

Welcome at



Bordeaux INP

**ENSEIRB
MATMECA**

Dr. Francois RIVET

Director of International Office



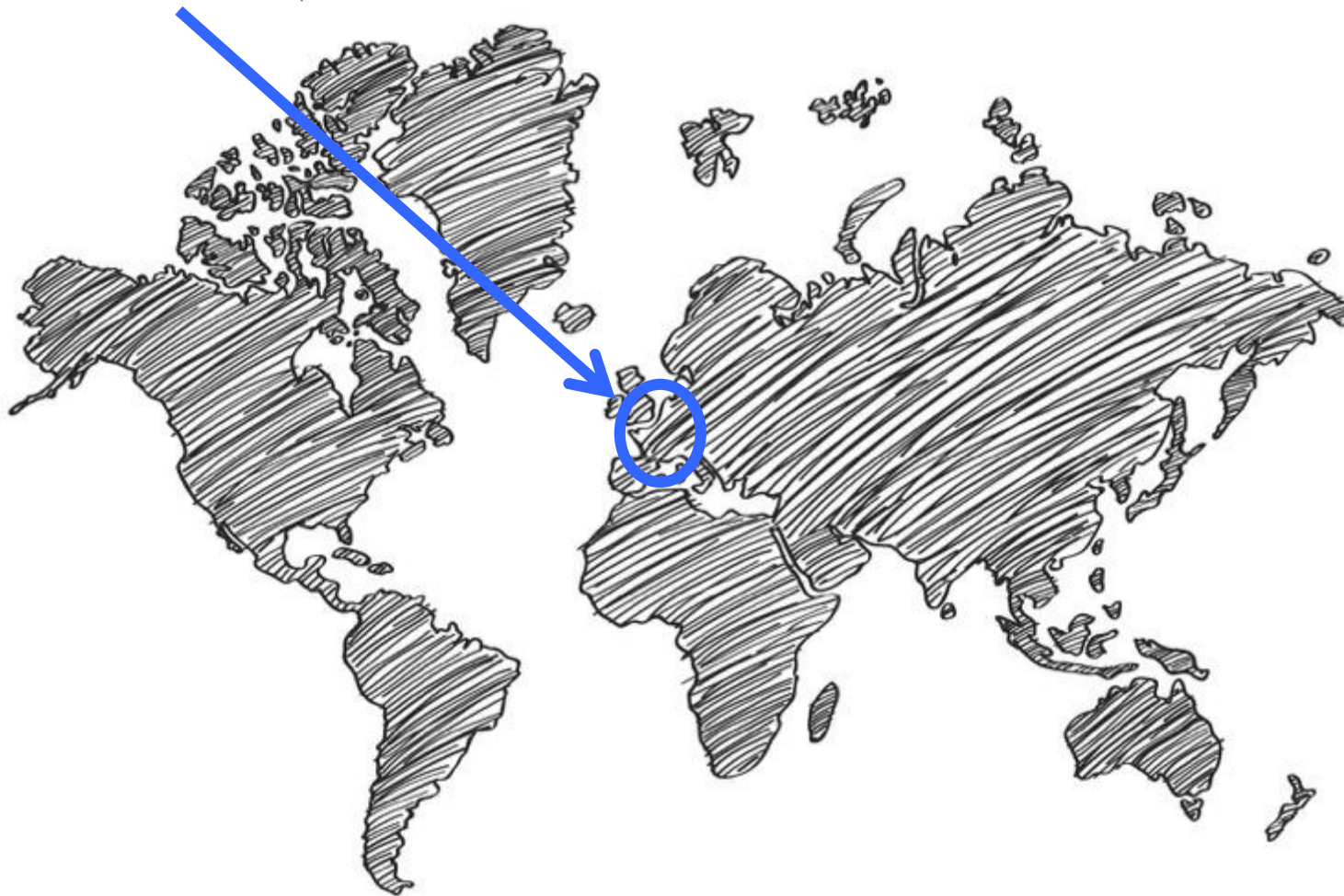
Welcome

at Bordeaux Institute of Technology ENSEIRB-MATMECA

- Why should I go to Bordeaux ?
- What will be my exchange program ?
- I want to study at Bordeaux !
- Let's apply !



