



**INSA**

INSTITUT NATIONAL  
DES SCIENCES  
APPLIQUÉES  
RENNES

## **INSA RENNES**

A "GRANDE ÉCOLE"  
CLASSÉ AMONG  
THE BEST STATE GRADUATE  
AND POST GRADUATE  
ENGINEERING SCHOOLS  
IN FRANCE

[www.insa-rennes.fr](http://www.insa-rennes.fr)

# COME TO INSA RENNES

Created in 1966, INSA Rennes is a member of the INSA Group, the leading French network of state graduate and post graduate engineering schools, composed of 6 INSA in France, 7 INSA partner schools and 1 international INSA in Morocco.

## 2 POLES OF EXCELLENCE

Research and innovation are the key elements of INSA training, which benefits from the expertise of its 130 professors and lecturers. With six laboratories of international renown, three technological platforms and numerous industrial partners, INSA Rennes stands out for two poles of excellence:

- ▷ Information & Communication Sciences & Technologies
- ▷ Materials, Structures & Mechanics

## HIGH LEVEL SCIENTIFIC TRAINING

With almost 1800 students, INSA Rennes is a prestigious “Grande École\*”, a graduate and post graduate school of sensible proportions. INSA Rennes delivers high level scientific training conforming to the highest official European standards:

- ▷ 7 Masters in Engineering
- ▷ 7 Masters by Research
- ▷ 2 PhD programs

\* Terms in French

## SELECTIVE ENTRY & AFFORDABLE STUDIES

Recognized for the excellence of their scientific training, French state “Grandes Écoles d’ingénieurs\*\*” have very selective recruitment, based on the academic performance of the students. Only the best students are accepted by INSA Rennes (1 in 7 candidates is admitted into the first year), on the basis of their dossier and interview. Subsidized by the state, INSA engineer training is accessible to students from all social backgrounds (cf. practical information).

## TRAINING COMPLEMENTED BY PROFESSIONAL EXPERIENCE

Engineer training, being both scientific and technical, favors teamwork and a high employment rate through practical sessions, industrial projects and internships in companies, in France and abroad (11 months possible over the 5 years of study). INSA Rennes engineers have great employment potential, finding their first job within 1.2 months on average (2014 graduates). 50% of the students are even recruited before graduating.



## A WIDE RANGE OF CAREERS & OPPORTUNITIES

INSA engineers can work in companies or large industrial groups, in study offices, consultancies, R&D laboratories, in the fields of engineering sciences: Technologies of Information and Telecommunication, Construction and Public Works, Energy and the Environment, Transport, Electronics, Informatics, Materials, Mechanics and Mechatronics, Banking, Finance, Insurance, etc.

## RENNES, AN ATTRACTIVE CITY FOR STUDENTS

The 10th largest city in France and 4th in terms of its student population, Rennes and its suburbs number 400 000 inhabitants, one quarter of which are students. The capital city of Brittany is 45 minutes from the coast [Saint Malo, Mont Saint-Michel] and 2 hours from Paris.

## AN ENVIRONMENT CONDUCIVE TO PERSONAL DEVELOPMENT

Accommodation, catering, a health club, pedagogical, cultural and sporting equipment... students have everything on the INSA campus to encourage success in their studies and personal development.



*Le Mont Saint-Michel*



*Rennes, Place de la République*

# STUDY & OBTAIN AN INSA DIPLOMA

International students can prepare an INSA engineering diploma by joining the International stream after high school, one of the Masters in Engineering or by Research after a Bachelor.

## MASTER IN ENGINEERING : 5 YEARS POST-BAC\*\*

The two years of Sciences and Techniques for Engineers [STPI \*] enable a good grounding in the scientific bases and techniques, as well as essential knowledge in the Human Sciences necessary to be able to follow one of the 7 Masters in Engineering.

### The International stream - FIRE\* (Years 1-2)

Based on the same program as the regular STPI, the International stream offers personalized mentoring for international students:

- ▷ Tutoring in small groups with possible one-to-ones;
- ▷ Pairing with a French student;
- ▷ French as a Foreign Language lessons grouped according to your level;
- ▷ An internship in a French company (end of first year);
- ▷ Help with administration, looking for an internship and writing an internship report.



### LANGUAGE PREPARATION BEFORE THE INTERNATIONAL STREAM

Language and scientific training is organized for non-native French speakers before they join the international stream, during a preparatory semester or summer school.

