIPS

- > University registration fees (scholarship students exempted): 200-400€
- Specific fees apply for dual Master degrees.

Scholarships available:

- > UBx Grad's in LIGHT S&T.
- > IdEx LAPHIA.
- > Eiffel grants for international students (one year).
- Mobility grants (partner institutions, Erasmus+, local authorities, IdEx Bordeaux).

Program outline

The international Master in Light Sciences and Technologies is part of the University of Bordeaux Graduate Research School. Selected as a French Initiative of Excellence, the program focuses on knowledge and innovation in light sciences and technologies, providing a multidisciplinary environment for first-class research and education.

Students are offered cross-disciplinary trainings with a strong emphasis on innovation and entrepreneurship. They also benefit from individual tutorship throughout all four semesters.

Those who choose to follow the specific dual Master degree with the INRS (Canada) spend part of their two year program at the partner institution. Upon completion of this specific program, graduates obtain a dual Master degree.

Strengths

- > An integrated, interdisciplinary program, provided by both academic and industrial experts. The Master is embedded in a cross-fertilizing research environment, adapted to future professions within photonic industries.
- A cross-cutting and immersive training for students, thanks to the strong involvement of 13 research laboratories as well as industrial R&D centers.
- > A "hands-on" training approach to provide graduates with valuable professional attributes. Training is delivered in state of the art research facilities and infrastructures.
- > Dual Master degree opportunity with Canada.
- > International mobility and/or training within the industrial sector.
- > Support provided by the International Masters program within the Bordeaux "Initiative of Excellence" and the French National Research Agency.

College of Science and Technology College of Health Sciences Light Sciences and Technologies Graduate Program



- > Core courses provide a comprehensive education in laser systems, light matter interaction, photonics, materials properties;
- > Practicum courses introduce experimental techniques in optics, chemistry and biophotonics.

As of the second semester, students carry out an internship and follow a mix of core and specialization courses. They experience practical training, preferably within the industrial sector and/or abroad.

Specialization courses continue during the third semester along with laboratory courses delivered in cutting edge infrastructures and facilities.

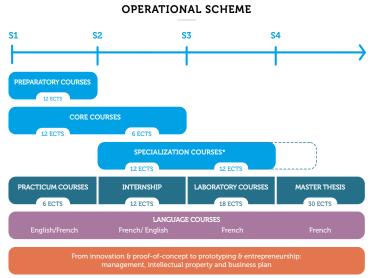
The fourth semester is dedicated to a Master thesis carried out in an advanced research lab.

Preparatory courses:

- > Quantum mechanics
- > Statistical physics & thermodynamics
- > Electromagnetism & electrodynamics
- > Modern optics
- > Introduction to cell biology
- > Optics of materials
- > Mathematical methods

Core courses:

- > Laser physics and non-linear optics
- > Light-matter interaction and spectroscopy
- > Basic concepts of photonics and optoelectronics
- Science of solid state materials



* Specialization courses could be rescheduled between the semester 2 and 4 for international exchange adjustment

Specialization courses:

- > Quantum optics
- Nanophysics
- > Ultrafast-optics and laser processing
- > Extreme lights and their interactions
- > Photochemistry
- > Optical materials design and engineering
- > Advanced topics in microscopy and spectroscopy
- > New light sources and sensors
- > Biophysics
- Introduction to neurophotonics
- > Optical biosensors and actuators
- > Optical medical devices
- > Numerical methods in engineering
- > Image analysis and processing, chemometrics

→ And after?

After graduation, students are fully prepared to pursue doctoral studies and a career in research. They may also work as scientists or R&D engineers within the industrial field.

Associated business sectors:

- > Light sources
- > Laser processing and 3D manufacturing
- Sensors and multi-responsive detection systems
- > Smart and reconfigurable integrated photonics systems based on innovative hybrid nanotechnologies
- > Optical components and devices manufacturing
- > Innovative optical materials
- > Pharmaceutical companies (drug screening and testing)
- > Bio-imaging

Contacts

DIRECTOR: Prof. Brahim LOUNIS

> brahim.lounis@u-bordeaux.fr

ACADEMIC OFFICER: Prof. Emmanuel d'HUMIERES

> emmanuel.dhumieres@u-bordeaux.fr

PARTNERSHIP OFFICER: Prof. Evelyne FARGIN

> evelyne.fargin@u-bordeaux.fr

Academic research domains:

- > Extreme Regimes of Light
- > Light Generation Manipulation & Detection
- Light Imaging & Biophotonics

Other opportunities:

- > Teaching, education and dissemination of scientific knowledge
- > Linking public and private actors in research, development and marketing
- > Participating in the purchase and investment of scientific equipment

How to apply?

www.u-bordeaux.com/Education/Admissions









ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- > Hold a Bachelor degree with four years of study in any field (240 ECTS equivalent), or have completed the first year of a Master within the domain of Science and Technology.
- > This international Master concerns students who have completed four years university studies and who wish to receive professional training in the area of Enterprise Modelling, Integration and Interoperability, with the goal of developing an international career.

Admission is decided according to the diploma. If necessary, candidates are convened for an interview (face-to-face or via Internet).

LANGUAGE REQUIREMENTS

English: candidates must possess a good level of listening and writing in order to follow lectures and pass exams.

LEVEL

International Master.

PROGRAM DURATION

1 year (60 ECTS).

TUITION FEES

3000€ including social security and health insurance.

Program outline

The Master of Enterprise Engineering program is organized over one year corresponding to semesters 9 and 10 (year 5) of the overall university education cycle.

Training takes place in France (Bordeaux) and is dedicated to the teaching of Enterprise Engineering. The first semester (September to December) is concerned with lectures, exercises and practical work; the second semester (January to July) is concerned with projects and an internship (within a company or a research laboratory).

The Enterprise Engineering program benefits from the expertise of the Industrial Engineering research group at the IMS laboratory, University of Bordeaux. This expertise is well recognized at national and international levels in the field of industrial engineering.

The Productics group has developed and maintained close relationships with the industrial world for more than 35 years.

Lectures, exams and internship report are conducted exclusively in English. The courses are validated by written and/or oral exams, and the internship is subject to a report/memoir and a presentation in front of a jury.

Once the Master studies are completed, graduates obtain a Master Degree of the University of Bordeaux, an official national diploma in France.



Semester 1

SEPTEMBER TO DECEMBER

- > Information System and Interoperability (ISI) (6 ECTS) - Compulsory
- > Enterprise Modelling (EMO) (6 ECTS) - Compulsory
- > Production Management (PMT) (6 ECTS) - Compulsory
- > Performance and Continuous Improvement (PCI) (6 ECTS) - Compulsory
- > Supply Chain Management & Networked Enterprise (SCM) - (6 ECTS) - Compulsory

Semester 2

JANUARY TO JULY

- > Scientific Conferences and/or Projects (COS/PRO) (6 ECTS) - Compulsory
- > Internship: Professional/Research (STA) (24 ECTS) - Compulsory

Strengths



This international Master aims at training high level executives in the Enterprise System.



Students are capable of modelling, analyzing, designing and implementing organizational, technical and software application solutions to improve the performance of manufacturing and



Students may work and develop their careers in an international, professional environment, in particular within the context of industrial collaborations across the

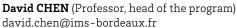
→ And after?

Employment opportunities mainly concern companies (large companies as well as small/medium companies) that have developed international industrial cooperation.

Job positions are found within the sector of the manufacturing industry as well as the service sector.

Some examples of these positions include: Head of Industrial Management (production, quality, maintenance), Manager of Design, Development and Implementation of Software Applications, Consultant, Project Leader, etc.

Contact



Myriam BOUTGES (secretary) myriam.boutges@u-bordeaux.fr

How to apply?





ACADEMIC COOPERATION

Consortium with the universities:

- > University of Antwerp, Belgium
- > Loughborough University, England
- > University of Deusto, Bilbao, Spain

LEVEL

- Master Degree in Engineering of Sustainable Vehicles awarded by the University of Bordeaux.
- Joint Master Degree in Sustainable Automotive Engineering awarded by the University of Antwerp and the University of Deusto.

PROGRAM DURATION

2 years (120 ECTS).

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- > Hold a Bachelor's degree (equivalent to a minimum of 180 ECTS credits) in a relevant domain (e.g. automative/mechanical engineering).
- Admission is decided according to the diploma. If necessary, candidates are convened for an interview (face-to-face or via Internet).

LANGUAGE REQUIREMENTS

Candidates must provide proof of a sufficiently high level of English. It must be equivalent to the Common European Framework of Reference for Languages of B2.

TUITION FEES

- > 4,500€ for EU students
- > 9,000€ for international students

Program outline

The Joint Master Degree in Sustainable Automotive Engineering (JMDSAE) provides courses in the field of Low Carbon Automotive Engineering and more largely in Electromobility.

The partner institutions have the shared aim of promoting strong cooperation in order to implement the JMDSAE. In particular the objectives are:

Providing students with a broad scientific background and in-depth knowledge of the automotive related fields in order to become independent learners, capable of solving engineering problems in a multidisciplinary way.

- > Preparing graduates for the industry or for further research by equipping them with adequate knowledge and skills related to modern automotive systems.
- > Equipping graduates with the ability to critically evaluate their own work relative to other work in the field in order to establish best global practices.
- Strengthening scientific, teaching and research collaborations within the European Union and other countries.
- > Developing a network of experts in the automotive field with leading academic and industrial partners.



Program structure

The JMDSAE consists of four semesters including an internship and a Master thesis.

