

BRETAGNE 

RESEARCH

DIGITAL DEVELOPMENT

LIFELONG LEARNING

NETWORKING

A REGIONAL NETWORK WITH
AN INTERNATIONAL OUTLOOK



UNIVERSITÉ
EUROPÉENNE
DE BRETAGNE

The "Université européenne de Bretagne" (UEB)

Set up in 2007, the European University of Bretagne brings together 28 higher education and research institutions from across Bretagne. These include universities, grandes écoles and research institutions. The UEB reflects both a long-standing tradition of collaboration among regional higher education institutions and the will to achieve greater synergy for the future. The UEB offers a wide range of skills and services including: PhD courses, research, technology transfer and innovation, monitoring student career paths, digital development, life-long learning...

28 Member Institutions of the UEB:

9 Founding Members:

- Université de Bretagne Occidentale (UBO) > univ-brest.fr
- University of South Brittany (UBS) > univ-ubs.fr
- Université de Rennes 1 > univ-rennes1.fr/english
- Rennes 2 University > univ-rennes2.fr/en
- AGROCAMPUS OUEST > agrocampus-ouest.fr/en
- ENS Cachan - Bretagne > bretagne.ens-cachan.fr
- Rennes School of Chemistry (ENSCR) > ensc-rennes.fr/english
- INSA-Rennes > insa-rennes.fr/en
- Telecom Bretagne > telecom-bretagne.eu

19 Associate Members: "Grandes écoles" partners:

- ECAM Rennes > ecam-rennes.fr
- The saint-Cyr Coëtquidian Military academy > st-cyr.terre.defense.gouv.fr
- French Naval Academy > ecole-navale.fr
- EESAB > eesab.fr/en
- EHESP > ehesp.fr
- EME > ecole-eme.com
- ENIB > enib.fr
- ENSAI > ensai.fr
- ENSTA Bretagne > ensta-bretagne.eu
- ESC Rennes School of Business > esc-rennes.fr
- Sciences Po Rennes > sciencespo-rennes.fr
- Supélec > supelec.fr

Research Institutions:

- ANSES > anses.fr
- Inria Rennes - Bretagne Atlantique > inria.fr/rennes
- Irstea > irstea.fr
- UPMC / Station Biologique de Roscoff > sb-roscoff.fr

Hospitals Research Centers:

- Centre Eugène Marquis - Rennes > centre-eugene-marquis.fr
- Brest University Hospital Research Center > chu-brest.fr
- Rennes University Hospital Research Center > chu-rennes.fr

UEB, a regional network of higher education establishments with an international goal

8 Doctoral School

- Arts, Literature, and Languages (ALL) > espace-recherche@univ-rennes2.fr
- Mathematics, Telecommunications, Computer Science, Signal, Systems, and Electronics (MATISSE) > matisse.ueb.eu
- Health, Information, Communications, Mathematics and Materials (SICMA) > edsicma.univ-brest.fr
- Sciences of Man, Organisations, and Society (SHOS) > shos.univ-rennes1.fr
- Materials Science (SDLM) > sdlm.ueb.eu
- Marine Sciences (EDSM) > edsm.univ-brest.fr
- Humanities and Social Sciences (SHS) > espace-recherche@univ-rennes2.fr
- Life-Agro-Health (VAS) > vas.univ-rennes1.fr

Key figures:

- 76,000 students
- 4,200 researchers
- 3,000 PhD students
- 126 research units

Portrait of Bretagne/Brittany

Bretagne is:

- No. 1 in the food industry in France
- No. 1 in naval shipbuilding in France
- The 5th biggest industrial region in France
- The 2nd biggest telecommunications centre and the 5th biggest region in electronics in France

Bretagne is also:

- 4 approved innovative clusters
- 7 parks specializing in sciences and technologies
- 1 European Centre of Enterprises and Innovation
- 9 Technological Innovation centres
- Numerous partnership networks

A forward-looking region

In economic terms, Bretagne is a highly dynamic region. Backed by a long-standing agricultural and industrial tradition, natural topography, it is home to research centres and innovation clusters which allow it to develop large-scale, ground-breaking projects. Food industry, naval industry, information technologies and communication - Telecom - Electronic, newenergy sources, biotechnologies: right across these lucrative sectors, Bretagne's performance is top-notch.