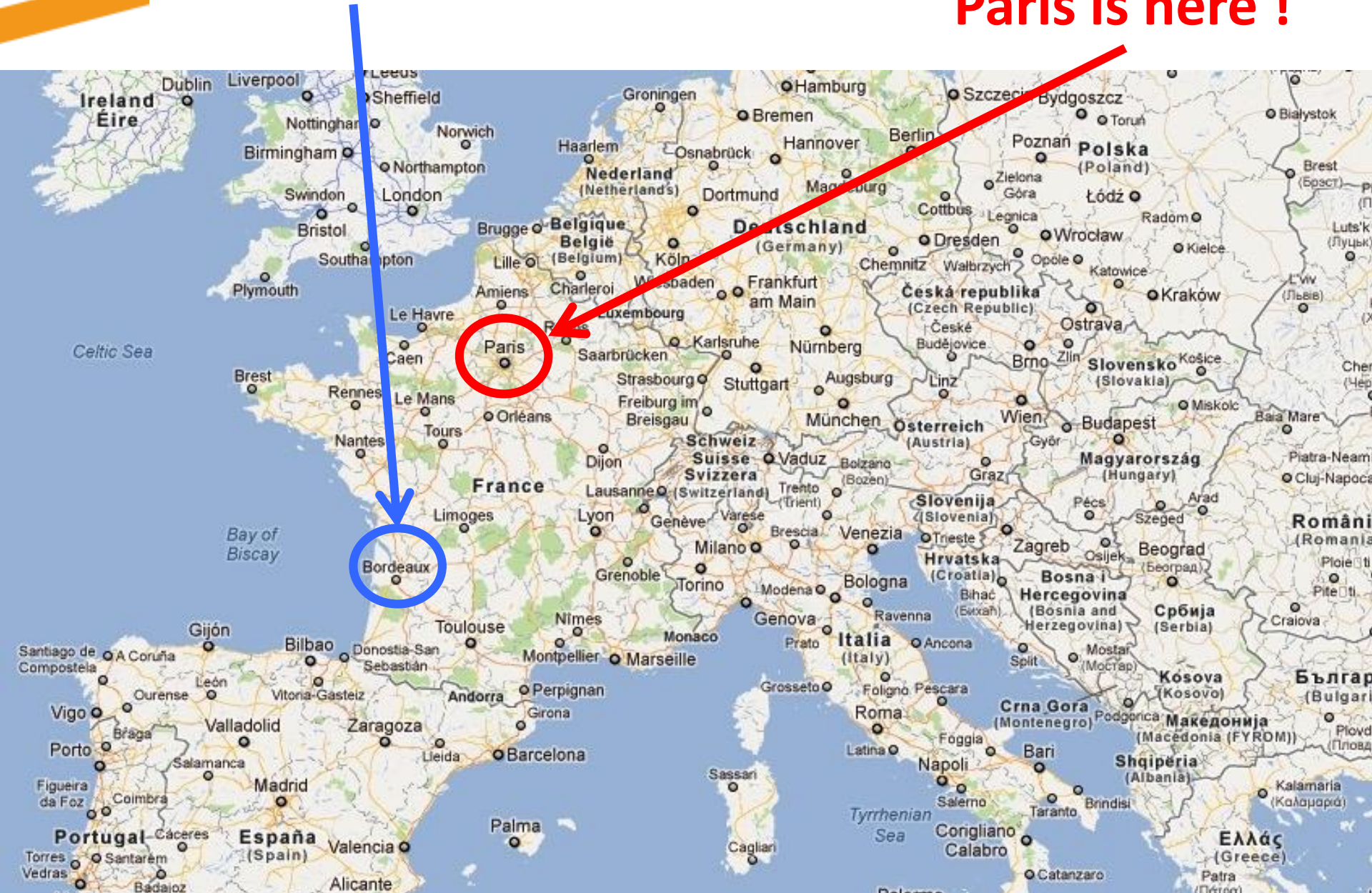
France





Bordeaux in France

Paris is here !



Bordeaux

- **A 1 million inhabitant urban area**
 - Capital city of South West of France
 - 100 000 students in higher education
- **A world heritage city**
 - 2000 years of history
- **A easy way of life**
 - Ground transportation, safety
 - International city



Bordeaux

- **2 hours to Paris**
 - High Speed train (TGV)
- **3 hours to the Pyrenees mountains**
 - Ski resorts
- **45 minutes to Atlantic Ocean**
 - Surf !

Bordeaux has an international airport connected to most European cities (1 to 2 hour flight).





Bordeaux

- **Tremendous cultural life**
 - UNESCO classified city, concerts, cinemas, exhibitions, museums, parks, the « docks »
 - Southwest way of life
 - Wine ...





Bordeaux vineyards



- Bordeaux, one of the most famous wine in the world
- 120 000 acres of vineyards
- 8000 « châteaux » = (open day, tasting, events,...)
- 12000 wine-makers !!!