Semesters 1 & 2:

University of Antwerp

Term 1: September to December

AUTOMOTION AND ENGINE TECHNOLOGIES

- > Engine technologies and green fuels (6 ECTS)
- Vehicle dynamics (3 ECTS)
- > Electric power subsystem in EV and HEV (6 ECTS)
- > Communication & Entrepreneurship (6 ECTS)

Loughborough University Term 2: January to March

POWERTRAIN

- > Powertrain calibration and optimization (10,5 ECTS)
- > Sustainable Vehicle Powertrains (10,5 ECTS)

University of Bordeaux

Term 3: April to June

ELECTROMOBILITY

- > Design of EV/HEV powertrain (6 ECTS)
- Analysis and modelling technical systems (6 ECTS)
- > Electro-mobility (6 ECTS)

→ And after?

The European Commission estimates 12 million jobs within the European automotive industry. The industry also has strong economic connections to many other developing industrial sectors. There is therefore already a strong and growing need for a qualified workforce in this domain in Europe and throughout the world.

Graduates are expertly qualified to work in R&D departments that focus on the development of hybrid/ electrical vehicles as well as parts of these vehicles as powertrains.

Or:

University of Deusto

Term 3: April to June

FUTURE VEHICLES

- > In-vehicle intelligent transportation (6 ECTS)
- Vibro-acoustic comfort in electric powered (6 ECTS)
- > Lightweight structures (6 ECTS)

Semester 3:

September to January

Compulsory internship in the industry, preferably with associated industrial partners (30ECTS)

Semester 4:

February to June

Research thesis to be supervized by one of the partner institutions (30ECTS)

Strengths

- > This innovative program covers different aspects of the electric/hybrid electric vehicle sector, thus responding to the ever changing energy needs of the automobile industry and the criteria of pollution reduction.
- > Courses cover the latest technological trends and knowledge in the topics of Automotion and Engine Technologies, Powertrain, Electromobility and Future Vehicles.
- each country are available.
- > Classes and internships take place within four different universities / countries, thus providing a rich multicultural background which develops students' ability to
- > Associated partners are leading actors within the automotive field thus providing innovative internship

How to apply?

http://www.master-greendrive.eu/ admission-tuition/admission-procedure/

Contact

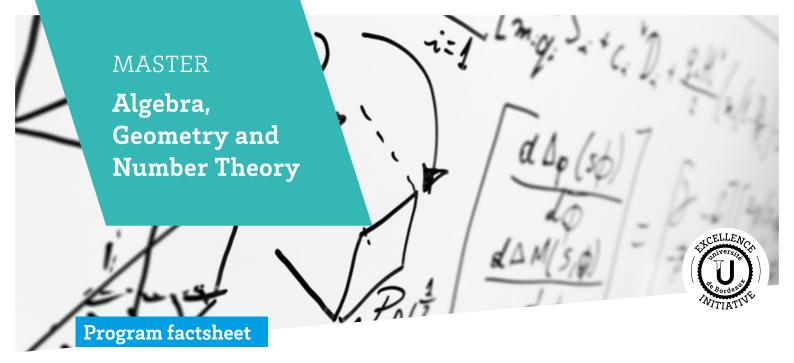
Yves DUCQ (University of Bordeaux) yves.ducq@u-bordeaux.fr

Sofie KROL (University of Antwerp) sofie.krol@uantwerpen.be

http://www.master-greendrive.eu/







ACADEMIC COOPERATION

Part of the ALGANT network (consortium of 10 universities):

- > Canada: Concordia University (Montreal)
- > France: Université Paris-Sud (Orsay), University of Bordeaux
- > Germany: Duisburg-Essen University, Regensburg University
- > India: The Chennai Mathematical
- > Italy: Milano University, Padova University
- > Netherlands: Leiden University
- > South Africa: Stellenbosch University

Students follow this two-year Master course in two of the partner countries and, upon completion of the course, are awarded a double degree from the two universities.

LEVEL

Double/multiple Master degree of Science in Mathematics.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

> Hold a Bachelor degree of Science in Mathematics or an equivalent degree.

LANGUAGE REQUIREMENTS

> A good level of English is required.

PROGRAM DURATION

2 years (120 ECTS).

TUITION FEES

4,000€/year. A fee waiver may be granted.

Program outline

The ALGANT Master program provides a study and research track in pure mathematics, with a strong focus on algebra, geometry and number theory.

This track may be completed throughout Europe and the world, thanks to a partnership between leading research universities.

The ALGANT course introduces students to the latest developments within these subjects, and provides the best possible preparation for their forthcoming doctoral studies.

Program structure

The ALGANT program consists mainly of advanced courses within the field of mathematics and of a research project or internship leading to a Master thesis.

Courses are offered in: algebraic geometry, algebraic and geometric topology, algebraic and analytic number theory, coding theory, combinatorics, complex function theory, cryptology, elliptic curves, manifolds. Students are encouraged to participate actively in seminars.

The university partners offer compatible basic preparation in the first year (level 1), which then leads to a complementary offer for more specialized courses in the second year (level 2).

Each partner university offers a range of courses for the ALGANT program. For detailed information on the structure of the program in the different universities, please consult the partner university websites. You may also consult the ALGANT website (currently being updated).

In Bordeaux, the ALGANT program is structured as follows.



SEMESTER 1

- > Modules et espaces quadratiques (9 ECTS)
- > Théorie des groupes (6 ECTS)
- > Analyse complexe (9 ECTS)
- Analyse fonctionnelle (6 ECTS)

SEMESTER 2

- > Géomérie (6 ECTS)
- > Théorie des nombres (6 ECTS)
- > Théorie et distributions spectrales (6 ECTS)
- > Probabilités et statistiques (6 ECTS)
- > Cryptologie (6 ECTS)
- > Algèbre et calcul formel (6 ECTS)

Year 2

Note: courses are taught in English and the content is redefined each year. For details, please consult: www.u-bordeaux.fr and www.u-bordeaux.com

SEMESTER 1

- Number theory (9 ECTS)
- > Algorithmic number theory (6 ECTS)
- > Geometry (9 ECTS)
- > Elliptic curves (6 ECTS)
- Algebraic geometry (9 ECTS)
- > Analytic number theory: advanced course 1 (6 ECTS)

SEMESTER 2

- > Cohomology of groups: advanced course 2 (6 ECTS)
- > The key role of certain inequalities at the interface between complex geometry (6 ECTS)

Strengths



> Courses given by academic experts within the field of mathematics.



> Individually tailored study



> Top-quality scientific provided by leading global

Supported by the IdEx - International Master program of the Bordeaux Excellence Initiative.

→ And after?

Students who successfully complete the ALGANT program will be well equipped to pursue a career in research by preparing a Ph.D.

They may also directly apply for positions as highly trained mathematicians, especially in the areas of cryptography, information security and numerical communications.

How to apply?

Applications may be completed on-line:

University of Bordeaux,

France



Contact

GENERAL COORDINATOR:

Peter Stevenhagen, Leiden University

COORDINATOR OF ALGANT-BORDEAUX:

Christine Bachoc

Contact for application and further information:

masterALGANT@math.u-bordeaux1.fr

www.u-bordeaux.com/www.algant.eu

@univbordeaux punivbordeaux







ACADEMIC COOPERATION

Collaboration with:

- Ecole Nationale Supérieure des Sciences Agronomiques de Bordeaux (France)
- > University of Tsukuba (Japan)
- > Hangzhou Normal University (China)
- National Taiwan University (Taiwan)
- Pontifical Catholic University of Chile (Chile)
- > University of Cincinnati (USA)

LEVEL

Master degree (Year 2).

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

Hold a Master (Year 1) degree (60 ECTS) in any field related to biology with majors in molecular biology and/or biochemistry

LANGUAGE REQUIREMENTS

English: certifiable equivalent of TOEFL score of 550/213/79-80 or IELTS score of 6.0.

PROGRAM DURATION

1 year (60 ECTS).

TUITION FEES

Master tuition fees applicable for the University of Bordeaux.

Program outline

The Bordeaux Biology AgroSciences Master (B2AS) Master is part of the University of Bordeaux Master program and is developed with the support of the French National Institute for Agronomy (INRA) and the Bordeaux AgroScience Engineer School.

The B2AS program offers an integrated multidisciplinary approach that is adapted to the realities of research (background research) as well as to the socio-economic sector (professional courses).

The program objectives are to train and equip researchers and professionals to face the issues posed by agriculture in the 21st century. This is achived by integrating plant biotechnology and agrofood technology within course content in order to deal with the challenges of innovation in agriculture.

With such an integrated approach, the Master B2AS represents a meeting point between academia and professionals. During the program, students may specialize either in the field of plant biology, biotechnology, plant breeding, genetics, plant and human health benefits, food production and innovation.

The wide partner network provides students with a range of complementary expertise. This means that specific competencies are developed within the chosen field of biotechnology and plant breeding for agriculture improvements.

Strengths

During their studies, students will:

- > Acquire scientific knowledge in various fields of plant biology, green biotechnology, food supplements, food production, etc.
- > Receive a modern research based training.
- > Develop an understanding of the challenges of modern agricultural practices in a context of environmental constraints and increasing demand.
- Develop an understanding of the benefits and limits of modern biotechnology.
- Acquire the skills to develop action planning processes for bioscience.

- Acquire skills and practice within an English-speaking environment as well as other languages practised within the consortium
- > Develop the necessary skills to collaborate with international teams and networks.
- > Acquire competencies for knowledge transfer to students and collaborators.
- > Develop competencies to create, finance and manage a new start-up.
- > Acquire an understanding of today's industrial and economic environment within the Biotech sector.



