



MASTER OF SCIENCE

Software Engineering

4 months of course training and 5 months of internship to get an advanced training in computer science engineering to design, understand, develop and maintain complex software systems. Training is composed of lectures, seminar, projects and practical demonstration. Internship could be performed either in a research or an industrial environment. You have access to the institute professional network to get your internship.



COURSES

The Software Engineering Master of Science is offered by the Department of Computer Science. It provides advanced training in computer science engineering to design, understand, develop and maintain complex software systems. This degree includes courses in fundamental computer science as well as practical courses and projects. The program leads to a large scope of careers and jobs in computer science companies, IT departments, banks, IT consulting companies among other sectors. Graduate students are prepared for jobs such as IT project manager, Software development engineer, Data manager, Software architect, or R&D engineer. It provides courses in electronics on various aspect of Software Engineering: algorithms, Programming, Java, Databases, SQL, Basics of modeling computer software applications.

- SOFTWARE METHODOLOGIES: Software project management and Information systems, Software testing
- DESIGN AND VALIDATION OF SOFTWARE SYSTEMS: Software design – B method, Object oriented modelling
- DATA ENGINEERING: Persistency and databases, Management and Analysis of Big Data
- DISTRIBUTED AND MOBILE SOFTWARE: Multi-tiers software architectures, Concurrent and distributed software systems, Mobile application development
- SOFTWARE METHODS AND TOOLS, FORMAL DESIGN OF SOFTWARE SYSTEMS, ADVANCED PROGRAMMING TECHNIQUES
- ENGLISH OR FRENCH based on student choice

Professors are from Bordeaux INP and IMS laboratory. Invited speakers are international experts coming from:

- ACADEMIA: University of Lorraine, University of Padua, IIT Bombay, University of Cincinnati, University of Pretoria, ...
- INDUSTRY:



CALENDAR

October to January

4 months courses

February to July

5 months internship



PRE-REQUISITES

Skills in Programming, java, Object-Oriented Programming, Databases, Algorithms.

APPLICATION

Deadline: Open till September 15
Price: 7 300€
No fees for partners

CONTACT

welcome@enseirb-matmeca.fr

APPLY ONLINE AT
www.bordeaux-inp.fr

BORDEAUX INP

and its partner schools

Give engineering
a french touch

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of Engineering
in France

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competitive exam)

+900¹ students
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including 5 by
apprenticeship

230
faculty
members

11 joint
research centers

140 partnerships
worldwide

*groupe Bordeaux INP
Nouvelle-Aquitaine

ENSEIRB-MATMECA - Bordeaux INP

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



BEFORE YOUR ARRIVAL

APPLICATION

Online application form :
www.bordeaux-inp.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.*

**Courses in French
as a foreign language
available throughout
the year !**



CLUBEE

Clubee welcomes international
students and helps them with
administrative procedures.

 CluBee
Enseirb-Matmecca



CONTACT

International Office

+33 (0)5 56 84 23 65
welcome@enseirb-matmecca.fr

BORDEAUX-INP.FR/EN

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 to 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/CarteSéjour