Bordeaux, silver coast

- **Atlantic ocean**
 - A straight coast, only sand with a direct access to the Atlantic Ocean
- **Do you like surfing ?**
 - Great waves, the place to go surfing in Europe (Lacanau, Hossegor, Biarritz)
- **Do you like oysters ?**
 - The bay of Arcachon with the highest sand dune in Europe (Dune du Pyla)





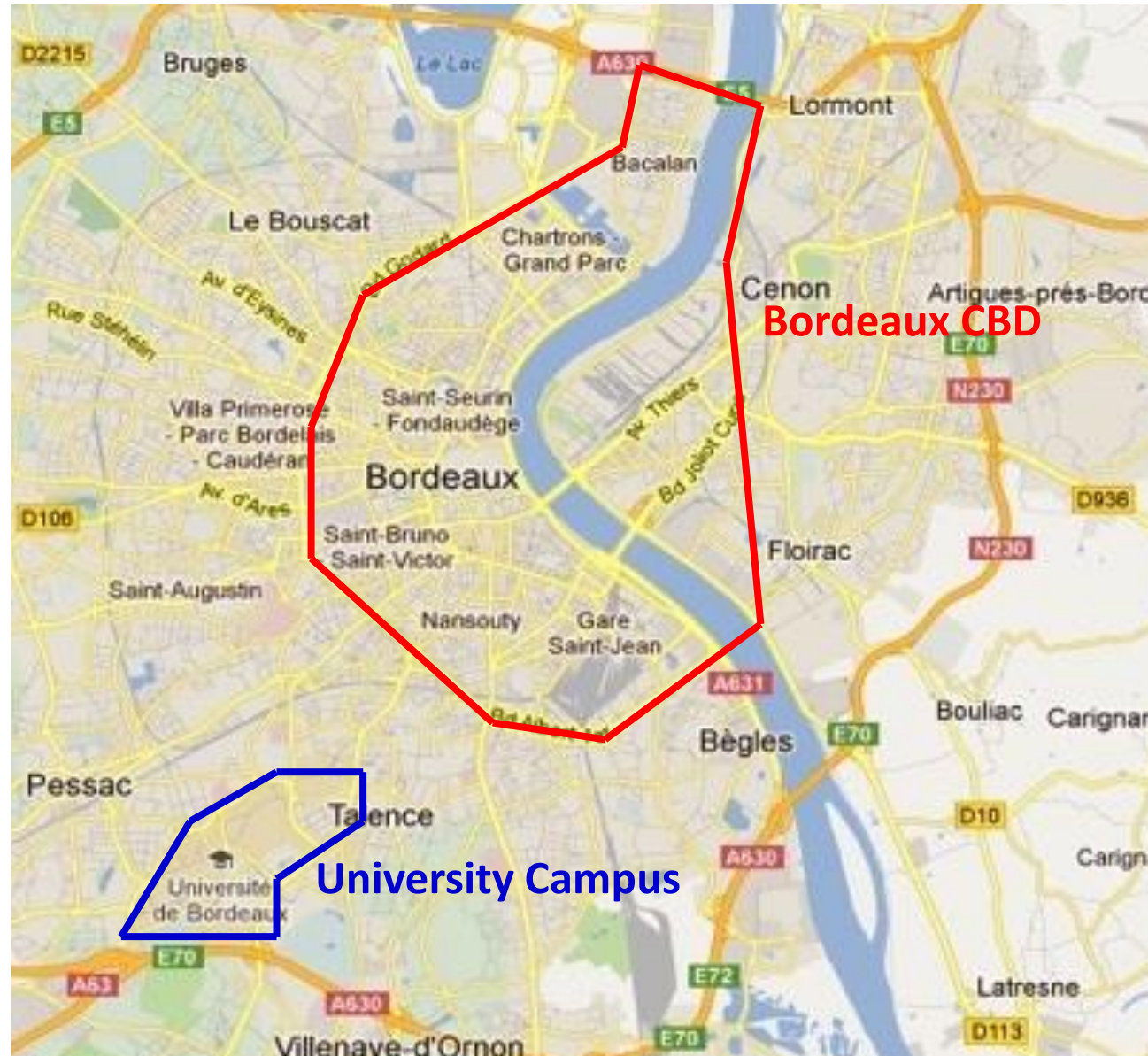
Bordeaux, most attractive city in the world in 2017

Los Angeles Times



The University Campus

- **Close to the city**
 - 15 minutes by tram
 - 1 tram every 5 minutes
- **A single campus**
 - The University of Bordeaux
 - Bordeaux Institute of Technology





Bordeaux from Space





The Science and Technology Campus



The Science and Technology Campus



Haut Brion
Vineyards

Bordeaux
Institute of
Technology



French
Research
Agency

université
de BORDEAUX



ENGINEERING STUDIES IN FRANCE

+8 years
600 ects



université de BORDEAUX

Doctorat
PhD (3 years)

+5 years
300 ects



université de BORDEAUX
Master
Master (3 years)

Ecole d'ingénieurs
Engineering studies (3 years)

Bordeaux INP
AQUITAINE

+3 years
180 ects



université de BORDEAUX
Licence
Bachelor (3 years)

National Exam - Selection

Classe préparatoire
Preparatory course for « Grandes écoles » (2 years)

