



**Bordeaux INP**

**ENSEIRB  
MATMECA**

**Dr. Francois RIVET**

***Director of International Office***



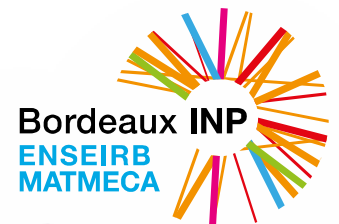
# Welcome

## at Bordeaux Institute of Technology ENSEIRB-MATMECA

- 5 reasons to come
- Our exchange program
- Study with us
- How to apply ?



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D'UNIVERSITÉS  
ET ÉTABLISSEMENTS  
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# France



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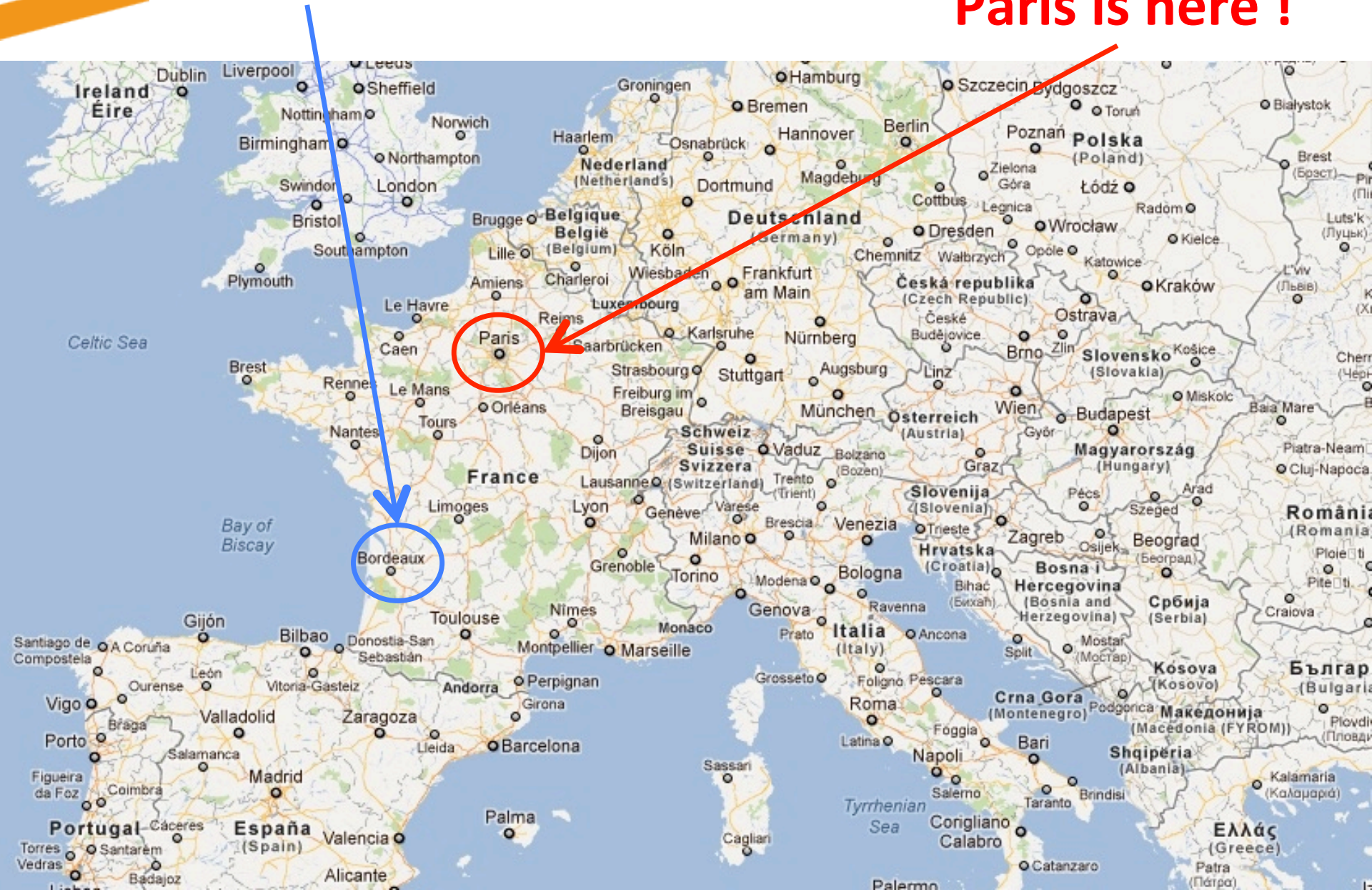
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# Bordeaux in France