Semester 1

Scientific English (3 ECTS)

- > Students will reinforce and develop the reading, writing, listening and speaking skills relevant to a biological science research context.
- > Students will acquire knowledge of the linguistic and discursive features of both written and spoken scientific English.
- > Structure and rhetoric of the research article, writing up an abstract. Oral scientific presentation – students prepare a mini-symposium on the topic related to their future work placement (and thus complete relevant bibliographical and reading research in preparation).
- > Students are evaluated on their communication skills in English and also on their ability to manage complex scientific concepts in English.

Plant development and reproduction (3 ECTS)

Genetic regulation of root and stem apical meristem functioning, epigenetic regulations of plant development and reproduction, parental imprinting, plant hormones, fruit and seed development, sex determination in plants, cellular mechanisms involved in plant organ growth and development.

Metabolism and cellular compartmentation (3 ECTS)

Metabolism and cell compartmentation: morphodynamic organization of the plant secretory pathway, lipid and protein machineries; membrane transporters in plants and the related methods of study; lipid signaling in plant cells; formation and dynamics of membrane domains; regulation of metabolism and gene expression by sugars in plants. Nature and importance of futile cycles in plants.

Biotechonology (3 ECTS)

In vitro culture and applications, plant transformation and applications to crop plants, GMO legislation and traceability, metabolic engineering, GMO and production of antibodies and of molecules of high health value, GMO in the food industry, fungi biotechnology.

Plant pathogen interactions (3 ECTS)

Plant-Mollicutes interactions, plantvirus interactions: analysis of plant and virus factors necessary for virus cycle, viroids; RNA interference, plant defence mechanisms against pathogens (fungi, bacteria and virus), breeding of plants resistant to pathogens, biodiversity of plant pathogens, epidemiology of plant pathogen interactions and impact on crop production.

Plant breeding (3 ECTS)

Principles of selection and genetic gain, response to selection, germplasm resources, collecting, analysing, classifying, international rules on germplasm resources. Population improvement and cultivar development (breeding for lines, hybrids, clones, populations), high throughput phenotyping, breeding strategies and methods including molecular breeding (MAS, genomic selection) and biotechnologies, multiple traits selection, genotype by environment interaction, protecting varieties and intellectual property, plant breeding international network and organization.

Quantitative and population genetics and evolution (3 ECTS)

Population genetics and genetic diversity, haplotype structure, domestication and genetic consequences, linkage disequilibrium, genetic variance, estimating variance components, heritability, genetic correlations, association genetics, genomic selection, induced diversity TILLinG, natural diversity ecoTILLinG, linking genetics, genomics and bioinformatics: from finemapping to gene cloning; genotyping by sequencing.

Semester 2

Laboratory practice (6 months / 30 ECTS)

In a public laboratory and/or a private company laboratory.

→ And after?

The objectives of the B2AS program are to prepare students for further study via PhD programs and/or careers in the food and agronomy industry throughout the world. This is achieved by providing high-level training in plant sciences but also by preparing students with relevant knowledge and skills in management and business.

Graduates may apply for positions in the following industrial sectors in a R&D laboratory as well as in production activities:

- > Plant research laboratories
- > Plant breeding companies
- > Agro-chemical companies
- Green and white biotechnology companies
- Food, diet and nutrition companies
- > Plant medicinal production companies
- Food supplement or nutraceutical companies
- > Pharmaceutical companies
- > Business trade companies

How to apply?

Exchange students:

Please refer to the following link: http://www.u-bordeaux.com/ Studying/Applying-Registering/ Within-an-Exchange-Program

Other students:

Please send the following documents: CV, cover letter, description of the Master (Year 1 major and minors (or equivalent), English level certificate (TOEFL or IELTS) and two reference letters to Pr. M. Hernould:

hernould@bordeaux.inra.fr

Contact

PROGRAM COORDINATOR:

Michel Hernould: hernould@bordeaux.inra.fr

PATHWAY PROGRAM COORDINATORS:

- > philippe.gallusci@bordeaux.inra.fr
- > rolin@bordeaux.inra.fr
- > valerie.schurdi-levraud@u-bordeaux.fr

www.master-bio-agro-bordeaux.com



Program factsheet

ACADEMIC COOPERATION

International partners:

 University of the Basque Country, Bilbao, Spain (Genetics, Physical Anthropology and Animal Physiology Department).

LEVEL

Master of Science in Bioinformatics.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

 Hold a Bachelor degree with honours, or the equivalent to four years of study (240 ECTS) in the field of biology.

PROGRAM DURATION

2 years (120 ECTS).

TUITION FEES

Master tuition fees applicable for the University of Bordeaux.

LANGUAGE REQUIREMENTS

A good level of English is required.

Program outline

The revolution in high-throughput sequencing technologies has led to the acquisition of gigabytes of data sequences and has generated new challenges in this latest era of "omics" data.

To exploit and analyze this data, the contribution of bioinformatics is essential and impacts the practices of training future biologists. A high level of computer skills is now essential to be able to use relevant software applications dedicated to "omics" data, while simultaneously enhancing the understanding of life science.

In this context, the Master of Bioinformatics of the University of Bordeaux and the *titulo propio* "Bioinformatics and Omics" of the University of the Basque Country has developed an international Master's program that offers a combined training of metagenomics and bioinformatics.

The Bioinformatics and Omics (BAO) international Master is a complete two-year program. It provides combined training with a double mobility period – Bordeaux (France) for the first semester and Bilbao (Spain) for the second.

Strengths

- > This international program is based on the metagenomics data expertise of the University of the Basque Country, and also on the teaching experience of the University of Bordeaux.

 This experience concerns the teaching of bioinformatics to biologists (as for the Master of Bioinformatics).
- > The BAO Master is a two-year post-graduate program, taught entirely in English, and designed to meet the new challenge of analyzing complex "omics" data at the interface of bioinformatics.



The fall semester takes place in Bordeaux, France.

Students from the universities of Bordeaux and Bilbao learn basics in computer programming in order to be able to:

- > analyze large and complex datasets,
- > build applications that can make predictions from data,
- > create systems that adapt and improve over time.

The spring semester takes place in Bilbao, Spain.

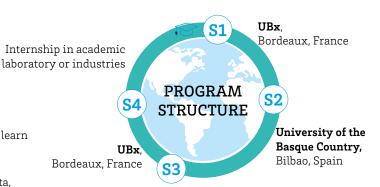
Students from the universities of Bordeaux and Bilbao gain skills in biological experimental data with the possibility of specializing in different fields ranging from biomedicine to ecology.

→ And after?

This interdisciplinary and international program offers many employment opportunities given the high demand in the academic sector (CNRS, INRA, INSERM, etc.) and private companies (biotechnology, pharmacology, agronomics or food science) to address new Big Data challenges that have resulted from the revolution of new technologies.

Upon completion, students may pursue a doctoral degree, or may be recruited as engineers in laboratories working on structural biology, molecular biology, pharmacology and bioinformatics.

Private biotechnology pharmacology, agronomics and/or food science companies are also interested in recruiting post-graduate students with a double competence in biology and computer science, strengthened by an international experience.



Master 2

The fall semester takes place in Bordeaux, France.

Students from the universities of Bordeaux and Bilbao:

- > exploit their skills in programing to learn/develop informatic solutions for the analysis and exploitation of omics data,
- have the ability to specialize in different fields in biology, ranging from biomedicine to ecology. They may choose several case-based courses in biology.

The spring semester is dedicated to an international internship ranging from 4 to 6 months, in a private company or in an academic laboratory aboard.

How to apply?

Students may apply online:

Keep in mind!

- > Maximum number of students: 10



Contacts

Patricia THEBAULT

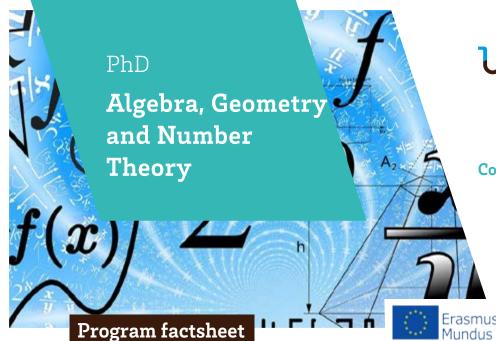
thebault@labri.fr

Jean-Christophe TAVEAU

jc.taveau@cbmn.u-bordeaux.fr

https://master-bioinfo-bordeaux.github.io





université de BORDEAUX

College of Science and Technology

University of Bordeaux,





ACADEMIC COOPERATION

Part of the ALGANT network (consortium of 10 universities):

- > Canada: Concordia University
- > France: Université Paris-Sud (Orsay), University of Bordeaux
- > Germany: Duisburg-Essen University, Regensburg University
- > India: The Chennai Mathematical Institute
- > Italy: Milano University, Padova University
- > Netherlands: Leiden University
- > South Africa: Stellenbosch University

ADMISSION REQUIREMENTS

Candidates must have:

› An academic Master degree (minimum 5 years) in a mathematics program.

LEVEL

Double/multiple Doctoral degree in Mathematics.

PROGRAM DURATION

3 years (180 ECTS).

LANGUAGE REQUIREMENTS

The teaching language is 100% English.

> Thorough proficiency in English is required and must be proven.

TUITION FEES

Fees are calculated according to the national/university rules.

Program structure

The ALGANT-DOC doctoral program, set up by the ALGANT consortium, is a collaborative scheme creating ideal conditions for the production of high level research in pure mathematics. It leads to a double and/or joint doctoral degree, prepared under joint supervision at a minimum of two partner institutions.

Strengths



> ALGANT consortium supervisors are very active within the field of research. Doctoral candidates thus profit from their many connections with research centers throughout the world.



> Candidates are awarded a double or joint nationally recognized doctorate degree.

→ And after?

With ALGANT-DOC, the doctoral candidates will acquire the expertise and skills needed to pursue a career at the highest academic level.