+2 years
120 ects



Baccalauréat / High School Diploma (USA) / A-Level (UK)



A French Engineering School

- **Is a Public Institution**
 - Access only by merits ...
 - **After** 2 years of intensive mathematics and physics courses,
 - **After** a national exam to be ranked among 10 000 candidates,
 - **After** being selected by a school !
 - Low fees but French government pays for it (15 000€ per year per student)
- **Is a school of excellence**
 - Only the **best** of the **best** are selected
 - 3 years of French touch of engineering
 - Promo limited to 100 students for each specialty, work in groups (under 20)
 - **99.99%** of success in work placement
- **Is a place to build up his future**
 - **French** diploma of engineering is delivered by **French** authorities
 - Equivalent to Master Degree
 - Strength of a network



**We invite you to experience
French engineering**

The logo for Bordeaux INP Aquitaine features a central white circle. From this circle, numerous thin, colorful lines radiate outwards in all directions, creating a sunburst or starburst effect. The colors of these lines include shades of blue, pink, orange, red, green, and yellow. The text 'Bordeaux INP' is positioned to the left of the circle, with 'Bordeaux' in a standard black font and 'INP' in a larger, bold black font. Below 'Bordeaux INP', the word 'AQUITAINE' is written in a smaller, grey, all-caps sans-serif font.

Bordeaux INP
AQUITAINE

Bordeaux Institute of Technology

8 Graduate Schools of Engineering



ENSEIRB-MATMECA
(founded in 1920)
Graduate School of
Electronics, Computer
Science,
Telecommunications,
Mathematics and
Mechanics



ENSTBB (founded in 1994)
Graduate School of
Biotechnologies



ENSC (founded in 2003)
Graduate School of Cognitics



ENSCBP (founded in 1892)
Graduate School of Chemistry,
Biology and Physics



ENSGTI* (founded in 1991)
Graduate School of Industrial
Technologies Engineering



ISABTP*
(founded in
1996)
Graduate School
of Construction
Industry and
Civil Engineering



ENSEGID (founded in 1989)
Graduate School of Environment,
Geo-resources and engineering for
sustainable Development



BSA* (founded in 1963)
Graduate School of
Agronomic sciences

Bordeaux INP
ENSEIRB
MATMECA



Bordeaux Institute of Technology

Some key figures ...

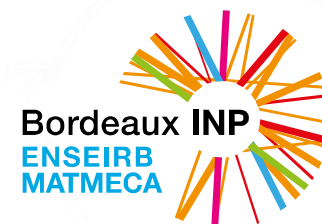
- **One of the largest institute in France**
 - 280 faculty members
 - 8 graduate schools
 - 19 departments
 - 12 joint research centers
- **3.200 students (4 campuses)**
 - 1000 students graduated each year
 - 60 students associations
 - 9 to 14 months of work placement
 - 4 Masters of Science
- **More than 130 international partners**
 - Avg. 12% international students



Bordeaux Institute of Technology

Our major courses

- Biotechnology
- Chemistry-Physics
- Food science and technology
- Cognitive Science
- Electrical Engineering
- Computer Sciences
- Telecommunications
- Mathematical and Mechanical
- Environment, Geological Resources and Sustainable Development
- Agronomic science
- Chemical engineering
- Energy
- Building and public works



ENSEIRB-MATMECA

- **Some key figures**
 - Founded in 1920
 - 1500 students
 - 120 permanent professors
 - 4 research laboratories
 - 350 non-permanent teachers
- **Engineering programs**
 - Electrical Engineering
 - Computer Science
 - Mathematics and Mechanical Engineering
 - Telecommunications





ENSEIRB-MATMECA

Computer Science Dept.

- Software Engineering
- Parallel computing, Regulation et Distributed computation
- Networking and Distributed Systems
- Robotics
- European Studies in Software Verification (*Eng*)

Mathematics & Mechanics Dept.

- Fluid mechanics and energetics
- Material and structures
- Scientific computation

Telecom Dept.

- Digital Communicating Systems
- Networks and Telecommunications Software Engineering
- Networking and Communicating embedded Systems

Electronics Dept.