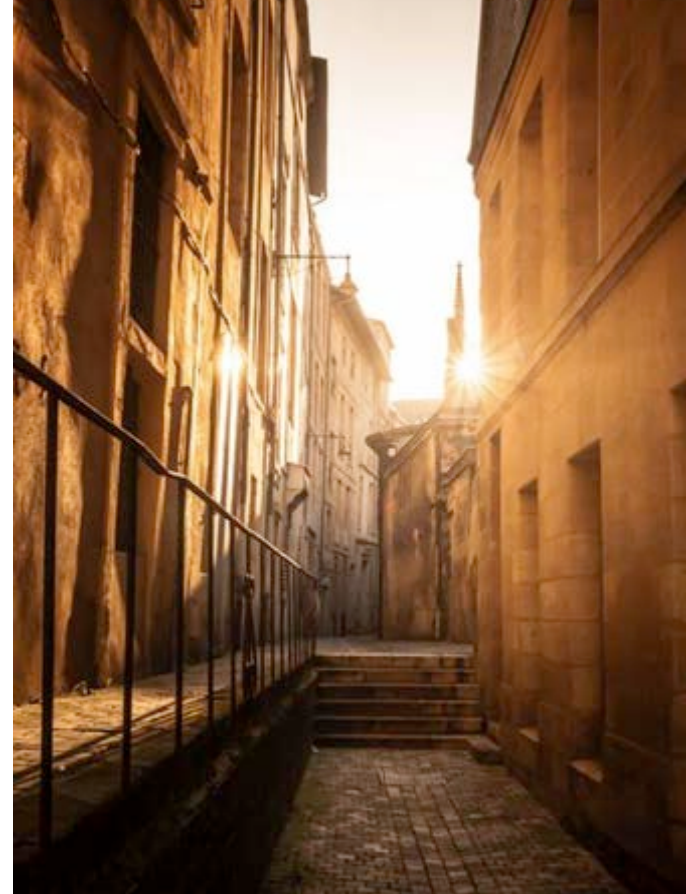
Paris is here !





# 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 !!!



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# 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)