How to apply?

Online application through the ALGANT consortium website.

Places are announced

> www.algant.eu

Contact

Program coordinators

Prof. Boas Erez and Prof. Vincent Koziarz doctoratealgant@math.u-bordeaux1.fr





Functional Materials for Energy, Information Technology & Health

Program factsheet

ACADEMIC COOPERATION

Consortium of 9 universities:

- Begium: Université Catholique Louvain, Université de Liège.
- **> Canada**: University of Waterloo.
- > France: Institut Polytechnique de Grenoble, Université de Cen Basse-Normandie, Université Pierre et Marie Curie Paris, University of Bordeaux.
- > **Germany**: Technische Universitat Darmstadt.
- > Portugal: Instituto Superior Tecnico Lisbon.

European Multifunctional Materials Institute (EMMI) www.emmi-materials.eu

LEVEL

Double doctoral degree in Functional Materials.

PROGRAM DURATION

3 or 4 years (180 or 240 ECTS).

ADMISSION REQUIREMENTS

Candidates must have:

A Master in material science or physical chemistry / chemistry / engineering with a speciality in the field of materials.

LANGUAGE REQUIREMENTS

The teaching language is 100% English.

> English: certifiable equivalent of TOEFL score of 550/213/ 79-80 or IELTS score of 6.0

TUITION FEES

Erasmus Mundus scholarship holders

- ➤ The fellow receives a living allowance (salary) on a monthly basis according to the conditions laid down in the employment contract (2,800€/month gross salary).
- > He/she is hired by the home institute (where the research project is mainly conducted).

- Depending on their nationality, PhD candidates may obtain a travel allowance:
 - Non-European students, not eligible for the 12-month rule: 7.500€
 - > European students in the case the research project includes mobility in a third country: 3,000€
- No fee is required from the doctoral candidate with an Erasmus Mundus fellowship.
- The departments in which the doctoral candidate performs his/her research also cover expenditures related to the candidate's research activity.

Non-scholarship holders

The amount of the gross salary will depend on the funding (scholarships from the partner institutions and from local authorities).

Program outline

The IDS FunMat program is an international, high-quality doctorate in Functional Materials covering the domains of energy, information, technology and health

This program is built upon the expertise of nine universities, leaders in the field, and 17 associated partners (companies, research governments and organizations, and training consultancies).

The consortium provide a large scope of research projects (34 laboratories involved), and includes international mobility and the participation of industry players.



The common elements of all projects

- > International and intersectoral mobility: each project is cosupervised by two universities from different countries (see "Academic cooperation"), and the candidate must spend at least six months in each university.
- > Involvement of projects with industry. Most projects also have an industry partner, and interaction and collaboration with industry is a requirement.
- > Duration of the PhD projects should be three years, the maximum duration is four years.

- > Participation of candidates in an annual joint training school. This school lasts five to six days, and covers both scientific training and "transferable skills" such as Project Management, Intellectual Property Rights, Presentation Techniques etc.
- > Preparation of an annual laboratory seminar and short written report.
- > Submission of one or more scientific publications in refereed journals.
- > Participation in an international scientific conference with an oral or poster presentation by the candidate.

The PhD degree is finally obtained with the submission of a thesis, and an oral presentation before a committee, both delivered in the English language.

Strengths



> International high-quality doctorate program.





> Participation of key industrial players.

→ And after?

After completion of this PhD, graduates may start working as scientists in universities, research centers and R&D units within companies.

How to apply?

Online application: www.idsfunmat.u-bordeaux1.fr

Contact

PROGRAM COORDINATOR:

Laurent Servant

laurent.servant@u-bordeaux.fr

Audrey Sidobre

www.u-bordeaux.com

audrey.sidobre@u-bordeaux.fr

University of Bordeaux, France



TOMORROW'S SUCCESS



Health Sciences



Program factsheet

ACADEMIC COOPERATION

Consortium of three partner universities:

- > University of Bordeaux (France)
- > National Taiwan University (Taiwan)
- > University of Tsukuba (Japan)

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- > Hold a Bachelor's degree with honors, or 4-year / 240 ECTS equivalent in any field,
- 1 or 2 years of professional experience in the field of international health.

LEVEL

Joint Master degree.

PROGRAM DURATION

2 years (120 ECTS).

LANGUAGE REQUIREMENTS

> English: certifiable equivalent of TOEFL score of 501/173/61, TOEIC score of 600, or IELTS score of 5.0.

TUITION FEES

 Master tuition fees applicable for the University of Bordeaux.

Program outline

This program trains students to become international professionals with the skills to carry out research and development in order to meet societal needs. Topics covered include the global-scale problems prevalent today in health maintenance and food security. The program tackles this challenge from a perspective that "food is medicine," or in other words, that both medicine and food originate from the same source and both preserve health.

Students benefit from the collaboration between three universities and spend at least one semester in each university. The program starts at the University of Tsukuba for the first semester, the National Taiwan

College of Health Sciences
College of Science and Technology

University for the second, followed by the University of Bordeaux for the third. For the final semester, students may choose one of the three universities.

In addition to the coursework delivered by each university, students also partake in field studies, corporate internships, laboratory practice and entrepreneurship training, provided by each establishement.

Classes and all other educational activities are taught in English.



Three universities jointly organize the curriculum so that students acquire advanced knowledge and methodologies related to medical and agricultural sciences. They are also equipped with a global outlook that comes from practical training extending across Asia and Europe. The curriculum consists of the following subjects:

- > Foundation subjects,
- > Specialized subjects I,
- > Specialized subjects II.

At the University of Bordeaux, the Agro BioMedical Science International Master provides students with cutting-edge, research-based training in plant science, biotechnology, health, nutrition, and food production. Teaching covers the latest developments in toxicology, cancer, drug discovery, global health, applied translational microbiology, global food security, animal based food stuff, nutrition, agriculture, crop production, green biotechnology, omics and bioinformatics tools.

Upon completion of the program, students are asked to present a comprehensive report on integrated themes including research results or plans for community / social action related to health and food. This report should be based on the overall learning from the twoyear educational program. The presentation and oral examination are conducted in English.

Strengths

During their studies, students:

- > Acquire fundamental knowledge and skills regarding food security and health maintenance on a global scale.
- problems to implementing effective and innovative food security and health
- > Develop skills in order to in international activities.
- > Develop their capacity to create and innovate thanks to a mix of interdisciplinary knowledge and advanced
- > Develop competencies to work for human and social perspective and cross cultural adaptability.

→ And after?

- > Graduates may go on to complete a PhD program, in the fields of plant science, plant biotechnology, global health, applied translational microbiology, global food security, animal based food stuff, nutrition, agriculture, etc.
 - Graduates may carry out their PhD in one of the three universities involved in the academic cooperation, or in various Higher Education Institutes around the world.
- > Graduates may apply for positions in companies that specialize in private breeding, as well as those specialized in food and nutrition, the extraction and valorization of plants and natural products, global health, applied translational microbiology, the development of sustainable agriculture practices, quality and safety of food production, etc.

How to apply?

PROGRAM COORDINATOR:

Dominique Rolin: dominique.rolin@u-bordeaux.fr

www.master-bio-agro-bordeaux.com/agro-biomedical





COOPERATION

Collaboration with European universities and experts from regulatory bodies and the pharmaceutical industry.

ACADEMIC PARTNERS

- France: University of Bordeaux (academic coordinator)
- Italy: Università della Campania Luigi Vanvitelli, Napoli
- The Netherlands: Erasmus Universitair Medisch Centrum Rotterdam / Universiteit Utrecht
- > Spain: Universitat Autònoma de Barcelona
- > U.K.: University of Hertfordshire

INDUSTRIAL PARTNERS

- › Belgium: Amgen / Janssen Pharmaceutica / UCB Pharma
- Denmark: Novo Nordisk / Lundbeck
- > Finland: Orion Corporation
- > France: Iqvia / Sanofi
- › Germany: Bayer Pharma / Boehringer Ingelheim International

- > Spain: Almirall
- > Sweden: AstraZeneca
- > Switzerland: Hoffmann-La Roche AG / Novartis Pharma
- › U.K.: Eli Lilly / GlaxoSmithKline Research and Development / Shire

REGULATORY PARTNERS:

- > European Medicines Agency
- Agence Nationale de Sécurité du Médicament et des Produits de Santé

LEVEL

Joint Master of Science degree. European qualification supported and recognized by the Eu2P regulatory and industrial partners.

PROGRAM DURATION

- > 2 years (120 ECTS).
- Direct access to second year for postgraduate with epidemiology, pharmacology and statistics knowledge.

ADMISSION REQUIREMENTS

Year 1 requirements:

 Bachelor degree in Health or Life Sciences.

Year 2 requirements:

Postgraduate degree in Health or Life Sciences along with additional knowledge and experience in statistics, epidemiology and pharmacology.

LANGUAGE REQUIREMENTS

Non-native English speakers must provide a certificate proving a minimum of English B2 level according to the "Common European Framework of Reference for Languages" grid (European Union and Council of Europe, http://europass.cedefop.europa.eu).

TUITION FEES

The tuition fees only change according to full-time professional or student status but do not vary according to location

- > Professionals: 12,000€/year
- > Students: 7,000€/year

No additional costs and no mobility required.

Program outline

The aim of the Eu2P Master in Pharmacovigilance and Pharmacoepidemiology is to respond to the growing need for well-trained professionals in pharmacovigilance and pharmacoepidemiology highlighted by industry, regulatory and academic bodies.