- Circuits and Integrated Systems
- Radio and Telecommunications Systems
- Signal and Image Processing
- Automatics ,Mecatronics, Automobile, Aeronautics and Space
- Embedded Systems



ENSEIRB-MATMECA

age	World	France
16	High school diploma	
17		
18	Bachelor's degree	"Baccalauréat"
19		Preparatory class
20		
21		Engineering School
22	Master's degree	
23		
24	PhD	PhD ("doctorat")
25		
26		
27		

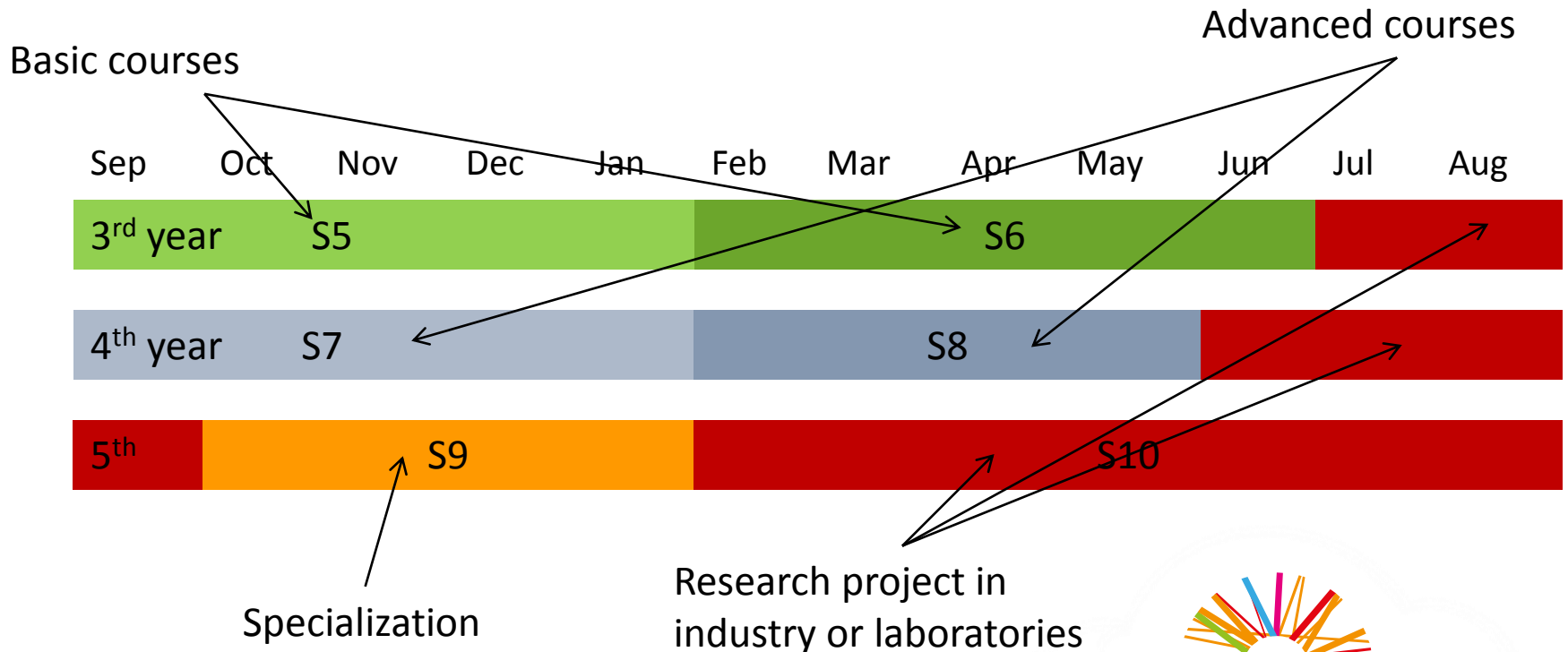
We offer the corresponding levels to:

- 3rd year of Bachelor
- 1st and 2nd year of Master
- Master by research or by course

ENSEIRB-MATMECA

- **Training program overview**

- 3rd year of Bachelor = 3rd year
- 1st and 2nd year of Master = 4th and 5th year



ENSEIRB-MATMECA

- **Technical content**
 - You sit in amphitheaters,
 - You work in small groups,
 - You have practical demo,
 - You have fun in technics !
- **Non-technical content**
 - You learn English,
 - You learn a second foreign language (Chinese, Arabic, Japanese, ... French),
 - You learn management.



Welcome

at Bordeaux Institute of Technology
ENSEIRB-MATMECA

- Why should I go to Bordeaux ?
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- Let's apply !



5 reasons to come at Bordeaux

1

I want to get my French touch of engineering

I want my credits but living a unique experience

2

3

Bordeaux is the coolest place to liveable a part of my life

I am looking for a work placement in Europe

4

5

I am YOUNG and that is the opportunity !

YOLO (You Only Live Once)

Bordeaux INP
ENSEIRB
MATMECA





Go out your comfort zone at Bordeaux



LIFE BEGINS
AT THE
END OF YOUR
COMFORT ZONE

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Our exchange program

I want go to Bordeaux during ...

- Less than 2 months: **Short Term Program**
 - **Research project** in our research centers
 - Bordeaux Institute of Technology **Summer school**
- Less than 6 months: **Mid Term Program**
 - **Research project** in our research centers
 - **Academic Semester** (Master Coursework)
- A complete year and more : **Long Term Program**
 - Double Diploma



Our exchange program

I want go to Bordeaux for ...