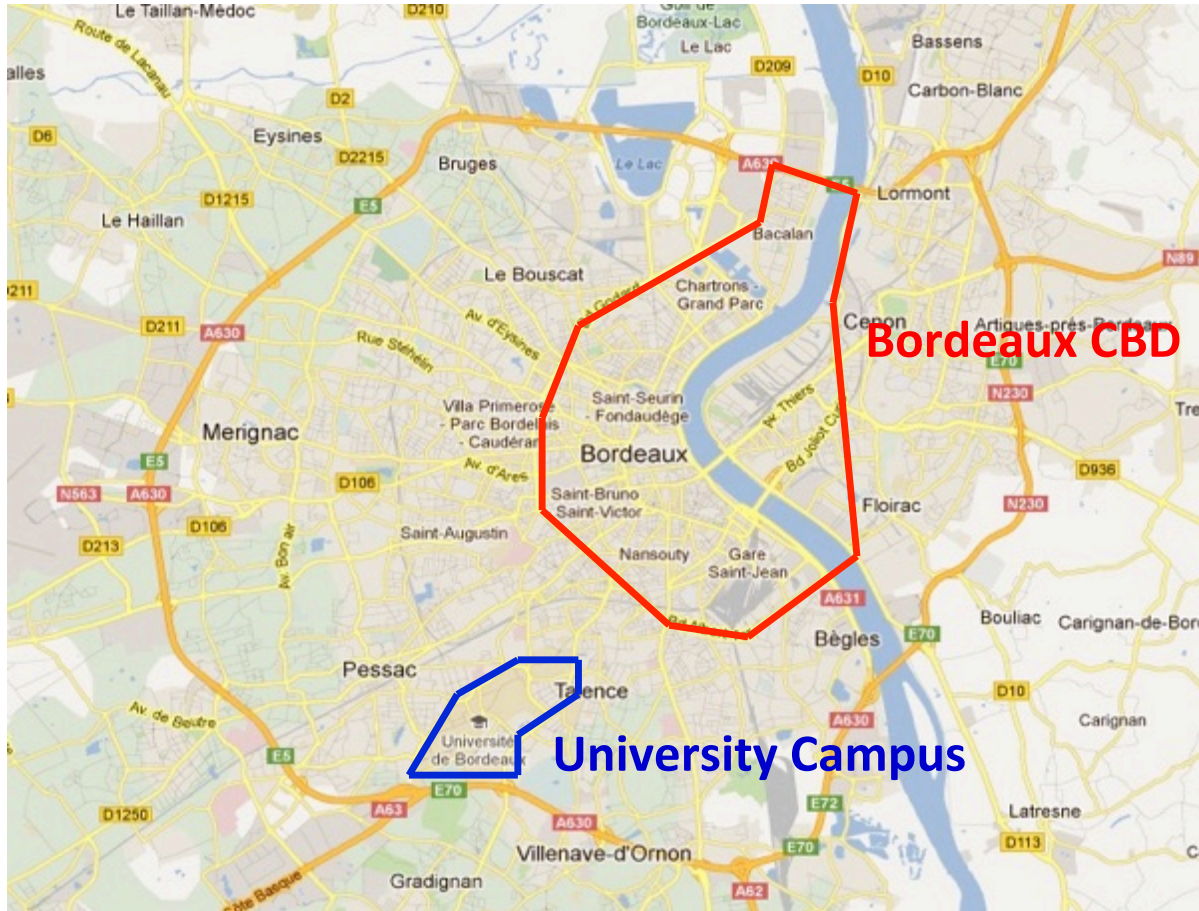
# Bordeaux, most attractive city in the world in 2017