There is a particular need for skilled people, trained in medicine risk-benefit assessment, risk management plan elaboration, risk minimization and risk communication. Eu2P-trained professionals are qualified for new job profiles such as project managers, pharmacoepidemiological coordinators, risk-benefit analysts and people able to interact with statisticians and clinicians.

Eu2P is designed for:

- > Non-specialists.
- Graduate and postgraduate students in Health and Life Sciences.
- > Healthcare professionals.
- > Companies, regulatory agencies and academic institutions.



The Eu2P Master offers six high level curricula track specializations to meet specific professional needs in:

- > Benefit assessment of medicines
- > Medicines risk identification and quantification
- > Medicines benefit-risk assessment
- > Medicines and public health
- > Medicines risk communication
- > "A la carte" track

Year 1 60 ECTS

- Validation of mandatory basis modules for Pharmacovigilance and Pharmacoepidemiology (24 ECTS).
- > Completion of a tutored project (6 ECTS).
- > Validation of a research project (30 ECTS).

Year 2 60 ECTS

- > Validation of theoretical content (ten modules, 30 ECTS):
- > Six mandatory theoretical modules.
- > + Modules of the chosen track.
- > + Choice of one or two complementary optional modules.
- > Validation of a research project (30 ECTS).

Each Master student must conduct a research project in parallel to the theoretical training during the academic year. This research project may be carried out within an academic, regulatory or private body. If the student is already employed, he/she may complete the research project for the employer.

Strengths



100% online, open to all professionals or students throughout the world. The Master may be completed at work or at home, you do not need to travel as even the examinations are online. 70% of our students are professionals and manage their Eu2P diploma while they work full or parttime, it's up to you!



Research projects may be performed in public or private environments.



The Eu2P European Master is built and recognized by all 24 academic, regulatory and industrial Eu2P partners. The courses are based on today's job market and practices.



Increasing worldwide recognition for the Eu2P program as an excellent employment opportunity and also a way of improving regulatory sciences.

→ And after?

- Opportunities that involve collecting, monitoring, researching, assessing and evaluating information from healthcare providers and patients on the adverse effects of medications to ensure that drugs on the market are safe for patients and to identify new hazards associated with the medication.
- > Students are generally in either full or parttime employment and are likely to have a range
 of responsibilities, mostly in pharmacovigilance
 and medical information, monitoring safety
 data in either pre- or post-marketing studies or
 from spontaneous reports. Pharmacovigilance
 is an expanding area, primarily due to an
 increase in regulation and product withdraws
 based on safety concerns.
- Following registration to Eu2P, students are invited to join the Alumni group via which they regularly receive job offers from all over the world.

How to apply?

Applicants must complete the on-line application procedure on the Eu2P program website:

> www.eu2p.org

Master applications may be submitted from February to June. Selection is made during the first two **weeks of July.**



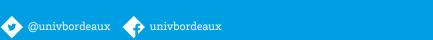
Contact

PROGRAM MANAGER: **Dr. Karine Palin** eu2p.office@eu2p.org **www.eu2p.org**











Program factsheet

ACADEMIC COOPERATION

Consortium of two partner universities:

- > France: University of Bordeaux
- > Morocco: Mohammed V University Rabat

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirement:

> Hold a first level Master in pharmacy or 4 years study in chemistry, biochemistry or engineering.

LEVEL

Master degree: 2nd year.

PROGRAM DURATION

1 year (60 ECTS).

LANGUAGE REQUIREMENTS

> English: certifiable equivalent of TOEFL score of 550/213/79-80 or IELTS score of 6.0

TUITION FEES

- > 6,000€ for EEA students and 8,600€ for non-EEA students. Fees include accommodation and flights for the international mobility period in Morocco.
- Scholarships: Erasmus Mundus Act. 2, partnerships (students), University of Bordeaux Initiative of Excellence, Aquimob.

Program outline

This second year Master degree allows students to deepen their theoretical and practical knowledge in the field of analytical control of drugs and health products that are based on plants. It focuses on the quality control of such health products compared to international standards.

The Master degree also aims to increase the safety of therapeutic products that are based on plants and which are therefore not concerned by the pharmaceutical circuit controls.

The program thus develops a strong interdisciplinary dimension through the involvement of pharmaceutical sciences, technical sciences and the legal domain.



Semester 1

Education units in Bordeaux

- > Validation (1 ECTS)
- > Access to Euro- Mediterranean market of drugs and other health products (3 ECTS)
- > Microbiology control and quality (2 ECTS)
- > Drug design & pharmaceutical technology for drugs and natural products (3 ECTS)
- > Quality control applied to drugs (3 ECTS)
- > Research and analytical development (3 ECTS)
- > English & communication skills (3 ECTS)
- > Quality by Design & Chemometry (3 ECTS)



University of Bordeaux,

Mohammed V University - Rabat, Morocco

Education units in Rabat-Morocco

> Project management: drug control and natural products (9 ECTS)

Semester 2

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

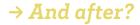
Strengths



and other specialties to acquire strong skills in analytical chemistry for drugs and natural products.



Includes "hands-on" qualification training for key techniques using the latest equipment from the university laboratories for chemical



- Graduates from the School of Pharmacy of the University of Bordeaux have an excellent employment record.
- Graduates may access leading positions within pharmaceutical organizations; the cosmetics and food industry in France and around the world.

How to apply?



Develops global knowledge about analytical and regulatory problems related to counterfeit drugs and health products.

Contact

PROGRAM COORDINATOR:

Dr Boutayna Rhourri-Frih boutayna.frih@u-bordeaux.fr

- +33 (0) 5 57 57 46 86
- +33 (0) 5 57 57 56 21







Program factsheet

ACADEMIC COOPERATION

The Master in Public Health Data Science is promoted by the Bordeaux School of Public Health (ISPED), the Bordeaux Population Health Research Center (BPH) and the University of Bordeaux, in partnership with Bordeaux Montaigne University, Sciences Po Bordeaux, Inserm, Inria.

ADMISSION REQUIREMENTS

Candidates must fulfill the following:

Hold at least a Master (year 1) degree with honors (minimum 240 ECTS or equivalent) in one (or more) of the following disciplines: statistics, informatics or epidemiology.

LEVEL

Master (year 2) of Science in Public Health Data Science

LANGUAGE REQUIREMENTS

This program is taught entirely in English. Excellent proficiency in English is therefore required.

Students whose native language is not English must provide a TOEFL or IELTS certification:

> TOEFL score of 550/213/79-80 or IELTS score of 6.0.

PROGRAM DURATION

1 year (60 ECTS), including an internship.

FEES AND SCHOLARSHIPS

- > University registration fees: 400€ (approximately)
- > Student Life Contribution: 90€ (to be paid to the CROUS regional student assistance office)

Strengths

Epidemiology

> Translation of a public health/clinical problem into a research question, including the design of the research experimental studies (i.e. clinical trials), the evaluation of validity and causality of an association.

Statistics

analysis and modelling of biomedical data (including highdata mining, data integration, advanced computational

Informatics

interoperability, knowledge representation (terminologies, ontologies), natural language processing, data visualization, programming, cloud computing and Hadoop, linked open data, security, confidentiality and integrity of data.

Program outline

The Master in Public Health Data Science provides a year of international research into public health data science, from project design to real life health data analysis and the communication of results.

Covering multidisciplinary skills in epidemiology, informatics and statistics, the program ensures that students gain strong knowledge about the strengths and limits of digital technologies and their use in public health research.

College of Health Sciences

Digital Public Health

université BORDEAUX Graduate Program

Semester 3

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 4

Value creation (6 ECTS)

> This final course prepares students so that as graduates, they are capable of becoming immediate contributors in the workplace whether it be in the academic or the industrial sector.

Students learn to develop their entrepreneurial skills and also acquire an understanding of the societal and economic value created by digital public health data research.

Internship (24 ECTS)

> Students may complete their internship either with the research team that generated a project case study during the Public Health Data Science Master program or else with a new team from the extensive research network of the Graduate Program.

→ And after?

Upon completion of this Master in Public Health Data Science, students may continue with further studies and research via a PhD in Digital Public Health or they may enter the working world with strong qualifications for a career in public health.

Graduates not only have a global vision of data science issues in relation to epidemiology and public health, they also master the research and leadership skills that are necessary for chief data officer jobs. They are thus well prepared to become future leaders of the digital public health domain within the public and / or private sector.

Contacts

COORDINATOR: Prof. Rodolphe THIEBAUT

- > dph@u-bordeaux.fr
- > www.facebook.com/DPHgraduateprogram/

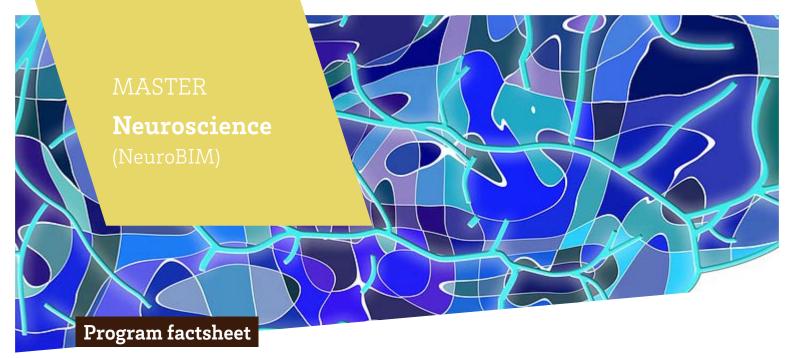
How to apply?