#### The Preparatory Semester (SPIR\*) from February to June (4 months)

- ▷ French as a Foreign Language lessons, grouped according to level [200h]
- ▷ English lessons
- ▷ Science and practical work in French [200h]
- ▷ French culture lessons
- ▷ Host family accommodation for the first week then in INSA Halls of Residence
- ▷ "Culture and Heritage of Rennes and its Area" outings

#### The Summer School in August (4 weeks)

- ▷ French as a Foreign Language lessons, grouped according to level
- ▷ Host family accommodation [full board]
- ▷ Themed visits and cultural outings

## 7 Masters in Engineering (Years 3-4-5)

The 7 Masters in Engineering are accessible at any level, to prepare an INSA diploma or within the framework of an exchange for 1 or 2 study semesters:

### Information and Communication Sciences and Technologies

- ▷ Electronics and Computer Informatics [EII\*]
- ▷ Mathematical Engineering [GM\*]
- ▷ Computer Science & Software Engineering [INFO\*]
- ▷ Communications Systems & Networks [SRC \*]

### Materials, Structures and Mechanics

- ▷ Civil and Urban Engineering [GCU\*]
- ▷ Mechanical and Automation Engineering [GMA \*]
- ▷ Materials Science & Engineering [SGM \*]

### INTERNATIONAL DOUBLE DIPLOMAS

INSA Rennes has signed double diploma agreements with partner universities (list available on the internet site). By carrying out a period of study at INSA Rennes, international students from partner universities can obtain an INSA Engineering Master or Research Master, in addition to a diploma from their original establishment.

## MASTER BY RESEARCH (Year 5)

### 7 Masters in "Sciences and Technologies"

INSA Rennes proposes 7 Masters by Research, accessible after following a first year in a Master [M1\*]. The courses are comprised of theoretical training, followed by a 4 month minimum research internship, in an academic or industrial sector.

- ▷ **Chemistry:** Chemistry of Solids and Materials M2 CSM\*
- ▷ **Modeling:** Scientific Computing and Applications M2 CSA\*
- ▷ **Electronics:** Micro-Technologies, Architecture, Networks & Communication Systems
- ▷ **Mechanics and Sciences for Engineers:** Mechanics and Civil Engineering M2 MGC\*
- ▷ **Computer Science**
- ▷ **Physics:** Optoelectronics M2 PHOT-IN\*
- ▷ **Mathematics and Applications:** Mathematical Statistics

## PHD (YEARS 6-7-8)

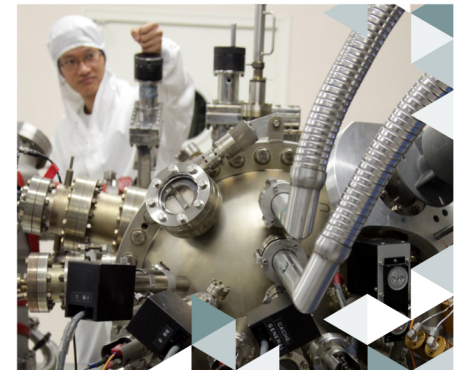
### 2 PhD programs

INSA Rennes propose 2 doctoral schools:

- ▷ Mathematics, Telecommunications, Informatics, Signals, Systems and Electronics [MATISSE\*]
- ▷ Materials Sciences [SDLM\*]

\* Terms in French [M2 meaning 2nd year, Masters]

\*\* The Baccalauréat [Bac] is equivalent to 'A' Levels/High School Diploma



# TRAINING OPEN TO INTERNATIONAL STUDENTS

Master in Engineering/ Master by Research

PhD

Bac\*\*  
+0

Bac\*\*  
+5

Bac\*\*  
+8

## Baccalauréat\* in Sciences

Sélection based on academic level

1

### General Training

STPI\* - Sciences & Technics for Engineers

2

### Normal Section

International Section

### Linguistic training before International section

- ▶ Preparatory semester (SPIR\*) from Feb to June
- ▶ Summer school in August

3

### 7 Masters in Engineering

#### Information and Communication Sciences and Technologies

- ▶ [EII\*] Electronics and Computer Engineering
- ▶ [GM\*] Mathematical Engineering
- ▶ [INFO\*] Computer Science & Software Engineering
- ▶ [SRC\*] Communication Systems and Networks

#### Materials, Structures and Mechanics

- ▶ [GCU\*] Civil and Urban Engineering
- ▶ [GMA\*] Mechanical and Automation Engineering
- ▶ [SGM\*] Materials Science and Engineering

4

### 7 Masters by Research

- ▶ Chemistry
- ▶ Electronics
- ▶ Informatics
- ▶ Scientific Computing and Applications
- ▶ Mechanics and Civil Engineering
- ▶ Optoelectronics
- ▶ Theoretical Statistics