- **A research project**

- You study in our research centers
- You work with reknown scientist
- You can get credits !

- **An academic semester**

- You can benefit from specialized international master courses taught in english
- You can get french lessons for free
- You get credits, but a different way ...

- **A Double Diploma**

- 2 semesters and a research project

Bordeaux INP
ENSEIRB
MATMECA



Our exchange program

A brief overview

	< 2 months	> 2 months < 6 months	< 1 year	> 1 year
Research Project	✗	✗	Master of of +	Double +
Academic Semester	✗	✗	Science	Diploma

Welcome

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- I want to study at Bordeaux !**
- Let's apply !





SUMMER SCHOOL

June 25th to July 6th, 2018

Study with us

-

Summer
School

25th of June

-

6th of July



Workshop

French courses

Cultural visits



Design
your own
IoT network !



1000€

including French language
courses, workshop, practical
demonstration, cultural visits,
lunch & transportation within
Bordeaux area.

bordeaux-inp.fr

BORDEAUX INSTITUTE OF TECHNOLOGY





Study with us - Your Academic Semester

Bordeaux INP
ENSEIRB
MATMECA



Study with us – Your Academic Semester

- **What is an academic semester ?**

- A semester is a **complete program** of courses.
- You cannot mix courses from different specialties or options, nor from different year levels.
- You may eventually remove some courses from a semester programme, provided both your home institution tutor and ENSEIRB-MATMECA international department coordinator agree that there is no pre-requisite problem.

- **When, Which, What, How ?**

- When can I come for an academic semester ?
 - From **October to end of January** or from **February to end of May**
 - Apply **before 15th of May** or **15th of October**
- Which level of study ?
 - 3rd year undergraduate students (bachelor) or higher (master).
- What language ?
 - English for international master, otherwise French
- How can I find a semester ?
 - A course program is available online www.enseirb-matmeca.fr or international.eirb.fr



Study with us – Your Academic Semester

- **International Master** taught in english

- Get access to a specialized course program
- From October to January
- Apply before 15th of May
- Includes:
 - Practical demonstration
 - Specialists or worldwide reknown scientists seminars
- A one-month research project can be added in September



- **National Course Program** taught in french

- French level B2 required
- 1 semester from **September/October to end of January** or from **February to end of May/June**
- A complete year from September to June
- Need more details ?
 - A course program is available online www.enseirb-matmeca.fr



International Master Program



Get a French touch of engineering !

1- International Master of Software Verification

- Formal methods applied to software verification and analysis

2- International Master of Software Engineering

- Advanced training in computer science engineering to design, understand, develop and maintain complex software systems

3- International Master of Radio and Telecommunication Systems

- Advanced training in Technologies, Circuits and Systems for Radio and Telecommunications





Study with us - Your Research Project

Bordeaux INP
ENSEIRB
MATMECA



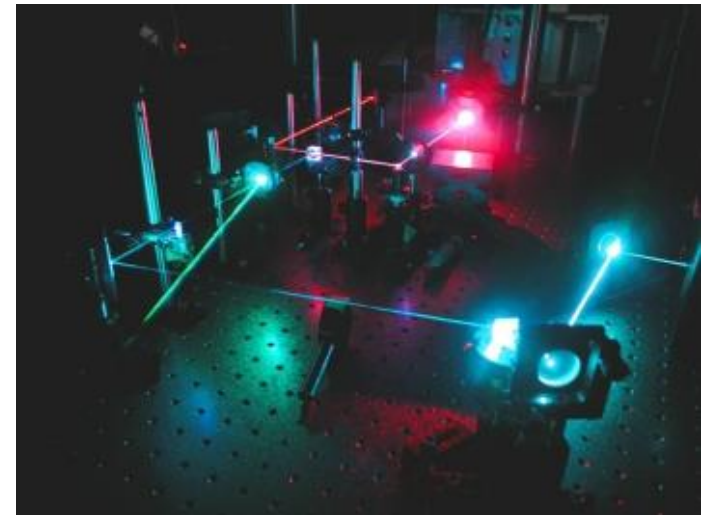
Study with us – Your Research Project

- **What is a research project ?**

- It is an **internship** with a supervisor,
- on a **subject** or area in one of our 4 associated laboratories,
- depending on **your backgrounds**, home study requirements and **personal taste**.

- **When, Which, What, How ?**

- When can I come for a research project ?
 - Whenever you want except August.
- Which level of study ?
 - 3rd year undergraduate students (bachelor) or higher (master).
- What length ?
 - From one week up to 6 months.
- How can I find a supervisor ?
 - An interactive list of potential supervisors is available online.