*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





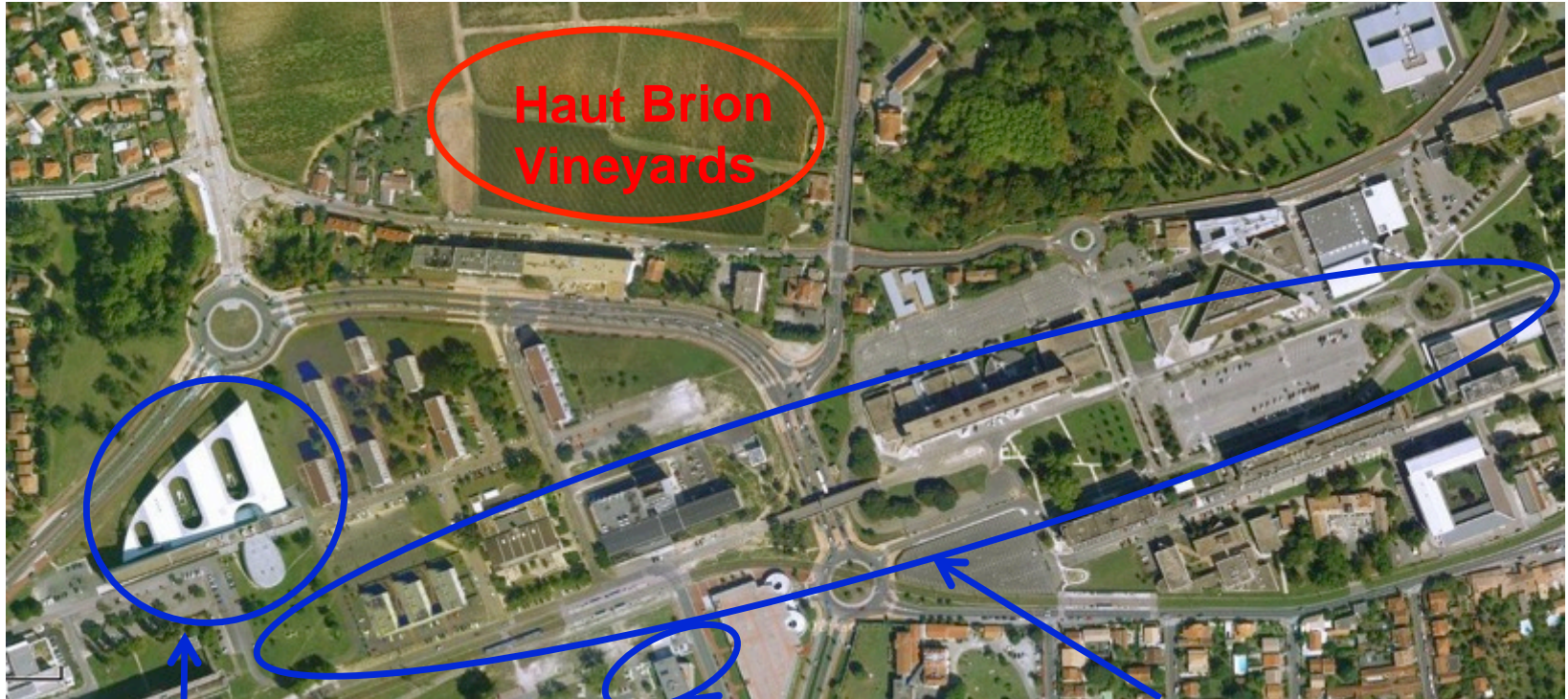


# The Science and Technology Campus





# The Science and Technology Campus



Haut Brion  
Vineyards

Bordeaux  
Institute of  
Technology



French  
Research  
Agency

université  
de BORDEAUX



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# Bordeaux Institute of Technology

- 8 Graduate Schools of Engineering



**ENSEIRB-MATMECA** (founded in 1920)

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



**ENSCBP** (founded in 1892)

Graduate School of Chemistry, Biology and Physics



**ENSEGID** (founded in 1989)

Graduate School of Environment, Geo-resources and engineering for sustainable Development



**ENSTBB** (founded in 1994)

Graduate School of Biotechnologies



**ENSC** (founded in 2003)

Graduate School of Cognitics



**ENSGTI\*** (founded in 1991)

Graduate School of Industrial Technologies Engineering



**ISABTP\*** (founded in 1996)

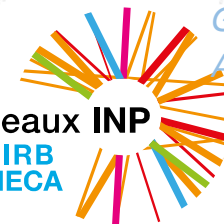
Graduate School of Construction Industry and Civil Engineering



**BSA\*** (founded in 1963)

Graduate School of Agronomic sciences

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# Bordeaux Institute of Technology

## *Some key figures ...*

- **Public institution (tuition fees : 600€/year)**
  - Access by high level entrance exam (high selection)
  - 280 faculty members
  - 8 graduate schools
  - 19 departments incl. 6 by apprenticeship
  - 12 joint research centers
- **3.200 students (4 campuses)**
  - 920 students graduated each year
  - 60 students associations
  - 9 to 14 months of work placement
  - 4 Masters of Science
  - 6 doctoral schools
  - 311 Ph.D students
- **More than 130 international partners**
  - Avg. 12% international students



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# 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



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# 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



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# 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

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# 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		