This Master program is supported within the framework of the PIA 3 (Investments for the Future). Project reference: 17-EURE-0019

STARTS TODAY



TOMORROW'S SUCCESS www.u-bordeaux.com



ACADEMIC COOPERATION

Collaboration with:

- Neurasmus consortium (Erasmus+ Master program of Neuroscience).
- > University of Tsukuba (Japan).
- Other partner universities from the USA, Canada, Europe.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- > Hold a Bachelor's degree (180 ECTS) or equivalent degree in biology, biochemistry, biomedical sciences, medical studies, pharmacy, cognitive sciences or psychology with a strong interest in Neuroscience.
- > Candidates with a Bachelor's degree

in another subject (chemistry, physics, maths, computer science) must provide documented interest in the field of Neuroscience.

> Excellent grades are expected.

LANGUAGE REQUIREMENTS

Proficiency in English is required. Candidates should have adequate knowledge of written and spoken English, equivalent to B2 according to the CEFR.

LEVEL

Master degree.

PROGRAM DURATION

2 years (120 ECTS).

TUITION FEES

Master tuition fees applicable for the University of Bordeaux.

SCHOLARSHIPS

- International mobility for traineeships is supported by Aquimob mobility scholarships and NeuroBIM (Bordeaux International Master of Neuroscience) IdEx grants.
- > Students completing their traineeship in a laboratory of the University of Bordeaux receive a monthly stipend (around 500€) during the traineeship.

Program outline

High standards

The Bordeaux International Master of Neuroscience emphasises training in cutting-edge techniques in all major topics of brain research, from molecules to cognition. Its main objective is to foster Neuroscience education and train new brain scientists, by offering a unique interdisciplinary and integrated approach from normal brain function to brain disorders.

Excellent teaching

In Bordeaux, about 30 professors and lecturers in Neuroscience are involved in teaching as well as many neuroscientists and colleagues specialized in psychology, cognition, modeling, physiology, genetics, medicine, brain imaging, etc.

Top research / traineeships

Neuroscience in Bordeaux has grown over the last 15 years to become one of the largest Neuroscience scientific communities in France and in Europe, with over 600 people working in the various Neuroscience laboratories of the University of Bordeaux.

In order to meet the most important challenges facing Neuroscience research, all these laboratories are grouped within a virtual institute, called the Bordeaux Neurocampus, a multidisciplinary consortium of world-renowned scientists. Bordeaux Neurocampus offers, together with our international academic partners, excellent opportunities for traineeships.

Interaction with the professional sector

Students have access to Pharma multinationals for traineeships through internationally oriented consortia such as Pierre Fabre, Sanofi-Aventis, Glaxo-SmithKline etc.



International mobility is highly recommended for at least one of the two traineeships. Mobility fellowships are provided upon application.

Year 1:

Semester 1: September-January (30 ECTS)

Compulsory courses

- > Scientific Communication (3 ECTS)
- > Statistics and Neural Modelling (3 ECTS)
- > Tutored Project (3 ECTS)
- > Functional Neuroanatomy (5 ECTS)
- > Neurophysiology (4 ECTS)
- > Molecular Neurobiology, Development & Neurogenetics (4 ECTS)
- > Neuropharmacology (4 ECTS)
- > Higher Brain Functions (4 ECTS)

Semester 2: January-June (30 ECTS)

> Laboratory Internship

Year 2:

Semester 3: September - January (30 ECTS)

Compulsory courses

- > Research Project Literature Survey & Methodology (9
- Industrial Research (3 ECTS)

Optional courses

- > Cellular and Molecular Neurobiology (6 ECTS)
- > Cognitive Neuroscience (6 ECTS)
- > Pathophysiology of Neurological & Psychiatric Diseases (6 ECTS)
- Neural Networks (6 ECTS)
- Addiction (6 ECTS)
- > Experimentation in Behavioural Studies (6 ECTS)
- > Pharmacology of Psychotropic Drugs (6 ECTS)

Semester 4: January-June (30 ECTS)

Master Thesis Project

Strengths



Advanced scientific education and training with innovative and interdisciplinary brain research methodology.



M

faculty staff.

Opportunities for international mobility.

→ And after?

> After graduation, students have access to career opportunities in the industrial sector, in clinical research or may carry out further fundamental research as PhD students.

Training through original research.

How to apply?

Contact

COORDINATORS:

Prof. Daniel Voisin: daniel.voisin@u-bordeaux.fr Prof. Jacques Micheau: jacques.micheau@u-bordeaux.fr

SECOND YEAR OF THE PROGRAM:

Dr. Elena Avignone: elena.avignone@u-bordeaux.fr Prof. Denis Combes: denis.combes@u-bordeaux.fr

www.bordeaux-neurosciences-master.univ-bordeauxsegalen.fr



ACADEMIC COOPERATION

Collaboration between five partner universities:

- > Canada: Université Laval
- > France: University of Bordeaux
- › Germany: UMG Universitätsmedizin Göttingen Charité, Universitätsmedizin Berlin
- Netherlands: Vrije Universiteit Amsterdam

Associated members:

Janssen Pharmaceuticals; Sartorius Stedim Biotech SA; Roche Pharma; Flying Health; Innoki; Caterna; Otto Bock; Biotronik; Osmunda; Sanofi; Scriptorium Consulting; Canadian Neuroimaging Platform (supported by Brain Canada, a national funding agency); Berlin Institute of Health; SPARK Berlin.

PROGRAM DURATION 2 years (120 ECTS).

Program outline

A European Master in Neuroscience: advanced courses and research training.

The Neurasmus program is a full-time Neuroscience study program offering a unique interdisciplinary and integrated approach of normal brain functions and diseases. It strongly emphasizes training in cutting-edge techniques in all major topics of brain research, from molecules to cognition.

The Neurasmus curricula are completely embedded in international-oriented local Master programs of the partner universities. Each program features among the best and most reputed national programs in Neuroscience.

* See website for details and information on what defines program and partner country students.

TUITION FEES

- Available scholarships: Erasmus Mundus student scholarships
- > Self-funded program country students*: 2,250€ per semester (9,000€ for the 2 year-program)
- > Self-funded partner country students*: 4,500€ per semester (18,000€ for the 2 year-program)

TEVET

Double / multiple MSc in Neuroscience. A Neurasmus joint diploma supplement is additionally awarded by the consortium.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- > Hold a Bachelor's degree (180 ECTS) or a qualification in natural sciences.
- A solid basic knowledge in general cell biology, as well as the basics of chemistry and biochemistry, physics and math is required.
- > Excellent proficiency in English.

LANGUAGE REQUIREMENTS

- Candidates who completed their education in Canada, USA, UK, Ireland, New Zealand, South Africa, or Australia, do not need to provide an English certificates.
- All other applicants (incl. candidates who hold a Bachelor or Master degree taught in English) need to provide evidence of their English language skills with any one of the following test scores:
 - > IELTS: 6.5 (no score below 6), Paper-based TOEFL: 580, Computer-based TOEFL: 237, Internet-based TOEFL: 92, Certificate of Advanced English: B/C, Certificate of Proficiency in English: B/C.

The Neurasmus program is an Erasmus Mundus Joint Master Degree developed under the Key Action 1 of the Erasmus+ program. Action 1 fosters cooperation between higher education institutions and academic staff in Europe and Third Countries with a view to creating poles of excellence and providing highly trained human resources. Joint programs of outstanding academic quality are designed and implemented by a consortium of European universities from at least three different countries. Consortia may also include universities from other parts of the world.

Programs include obligatory study and research periods, in at least two universities, and award recognized double or multiple degrees.



At the application stage, students choose the main track they wish to follow. This defines their first year mobility.

> Track 1: Neurogenomics (120 ECTS)

Semester 1 and 2

Students are introduced to the

core curriculum (core courses).

Research projects involve

a written laboratory report.

different domains of Neuroscience and

they need through a commonly agreed

research projects (laboratory rotations)

in different participating departments.

experimental work, data analysis and

provided with the basic knowledge

In addition, every student conducts

Core curriculum

- > Track 2: Neuropharmacology (120 ECTS)
- > Track 3: Imaging and Neurophysiology (120 ECTS)
- > Track 4: Clinical Neuroimaging and Translational Neuroscience (120 ECTS)
- > Track 5: High Resolution Imaging (120 ECTS)

Depending on the track chosen, students spend their first and second semesters in Amsterdam / Göttingen / Berlin /

Semester 3

Advanced courses

The choice of the advanced courses (30 ECTS), in association with the initial track, will define the subspeciality training obtained by the student.

The Board of Education agrees on the first, second or third wish according to the selection ranking and intake capacity of partner institutions.

At the end of the first semester, students choose a subspecialty which defines the partner university(ies) for the 2nd year. It is part of the student's Personal Training Plan (PTP). Students have up to the end of first year / start of third semester to choose the subject of their Master Thesis. Students then spend their third and fourth semesters in one or two locations: Amsterdam / Göttingen / Berlin / Bordeaux / Laval.

Semester 4

Master Thesis

Students complete a six month research project or industrial placement leading to a Master Thesis (30 ECTS). It takes place in a location defined according to the Personal Training Plan. This location must be chosen in collaboration with the affiliated partner university.

Strengths

Scientific education and training with innovative and interdisciplinary brain research methodology.

experimental work and data analysis.

Common workshops bringing together students and university representatives.

Small classes and close contact with faculty staff.

International learning environment with high-level mobility opportunities.

→ And after?

- > On completion of the Master program, students are qualified candidates for different exchange and training PhD programs currently available among the consortium members.
- Graduates will have also the possibility to pursue their studies at PhD level at any of the consortium graduate schools (www.enc-network.eu) or at any other research institution worldwide.
- > Graduates interested in starting a career within the business sector, benefit from the industrial network of the consortium.

How to apply?