Study with us – Your Research Project

BORDEAUX INP « GIVE ENGINEERING A FRENCH TOUCH »



VISITING RESEARCH STUDENTS

Choose a scientific experience in electronics, computer sciences, telecommunications or mathematics and mechanics!



Bordeaux INP welcomes you for a visiting research project. You will be supervised by a Professor to achieve a technical or an engineering task during 1 week up to 6 months*. During that time, you are enrolled as student and benefit from school environment including social activities, french lessons and much more ! Contact us, tell us about your wishes and we will organize your visiting research project at Bordeaux.

4 RESEARCH CENTERS

ims www.ims-bordeaux.fr

- MATERIALS, COMPONENTS,
- CIRCUITS, SIGNALS,
- HOMOGENEOUS AND HETEROGENEOUS SYSTEM MODELING,
- DESIGN AND RELIABILITY ANALYSIS

LaBRI www.labril.fr

- COMBINATORICS AND ALGORITHMS,
- IMAGE AND SOUND, LANGUAGES, SYSTEMS AND NETWORKS,
- FORMAL METHODS, BIOINFORMATICS AND DATA VISUALIZATION, ALGORITHMS FOR HIGH PERFORMANCE DIGITAL APPLICATIONS

INSTITUT DE MATHÉMATIQUES DE BORDEAUX www.math.u-bordeaux.fr/IMB

- ALGEBRAIC AND MATHEMATICAL SCIENTIFIC COMPUTING
- NUMBER THEORY, GEOMETRY, ANALYSIS, PARTIAL DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS,
- PROBABILITY AND STATISTICS, SCIENTIFIC CALCULATION AND MODELING, BIOMATHEMATICS

I2M www.i2m.u-bordeaux.fr

- MECHANICS AND ENGINEERING FROM MATERIALS TO CIVIL ENGINEERING,
- INCLUDING DESIGN, MANUFACTURING, TRANSFERS AND CONTROL

* Respecting french regulations

CREATE YOUR OWN PROJECT

What is a research project ?

It is a project with a supervisor, on a subject or area in one of our 4 associated laboratories, depending on your backgrounds, home study requirements and personal taste.

When, Which, What, How ?

- When can I come for a research project ?
Whenever you want except August.
- Which level of study ?
3rd year undergraduate students (bachelor) or higher (master).
- What length ?
From one week up to 6 months*.
- How can I find a supervisor ?
An interactive list of potential subject is available online.



PRE-REQUISITES
English proficiency
GPA 70+
Minimum level is Bachelor 3rd-year

APPLICATION
Deadline: 3 months before arrival

CONTACT
welcme@enseirb-matmeca.fr

APPLY ONLINE AT
international.eirb.fr

BORDEAUX INP
and its partner schools

GIVE
ENGINEERING
A FRENCH TOUCH

7 graduate schools
of Engineering
in France

2800*
students

+900 students
graduate*

12% international
students

17 programs
including
5 by apprenticeship

230
faculty
members

10 joint
research centers

130 partnerships
worldwide

14th
UNIVERSITÉ
NOUVELLE
BORDEAUX
10th
UNIVERSITÉ
MATHÉMATIQUES
DE BORDEAUX

ENSEIRB-MATMECA- Bordeaux INP

Graduate School of Electronics,
Computer Science, Telecommunications,
Mathematics and Mechanics



BEFORE YOUR ARRIVAL

APPLICATION
Online application :
international.eirb.fr

HOUSING
➤ Option to book accommodation in student village
➤ Institutional assistance in paying deposit
➤ List of accommodation available upon request
Students may apply online before June 30.



WE WELCOME YOU

UPON ARRIVAL IN FRANCE
➤ Airport pick-up
➤ Transfer to student accommodation
➤ Welcome upon arrival at ENSEIRB-MATMECA

UPON ARRIVAL AT ENSEIRB-MATMECA
➤ Help with academic involvement
➤ Help with housing (insurance, bond, housing tax...)
➤ Help with administrative procedures

SUPPORT
➤ Mentoring : international students can have a student buddy and participate in dedicated social and cultural events
➤ Faculty tutoring : each student is mentored by a professor during their stay

SOCIAL AND CULTURAL LIFE
➤ Student clubs and special interest groups
➤ Alumni network : Bordeaux Alumni
www.bordeaux-alumni.com

USEFUL INFORMATION
➤ CROUS www.crous-bordeaux.fr
➤ Bordeaux www.bordeaux.fr
➤ Transport www.infotbm.com
➤ Visa bit.ly/Care54jour

CONTACT

International Office
+33 (0)5 56 84 23 65
welcme@enseirb-matmeca.fr
INTERNATIONALEIRB.FR



Bordeaux INP
ENSEIRB
MATMECA





IMS Laboratory – Material & System Integration



Engineering area

Electrical Engineering

Computer Science

Mathematics and
Mechanical Engineering

Telecommunications

- **Research in**

- Materials, Components,
- Circuits, Signals,
- Homogeneous and heterogeneous system modeling,
- Design and reliability analysis