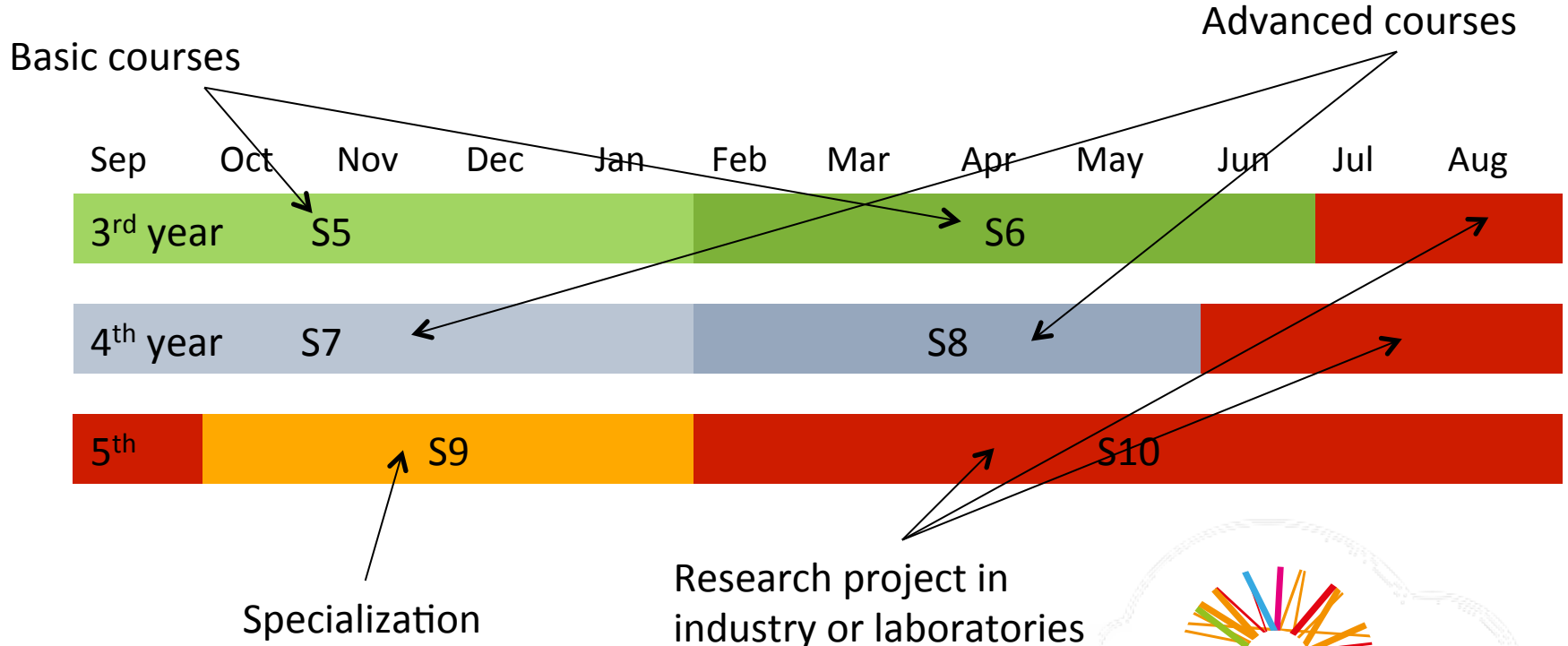
- **Graduate Engineering studies**
  - 3<sup>rd</sup> year of Bachelor
  - 1<sup>st</sup> and 2<sup>nd</sup> year of Master
  - Master by research or by course



# ENSEIRB-MATMECA

- **Training program overview**

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



# ENSEIRB-MATMECA

- **Technical content**

- Broad coverage of basic concepts for each program

99 ECTS, 1100-1200 hours

- Specialized options linked to research and market opportunities

25 ECTS, 280-300 hours

- **Non-technical content**

- English + a second foreign language (choice among 7 languages including chinese, japanese)

- Management courses

26 ECTS, 500 hours





# Welcome

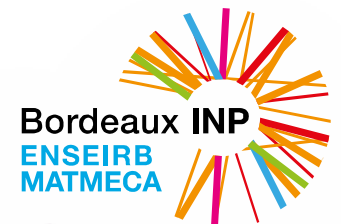
## at Bordeaux Institute of Technology

### ENSEIRB-MATMECA

- **5 reasons to come**
- Our exchange program
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# 5 reasons to come at Bordeaux

1

Get a valuable scientific experience

Same credits, different way of getting it

2

3

Bordeaux, a liveable city

A gateway for industry placement in Europe and in France

4

5

Go out of your confort zone

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**Go out your confort zone at Bordeaux**



**LIFE BEGINS**  
AT THE  
**END OF YOUR**  
**COMFORT ZONE**

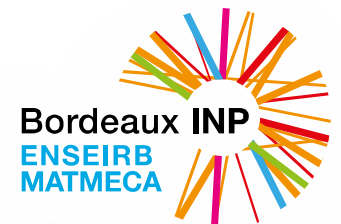
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# Our exchange program