5

6

### 2 doctoral programs

- ▶ **MATISSE\***: Mathematics, Telecommunications, Informatics, Signals, Systems and Electronics
- ▶ **SDLM\***: Materials Sciences

#### In 6 research laboratories

- ▶ FOTON-INSA\*: Optical Functions for Information Technologies
- ▶ IETR-INSA\*: Institute of Electronics & Telecommunications of Rennes
- ▶ IRISA-INSA\*: Institute for Research in IT & Random Systems
- ▶ IRMAR-INSA\*: Mathematics Research Institute of Rennes
- ▶ ISCR-INSA\*: Institute of Chemical Sciences of Rennes
  - ▶ ISCR/CM-INSA\*: Metallurgical Chemistry Team
  - ▶ ISCR/CSM-INSA\*: The Solids and Materials Chemistry Team
- ▶ LGCGM\*: Laboratory of Civil & Mechanical Engineering

7

8

### SPECIFIC PROGRAMS FOR INTERNATIONAL STUDENTS

Lessons given in English  
Upon the request of students, certain lessons in Masters in Engineering and Masters by Research can be given in English.

French as a Foreign Language lessons  
For levels A2 to C1, these lessons can cover French language, culture and scientific French.

4

### OPTIONAL INTERNATIONAL SECTION

3 semesters programs in English

Optoelectronics

Data & Programming

Media & Networks

International Double Diplomas

5

\*terms in French

\*\* the Baccalauréat [Bac] is equivalent to 'A' Levels/High School Diploma

> [www.insa-rennes.fr/international-students-programs](http://www.insa-rennes.fr/international-students-programs)

# COME & STUDY ABROAD TO INSA RENNES

Thanks to its numerous university partners throughout the world, INSA Rennes encourages international student mobility.

## ACTIVE PARTNERSHIPS IN 50 COUNTRIES

With more than 150 agreements in 50 countries, INSA Rennes offers numerous exchange possibilities. In addition to bilateral agreements and international partnerships in the INSA Group, the school participate in three specific exchange programs: FITEC (Argentina, Brazil, Mexico), BCI (Québec) and ERAS-MUS + (Europe). International students can follow one or two study semesters or an international double diploma at INSA Rennes.

## THREE STUDY SEMESTERS IN ENGLISH

INSA Rennes proposes three international study options in a Master in Engineering lasting one semester, with lessons given in English:

- ▷ Data & Programming (year 4)
- ▷ Media & Networks (year 5)
- ▷ Optoelectronics (year 5)

A minimum level in French of A2 is recommended for foreign students to facilitate integration.

*\* Terms in French*



## LANGUAGE TRAINING

### *Lessons given in English*

Upon the request of the students, certain Masters in Engineering and Masters by Research lessons can be given in English.

### *French as a Foreign Language lessons*

Proposed to all non-native speakers of French, these lessons go from level A2 to C1. They cover French language, culture and scientific French.

# OPT FOR RESEARCH

With its 6 laboratories associated with the CNRS (the French Ministry of Research organization,) INSA Rennes guarantees excellent training and research, recognized by the international scientific community.

## SIX LABORATORIES OF INTERNATIONAL RENOWN

- ▷ **FOTON-INSA\***: Optical Functions for Information Technologies
- ▷ **IETR-INSA\***: Institute of Electronics and Telecommunications of Rennes
- ▷ **IRISA-INSA\***: Institute for Research in IT and Random Systems
- ▷ **IRMAR-INSA\***: Mathematics Research Institute of Rennes
- ▷ **ISCR-INSA\***: Institute of Chemical Sciences of Rennes
  - ▷ **ISCR/CM-INSA\***: Metallurgical Chemistry Team
  - ▷ **ISCR/CSM-INSA\***: Solids and Materials Chemistry Team
- ▷ **LGCGM-INSA\***: Laboratory of Civil and Mechanical Engineering

## INTERNSHIP IN A RESEARCH LABORATORY

The 6 research laboratories of INSA Rennes receive student interns who wish to carry out research projects based on the following main themes:

- ▷ Mechanics and Robotics for Industry
- ▷ Civil Engineering and Sustainable Structures, Eco-Design
- ▷ Electronics and Connectivity
- ▷ Computer Science, Software Engineering, Cybersecurity, Data Analytics & Big Data
- ▷ Applied Mathematics, Statistics & Optimization
- ▷ New Materials and Functional Molecules
- ▷ Optoelectronics and Photovoltaics



## CONTINUING STUDIES IN RESEARCH & DEVELOPMENT

### **7 Masters by Research**

This is for students who wish to continue their studies with a thesis in a doctoral school. The training includes theory followed by a research internship in an academic or industrial sector [4 months minimum].