Contact

COORDINATION OFFICE neurasmus@u-bordeaux.fr

Program Coordinator: Prof. Agnès Nadjar - Administrative Manager: Florina Camarasu

Neurasmus Application Helpdesk

All questions linked to the application process (help with the online application form, inquiries about admission & eligibility criteria, etc.) must be addressed to: neurasmus-application@u-bordeaux.fr

www.neurasmus.u-bordeaux2.fr



COOPERATION

UNIVERSITIES IN EURO-MEDITERRANEAN COUNTRIES:

- > France, Italy, Poland, Spain, Sweden.
- > Egypt, Lebanon, Morocco, Tunisia.

LEVEL

Master degree.

PROGRAM DURATION

2 years (4 semesters, 120 ECTS).

Program outline

This international Master program specializes in neurobiology and biotechnology, providing high-level, interdisciplinary neuroscience training with an emphasis on innovative e-learning methods.

High-level, interdisciplinary training in neuroscience is conducted with students studying theoretical concepts together with a broad range of experimental methods used in biotechnology and biomedicine.

Individual projects in neuroscience and biotechnology are carried out, requiring the elaboration and communication of scientific data and concepts. Students also master the competencies necessary to implement modern techniques and manage complex, experimental set-ups.

Note: the Master program is supported by an Erasmus+ European grant within the Strategic Partnership program (Neuronline project) as well as a grant from the Bordeaux Initiative of Excellence.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

 Hold a Bachelor in Life Science or three years study/ 180 ECTS equivalent in the field of Biomedical Science.

LANGUAGE REQUIREMENTS

Courses are taught in English and /or French. Candidates should have a B1 level of English or equivalent.

TUITION FEES

Annual tuition fees for EU / non EU students:

> According to the student's home university.

Teaching follows standards of excellence and is provided by international experts of the consortium. This consortium offers a large variety of top-level research labs for student training. In addition, consortium partners extend this offer with opportunities in their laboratories. Throughout their study and training, students develop connections and network across Europe and the Mediterranean region. EMN-Online follows the European system of postgraduate studies with equivalent credit value. The courses and

EMN-Online follows the European system of postgraduate studies with equivalent credit value. The courses and evaluation procedure are identical within all partner universities.



Year 1

Semesters 1 and 2

Acquisition of general concepts:

- > Cellular Neurobiology
- > Functional Neuroanatomy
- > Neural Basis of Cognition
- > Mechanisms of Neurological Diseases
- > Neuropharmacology
- > Developmental Neurobiology
- > Bioinformatics and Biotechnology
- > Language and Communication

Year 1

Semester 3

Societal implications of neuroscience (economy & bioethics)

Three specialized tracks in basic or applied neuroscience:

- > Molecular and Cellular Neuroscience
- Integrative and System Biology
- > Medical Neuroscience and Neuroimaging

Semester 4

Practical training in an academic lab or a private company

Students may benefit from the consortium network in Europe and the Mediterranean region. Outside the EMN-Online consortium members, hosting labs are located in many countries worldwide including Germany, USA, Canada, Brazil, Australia, etc.

Strengths

International curriculum with identical core courses.

Open to students following initial training and lifelong learning

Innovative teaching based on group work and flipped classroom with modern e-learning tools favoring student autonomy.

Development of a collaborative MOOC on the societal implications of neuroscience.

Specialization tracks based on the expertise of each partner in fundamental or biomedical

A unique, wide-range of complementary competences molecular aspects to in vivo

research labs and easy access to high-level, specialized core

Student R&D projects in academic and industrial fields.

Bilingual teaching and close to promote international, mobility opportunities.

→ And after?

Graduates will be able to continue their studies with research:

Application to the PhD programs currently available in the consortium member's institutions, or in any research institution worldwide.

They may also apply for positions as the following:

Researcher, Service Engineer, Application Scientist, Bio-Medical Engineer, Sale Engineer, Healthcare Executive.

Contact

PROGRAM COORDINATOR:

> Prof. Marc Landry: marc.landry@u-bordeaux.fr

https://emn-online.org/

How to apply?





LEVEL

> PhD in Neuroscience

LANGUAGE REQUIREMENTS

Have an adequate level of English to follow and participate in courses, projects, seminars, workshops, etc.

ADMISSION REQUIREMENTS

- Hold a Master degree in a relevant discipline
- Prove an excellent academic and scientific level
- > Demonstrate previous experience in a research laboratory

FEES AND FUNDING

- → 6 fellowships are offered by the program
- Mobility grants are available upon application
- ➤ Annual university registration fees: approximatively 400€

PROGRAM DURATION

> 3 years (full time)

Program outline

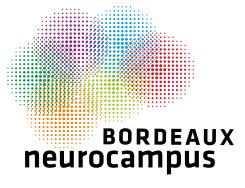
Neuroscience is part of the

The PhD Program in

Bordeaux Neurocampus
Graduate Program, supported
by the University of Bordeaux
Graduate Research School.
The PhD Program takes place
within the research laboratories
of the dynamic neuroscience
community of Bordeaux
Neurocampus.

The program addresses a wide range of topics concerning complex brain functions and diseases. Our teams and partners have diverse as well as complementary expertise, that includes: imaging and biology of neural cells and synapses, animal and human behavior, physiology of neural networks, mechanisms of neurodegenerative and mental disorders.

Multidisciplinary technological approaches and multiscale analyses are employed, at the molecular, cellular, systemic, behavioral, and clinical levels.



PhD students benefit from a variety of educational programs, ambitious training initiatives. international conferences and top quality research facilities.

The International PhD training offer includes:

- > Research projects in Bordeaux Neurocampus laboratories
- > 100 hours of additional courses, with a balance between disciplinary (Neuroscience) and complementary training.
- Monthly PhD seminar series currently organized by PhD students.

> Hands-on training workshops as a trainee or instructor at the Bordeaux School of Neuroscience.

All courses are delivered in English.

Strengths

An integrated, innovative and cross-disciplinary international PhD Program in neuroscience, taking place within a vibrant scientific community:



Expertise of the Bordeaux laboratories covering a wide variety of skills and technologies from basic to applied and translational



> Cutting-edge facilities that feature innovations and provide graduates with hands-



and/or training opportunities.



> Access to international scientific networks via structured academic and industrial partnerships



> Career guidance services to support the professional insertion of

→ And after?

> The PhD Program in Neuroscience prepares students for different career opportunities (research, teaching, project management, scientific mediation, etc.) in the academic as well as the private sector.

How to apply?

- > Online application deadline: July 31st,
- > Starting date: Fall 2018

Admission to the PhD program involves 4 steps:

- 1. Online application: personal details and documents to be provided for pre-selection
- **2. Personal interview** (in person on site at Bordeaux Neurocampus or via Skype): 30 minutes to present academic background, research experience, motivation and arguments justifying the choice of three preferred PhD research projects
- 3. Discussion and final validation with the PhD supervisor
- 4. Pedagogical and administrative registration.

PhD students of the program are enrolled in the Life and Health Science Doctoral School of the University of Bordeaux

CONTACT

neurocampus.graduateprogram@u-bordeaux.fr www.bordeaux-neurocampus.fr







Human Sciences



PROGRAM DURATION

2 years (120 ECTS).

LEVEL

Master of Science (MSc).

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

> Hold a Bachelor's degree in Sport Sciences or a three-year (180 ECTS equivalent) degree in a related field: e.g. marketing, human resources management, communication, etc.

LANGUAGE REQUIREMENTS

- Candidates who completed their education in Canada, USA, UK, Ireland, New Zealand, South Africa or Australia do not need to provide evidence of their English language skills.
- All other applicants should be able to prove a good level of English (level B2). Students with a lower level may be considered on the basis of their academic record.

Program outline

The aim of this Master Program is to provide students with the knowledge and skills so that they may enter the workforce as multi-skilled executives within the field of Administration and Management of Professional Sports Clubs.

A large variety of topics are covered in the program, providing a comprehensive overview of the sector: strategic marketing, operational marketing, accounting, sociology, economics, law, management of training centers, security management, etc.

The AMPSC Master is taught entirely in English by visiting European and international professors and professionals as well as our faculty team of specialists.

Strengths

The program benefits from the support of the International Master program of the Bordeaux Initiative of Excellence (IdEx).



Each class has limited numbers to ensure close supervision and contact with faculty staff.



The Master proposes an international learning environment with mobility opportunities.



Students are supported by strong professional and academic networks.



Attractive mobility scholarships are available for top students.



Students not only improve their own international culture, but also their fluency in English.



Program structure

The program courses are composed of a mixture of lectures and tutorials. The topics covered are listed below. Mobility opportunities are proposed during the internship period that takes place during the Master Year 2, Semester 2.

Year 1:

Semester 1

- > Research methodology (3 ECTS)
- > Public relations and reputation management (3 ECTS)
- > Build, manage and evaluate a project (3 ECTS)
- > Professional sport and social media (3 ECTS)
- > Statistics (3 ECTS)
- > Information technology bibliography (3 ECTS)
- > Internship preparation (3 ECTS)
- > Basics of strategic marketing (6 ECTS)
- > Introduction to accounting (3 ECTS)

Semester 2

- > Economics of professional sports (6 ECTS)
- > Basics of operational marketing (3 ECTS)
- > Qualitative methodologies (3 ECTS)
- > Financial management of professional clubs (3 ECTS)
- > Professional seminars (3 ECTS)
- > Sports institutions law (3 ECTS)
- > Professional or research internship (9 ECTS)

Year 2:

Semester 1

- > Marketing studies and applied research (3 ECTS)
- Marketing of professional clubs (6 ECTS)
- Sociology of professional sport (6 ECTS)
- > Work law (3 ECTS)
- > Security and flow management (3 ECTS)
- Management of training centers (3 ECTS)
- Group projects (3 ECTS)
- > Publishing and visual softwares (3 ECTS)

Semester 2

- > Professional or research internship (27 ECTS)
- Monitoring of Master's thesis (3 ECTS)

→ And after?