*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

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# 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

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# Our exchange program

*A brief overview*

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

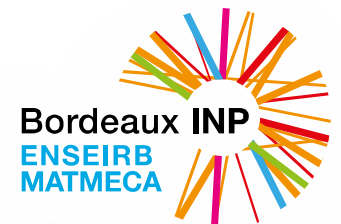
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**Study with us**

-

**Summer  
School**

**3rd of July**

-

**13th of July**



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AQUITAINE

**BORDEAUX INP**  
**SUMMER SCHOOL**

**July 3rd to 13th, 2017**

**Sustainability**  
in Bordeaux City  
& Nouvelle-Aquitaine

**Tuition fees 600€**  
including  
French language courses,  
conferences, visits organised  
by Bordeaux INP, lunch (except  
on week-ends) & transportation  
within Bordeaux.

Contact : [dri@bordeaux-inp.fr](mailto:dri@bordeaux-inp.fr)  
Applications should be submitted online before May 30th, 2017  
via the application form : <http://bit.ly/SummerSchool17>

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**WWW.BORDEAUX-INP.FR**







# Study with us - Your Academic Semester

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# 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](http://www.enseirb-matmeca.fr) or [international.eirb.fr](http://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 15<sup>th</sup> 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-bordeaux.fr](http://www.enseirb-matmeca-bordeaux.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

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# Study with us - Your Research Project

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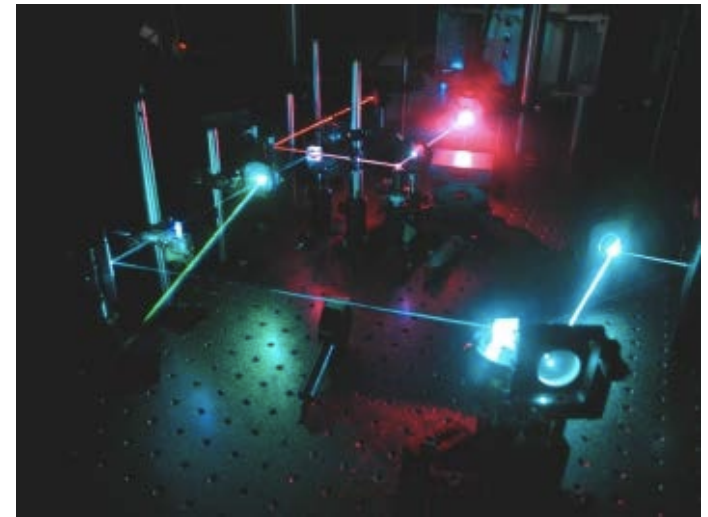
# Study with us – Your Research Project

- **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](http://www.ims-bordeaux.fr)

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

**LaBRI** [www.labri.fr](http://www.labri.fr)

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

**IMB** [www.math.u-bordeaux.fr/imb](http://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** [i2m.u-bordeaux.fr](http://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  
[welcome@enseirb-matmeca.fr](mailto:welcome@enseirb-matmeca.fr)

APPLY ONLINE AT  
[international.eirb.fr](http://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

5\* internships

230 faculty members

10 joint research centers

130 partnerships worldwide

14th INNOVATION

10th TECHNOLOGIES

10th INNOVATION

## ENSEIRB-MATMECA- Bordeaux INP

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



### BEFORE YOUR ARRIVAL

APPLICATION  
Online application : [international.eirb.fr](http://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](http://www.bordeaux-alumni.com)

USEFUL INFORMATION  
➤ CROUS [www.crous-bordeaux.fr](http://www.crous-bordeaux.fr)  
➤ Bordeaux [www.bordeaux.fr](http://www.bordeaux.fr)  
➤ Transport [www.infotbm.com](http://www.infotbm.com)  
➤ Visa [bit.ly/CareSjour](http://bit.ly/CareSjour)



### CONTACT

International Office  
+33 (0)5 56 84 23 65  
[welcome@enseirb-matmeca.fr](mailto:welcome@enseirb-matmeca.fr)  
INTERNATIONALEIRB.FR



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**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](http://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](http://www.labri.fr)