### **2 doctoral programs**

The laboratories at INSA Rennes accompany PhD students throughout their training.

# LIFE ON THE INSA CAMPUS

Situated 10 minutes from the city center and easily accessible by public transport, the INSA campus is a quality environment with pedagogical, cultural and sports equipment, and the possibility of accommodation and catering on site.

## UNIVERSITY HALLS OF RESIDENCES

820 individual rooms and 171 studios, all furnished and with WIFI connection.

## UNIVERSITY RESTAURANT

Open from Sunday evening to Friday evening for boarders. Closed during the school holidays and bank holidays.

## MULTIMEDIA CENTRE

Open every day from 7.00 to midnight, it has about 100 free-access work stations (Internet) and a video-conference room.



## DYNAMIC STUDENT LIFE

With about thirty clubs and student associations, INSA Rennes supports innovative initiatives and projects such as cultural, economic and sporting events. The school also encourages high level sports students, and those who are passionate about the theatre and music, allowing them to opt for in the Sports Excellence [Excellence Sportive\*] or Arts-Studies [Arts-Études\*] sections.



## MULTI MEDIA LIBRARY

Open from Monday to Thursday 8.00 to 21.00 and Friday from 8.00 to 19.00.

## SPORTS HALL

Basketball, handball, table tennis, climbing... numerous activities and sports meetings are organized.

## LANGUAGE LABORATORY

Equipped with computers, it can receive groups of up to 26 students accompanied by their teacher.

## THE "SANTÉ, PRÉVENTION, HANDICAP\*" HEALTH CENTRE

The INSA Rennes nurse and psychologist receive and accompany students through appointments or for first aid.

# PRACTICAL INFORMATION

## COST OF STUDIES

The courses given in state graduate and post graduate engineering schools are financed by the French State.

## General school fees for the 2015-2016\* school year including social security

- ▷ Master in Engineering: 830€
- ▷ Master by Research: 476€
- ▷ PhD: 611€

*\* given as a general indication - the fees can change annually*

## Fees specific to foreign students in the international stream

- ▷ Total fees for 2 school years: 3 500 €
- ▷ Fees for preparatory semester SPIR\* (Feb- June): 1 500 €
- ▷ Fees for the summer school (August , inc. stay in host family): 1 500 €

## ACCOMMODATION & CATERING

International students benefit from on campus accommodation and catering (full board, except weekends and school holidays). One year of study at INSA Rennes costs approximately €6000, accommodation and meals included (as a boarder). This tariff varies according to the accommodation chosen. Bed linen can be provided on request for international students housed in an INSA Hall of Residence (furnished room or studio).



## HELP WITH ACCOMMODATION

Foreign students can benefit from help with their accommodation and from different grants. Students who hold a valid French residency permit [Carte de Séjour\*] can obtain French state accommodation aid. ALS \*[room] request files or APL \*[studio] request files are available on [www.caf.fr](http://www.caf.fr) and should be filled out immediately on reception of the acknowledgement of request for the Carte de Séjour\* delivered by the Préfecture\*.

## SOCIAL INSURANCE AND COVER

All students have the right to state health insurance [Sécurité Sociale\*] in France. To benefit, foreign students should provide their birth certificate as well as a European health card or French Social Security registration form [Formulaire d'Immatriculation de la Sécurité Sociale\*] provided on the first day of the new school year. This service is covered in the school fees. To complement state health coverage, students must subscribe, via the Student's Insurance Mutual [Mutuelle Etudiante\*], to the Accident and Liability Cover [Accident et Responsabilité Civile\*] and Housing Cover [Logement\*] insurances.

*\* Terms in French*



## USEFUL LINKS

**Information on international matters at INSA Rennes**  
> [insa-rennes.fr/en](http://insa-rennes.fr/en)

**Information on board and lodging**  
> [insa-rennes.fr/en/insa-rennes-campus](http://insa-rennes.fr/en/insa-rennes-campus)

**The Rennes International Mobility Center**  
> [mobilite-rennes.ueb.eu](http://mobilite-rennes.ueb.eu)



## CONTACT US

**EUROPE & INTERNATIONAL Enquiries**  
[international@insa-rennes.fr](mailto:international@insa-rennes.fr)

[www.insa-rennes.fr](http://www.insa-rennes.fr)

**INSA**

**Cti**  
Commission  
des Titres d'Ingénieur