- The program prepares students for a broad range of executive positions in Professional Sports Clubs and Professional Sport Organizations.
- > Graduates may also pursue research opportunities if they wish to continue their studies with a PhD program.

How to apply?

Students may apply online:

French students, via the Apoflux platform (University of Bordeaux): > https://apoflux.u-bordeaux.fr/etudiant/

International students, via the following website: > www.u-bordeaux.com/Education/Applying-Registering



This Master program is taught on the Bayonne Campus of the University of Bordeaux:

Campus de la Nive 8 allée des Platanes 64100 Bayonnne

Contact

PROGRAM DIRECTOR

> Dr. Nicolas DELORME: nicolas.delorme@u-bordeaux.fr

ADMINISTRATIVE COORDINATOR

> Aurélie BONNEAU: aurelie.bonneau@u-bordeaux.fr

TW: @Master_AMPSC

Program website: http://master-ampsc.u-bordeaux.fr/

TOMORROW'S SUCCESS STARTS TODAY

Wine Sciences



ACADEMIC COOPERATION

Collaboration between:

- > Institut des Sciences de la Vigne et du Vin (ISVV)
- > University of Bordeaux
- > Bordeaux Sciences Agro (BSA)
- > Kedge Business School

LEVEL

Master of Business and Science degree.

PROGRAM DURATION

2 years, 120 ECTS (four semesters, 30 ECTS/semester).

LANGUAGE REQUIREMENTS

Working proficiency of English (language certificates are not required. Language proficiency will however be verified during a Skype interview).

TUITION FEES

The tuition fees for the Master degree are 10,000 € (per year), to be paid annually. These fees include: registration and general administrative costs, classes and travel costs for study

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements: Hold an undergraduate degree, 3 years minimum (i.e. Bachelor degree, or the equivalent), from an accredited college or university, in a closely related field: Business, Management and Economy, Administration, Marketing, Accounting and Finance, Agronomy / Agricultural Sciences, Food / Plant Sciences and Technologies.

Program outline

The Master of Business and Science in Vineyard & Winery Management provides training in response to new market demands for wine industry professionals who have both technical (viticulture and oenology) and entrepreneurial (business management) skill

The program is designed to further the student's knowledge in business management, viticulture, and oenology. It seeks to complement the knowledge base through an individually structured and flexible curriculum. In an industry that is increasingly competitive, the integration of these skill sets within a company is essential for success.

Program structure

The study program focuses on three main thematic areas:

Business Management: Design and implement a business plan, i.e. operating statement, choice of actions, etc. Structure the legal and/or financial framework of the project. Strategically set priorities and monitor accomplishment of business objectives.

Vineyard Management and Wine Production: Analyze the interactions between soil/climate/plant. Manage the vineyard from plantation to harvest. Understand the science based fundamentals of terroir, choice of plant material, and canopy management through practical experience. Acquire and develop knowledge of oenology and winery technology. Conduct winery evaluations focused on aligning wine production with commercial objectives. Enhance tasting ability and sensory evaluation.

Commercialization: Establish a product price according to economical and technical criteria. Conduct commercial analyses. Hold a cost accounting. Calculate and analyze costs.

Contact / www.agro-bordeaux.fr

Guilherme Martins

guilherme.martins@agro-bordeaux.fr / +33 (0)5 57 35 86 20 Tanya Pardo

tanya.pardo@agro-bordeaux.fr / +33 (0)5 57 35 07 18





→ And after?

> This program prepares students for the MBA program with IAE Bordeaux university school of management as well as for all other Master Year 2programs in management. It also trains and equips students for executive positions in company headquarters or subsidiaries.







ACADEMIC COOPERATION

Joint Erasmus Mundus Master between:

- Rovira i Virgili University (URV), Tarragona, Spain
- > University of Porto (UP), Portugal
- University of Bordeaux (UBx), France

I.EVEI.

Triple Master degree.

PROGRAM DURATION 2 years (120 ECTS).

LANGUAGE REQUIREMENTS

English: certifiable equivalent of TOEFL score of 550/213/79-80 or IELTS score of 6.0

TUITION FEES

- ➤ Fees for program* countries students: 4,500€/year
- Fees for partner* countries students: 9,000€/year

NB: students may follow the WINTOUR program as self-funded students or may apply for one of the Erasmus+ scholarships (EMJMD action) available. These scholarships are designed to cover most student expenses throughout the WINTOUR course.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

Have completed a university Bachelor or Master degree (minimum 180 ECTS) in the fields of Tourism, Economics, Management, Marketing, Languages, Natural and Experimental Sciences (e.g. Oenology, Biotechnology, Food Technology, Agriculture), or closely related subjects.

Personal motivation, prior work experience in the field, as well as linguistic skills in languages other than English (especially Spanish, French or Portuguese, the languages of the organizing institutions) are important elements in the selection process.

LANGUAGE REQUIREMENTS

Candidates must present a recent English language certificate, with at least a B2 level according to the Common European Framework of Reference for Languages (official test certifications from Cambridge ESOL, IELTS or TOEFL are accepted).

*Program/partner countries: please consult our website for the list of these countries.

Program outline

The Erasmus Mundus Master in Wine Tourism Innovation (WINTOUR) offers a truly integrated study program that takes advantage of the tourism and oenology expertise of three universities and regions of Europe.

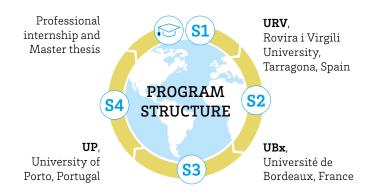
These universities are located in highly attractive touristic areas, recognized with the label of UNESCO Human Heritage, and have a long tradition in wine, producing specialty wines such as sparkling, fortified, aged red and sweet.

The objectives of the WINTOUR program are to:

Prepare broadly trained, highly adaptable, qualified professionals for the tourism and wine industries. These graduates may then promote innovative wine tourism

- developments to generate added value through increased income and recognition of this sector.
- Provide students with multidisciplinary and multisectorial knowledge and training that increases their understanding of wine-making and tourism management.
- > Promote high-quality, practical training in entrepreneurship and company management via the organization of internships within the non-academic sector.
- Ensure the effective integration and networking activities of students within the socio-cultural and professional environment during their period of training.





How to apply?

	Optional subjects	Wine tourism	Wine-making	Wine heritage
S1	 Adaptation of oenology (6 ECTS) Adaptation to geography & economy (6 ECTS) 	 Leisure and marketing (6 ECTS) Marketing of tourism & wine (6 ECTS) 	> Sparkling wine production (6 ECTS)	> Wine heritage & tourism 1 (6 ECTS)
S2		 Management of wine tourism firms and entrepreneurship (6 ECTS) ICT & wine tourism - Oenotourism 2.0 (6 ECTS) 	 Wine appellations knowledge, food and service, tasting (6 ECTS) Aged & sweet wine production (6 ECTS) 	> Wine heritage & tourism 2 (6 ECTS)
S3		 Marketing & oenotourism for festive seasons and overall consumer perspectives (6 ECTS) 	> Practical wine-making (12 ECTS)> Fortified wine production (6 ECTS)	> Wine heritage & tourism 3 (6 ECTS)
S4	Professional internship and Master thesis (30 ECTS)			

Strengths

Managing complex information on different

Defining diagnostics/ efficient management and use of information.

contexts in a creative and

Collaborating with multidisciplinary teams within different contexts.

Communicating complex ideas clearly to all target

Applying ethical principles and social responsibilities

Developing the necessary autonomy to work on research projects within

→ And after?

The WINTOUR program trains professionals in the field of oenology and tourism, who may apply for positions in the following areas:

- Private sector: creation of start-ups and business initiatives with a focus on wine as a tourist attraction and tourism as a means for promoting wine and wine regions; development of international marketing strategies, wine tourism activities of companies within the wine industry; specialized consultancy in the design and development of new strategies for increasing the competitiveness of the wine sector.
- Public administration: positions in public organizations responsible for the planning, management and promotion of wine tourism products at a local, national and international level.
- **Research and teaching:** participation and leadership of multidisciplinary research teams in the fields of oenology and tourism, in public or private research organizations.

Contact

PROGRAM COORDINATORS:

- > Gemma Beltran (URV): gemma.beltran@urv.cat
- > Pierre-Louis Teissedre (UBx): pierre-louis.teissedre@u-bordeaux.fr
- > Laurence Geny (UBx): laurence.geny-denis@u-bordeaux.fr

SECRETARY: master.wintour@urv.cat

www.wintour-master.eu/en index/









Our Welcome Contacts

To find out more information about the study program that interests you, please phone or email the contact indicated on the flyer.

For any questions concerning our exchange programs and studying in Bordeaux, please contact our International Mobility Officers (International Office). Finally, our Student Life Centers also provide information about student life in Bordeaux.

- Science and Technology / Biology
- > Vine and Wine Sciences

International Office:

incoming-talence@u-bordeaux.fr / +33 5 40 00 83 33

Student Life Center:

bve.talence@u-bordeaux.fr / +33 5 40 00 84 84

- > Health / Human Sciences
- Sports and Physical Education

International Office:

incoming-carreire@u-bordeaux.fr / +33 5 57 57 46 77

Student Life Center:

secbve.bordeaux@u-bordeaux.fr / +33 5 57 57 17 79

- > Law, Political Science, Economics, Management
- **School of Education**

International Office:

incoming-pessac@u-bordeaux.fr / +33 5 56 84 29 84

Student Life Center:

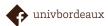
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