- **Over 400 staff including 140 professors and researchers**

- www.ims-bordeaux.fr





LaBRI: Bordeaux Computer Research



Engineering area

Electrical Engineering

Computer Science

Mathematics and
Mechanical Engineering

Telecommunications

- **Research in**

- Combinatorics and algorithms,
- image and sound, languages, systems and networks,
- formal methods, bioinformatics and data visualization, algorithms for high performance digital applications

- **Over 320 staff including 148 professors and researchers**

- www.labri.fr





IMB: Bordeaux Mathematics Institute



Engineering area

Electrical Engineering

Computer Science

Mathematics and
Mechanical Engineering

Telecommunications

• Research in

- Algebraic and mathematical scientific computing
- number theory, geometry, analysis, partial differential equations and mathematical physics,
- probability and statistics, scientific calculation and modeling, biomathematics
- **250 staff including 152 professors and researchers**
- **www.math.u-bordeaux1.fr**





I2M: Institute of Mechanics and Engineering



Engineering area

Electrical Engineering

Computer Science

**Mathematics and
Mechanical Engineering**

Telecommunications

• Research in

- Mechanics and engineering from materials to civil engineering,
- including design, manufacturing, transfers and control
- **330 staff including 133 professors and researchers**
- i2m.u-bordeaux.fr





INRIA: National Research Institute in Informatics & Automatics



Engineering area

Electrical Engineering

Computer Science

Mathematics and
Mechanical Engineering

Telecommunications

- **Research in**

- A public science and technology institution dedicated to computational sciences
- Inria, the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”.

- **320 staff including 123 professors and researchers**
- www.inria.fr



Study with us – Your Research Project

• Bordeaux Institute of Technology responsibilities

- Available Research Information
 - a list of professors and research project for students
- Selection Process
 - Select appropriate candidate and notify the result
- Accommodation
 - Arrange accommodation for the participants
- Others
 - Provide a certificate for research project on the completion of program
 - Supervise the students during the research project period
 - Financial support



• Your responsibilities

- Prepare your application 3 months before starting research project
 - www.enseirb-matmeca.fr or international.eirb.fr
- Provide all required documentation in due time
 - Administration takes time (visa, accomodation ...)



We welcome you !

- **We pick you up at the airport**
 - International student association takes care of you
- **Easy administrative procedures**
 - Follow-up of visa procedures
 - Quick enrolment in english
 - Efficient security registration process (access badge, research centers specific procedures, ...)
- **We prepare your accommodation**
 - Based on your wishes, we can deal with french organism and lodging institutes to book your accommodation.
- **Have an idea of Bordeaux cost of life**
 - <http://www.enseirb-matmeca.fr/international/student/budget>



How much does it cost ?

Budget	
Fees	0€
Accommodation	200 – 400\$ per month
Food	300 – 500\$ per month
Medical insurance	0 – 50\$ per month
Phone / Internet	30\$ all included (illimited data)
Transportation	20\$ per month
Leisure etc ...	150\$ per month, or more ...
TOTAL	700\$ per month or more

For example: a pint is 7\$, a bottle of good Bordeaux wine is also 7\$!



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3 steps to apply

STEP 1

Application

- **Define your exchange program**

- Contact your institution international office
- Contact us to [make an inquiry](#)
- [Share your application](#) with us as soon as possible (with resume, bio details, transcripts if required, ...)

- **What are the deadlines ?**

- **For a research project**
 - 3 month prior arrival
- **For an academic semester**
 - 15th of May (for a semester starting in September/October)
 - 15th of October (for a semester starting in February)



3 steps to apply

STEP

1

2

Selection

- **If your institute is a partner**

- All fees are waived
- You complete your enrolment
- We deliver required documentation for visa, accommodation, insurance, laboratories (if required).
- Does [my institute have an agreement](#) with Bordeaux Institute of Technology ?

- **If your institute is not a partner**

- Tuition fees apply
 - Details are provided on line
- Once paid, we complete your enrolment.

Bordeaux INP
ENSEIRB
MATMECA



3 steps to apply

STEP

1

2

3

Arrival

- **Prepare your arrival**

- We keep in touch with you till your visa and accommodation are granted,
- We wait for your arrival details to pick you up,
- We help you during your first days at Bordeaux (bank, cell phone, ...).

- **Welcome at Bordeaux Institute of Technology**

- We are very pleased to welcome you,
- Enjoy your stay at Bordeaux, take the best part of it !

Bordeaux INP
ENSEIRB
MATMECA



We welcome international students



Choose BORDEAUX !



Bordeaux INP

**ENSEIRB
MATMECA**

<http://international.eirb.fr>

welcome@enseirb-matmeca.fr