# IMB: Bordeaux Mathematics Institute



## Engineering area

Electrical Engineering

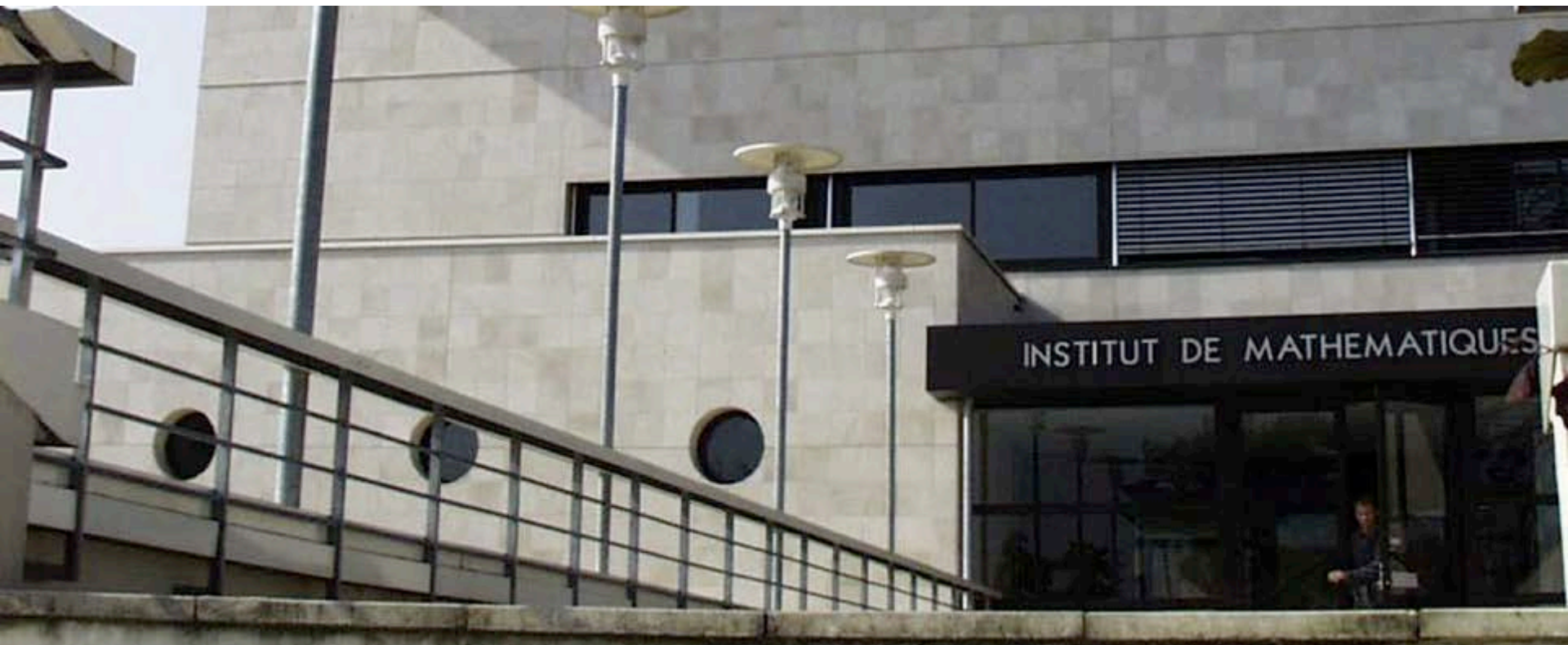
Computer Science

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](http://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](http://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](http://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](http://www.enseirb-matmeca.fr) or [international.eirb.fr](http://international.eirb.fr)
- Provide all required documentation in due time
  - Administration takes time (visa, accomodation ...)

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# 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 ...
<b>TOTAL</b>	<b>700\$ per month or more</b>

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



# Welcome

## at Bordeaux Institute of Technology ENSEIRB-MATMECA

- 5 reasons to come
- Our exchange program
- Study with us
- **How to apply ?**



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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**
    - 15<sup>th</sup> of May (for a semester starting in September/October)
    - 15<sup>th</sup> 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.

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# 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](mailto:welcome@enseirb-matmeca.fr)