A well-favoured socio-economic environment

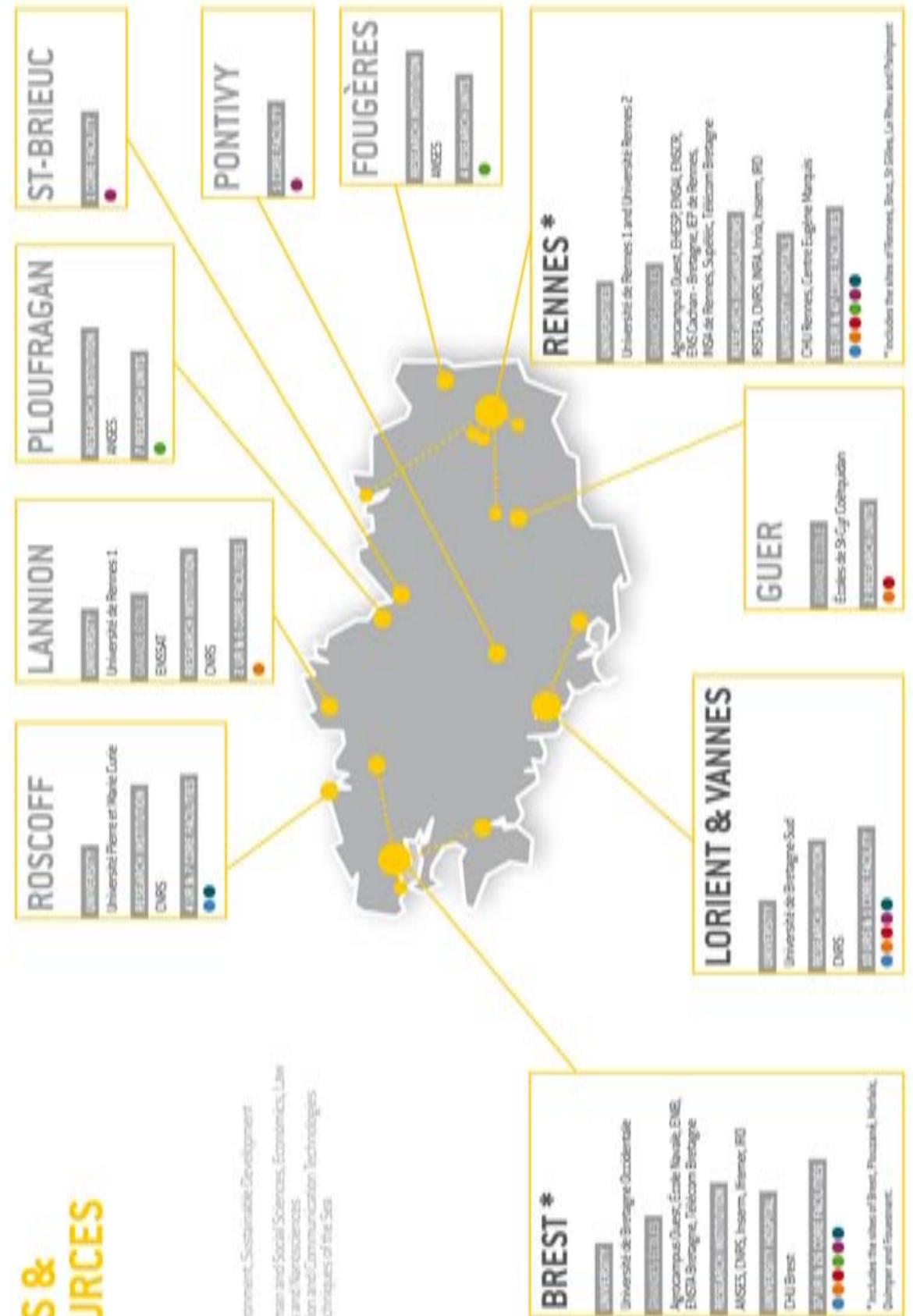
Bretagne offers a unique physical and cultural environment, with its mild climate, magnificent landscapes and extremely rich heritage. It also has a lot to offer in terms of socio-economic environment, including housing and living costs among the lowest in Europe, reliable safety and social stability, high-quality health and education systems and sophisticated transportation and service networks.

Source : www.invest-in-bretagne.org

SKILLS & RESOURCES

- Agronomy, Environment, Sustainable Development
- Biology, Health
- Humanities, Human and Social Sciences, Economics, Law
- Marine, Materials and Technologies
- Maths, Information and Communication Technologies
- Sciences and Technologies of the Sea

UEB: Research Unit



Founded in early 60's, UBO is the only multi-discipline university in Bretagne. The transdisciplinary approach of our courses is a genuine benefit for our target communities, offering them the possibility to acquire vital knowledge and adapt to a professional world that is constantly changing. It is also a veritable asset for our research, because it enables us to pool the resources from different disciplines for a given research theme and thus innovate, meeting the expectations of the socio-economic environment. Building on the strengths offered by the city of Brest as a major maritime city and its close proximity to research organizations such as IFREMER, IRD, INSERM, CNRS and IPEV (Institute for polar studies), UBO has developed a research around 4 strategic areas :

- The sea (UBO is a member of cluster of excellence Labex Mer)
- Health, Agronomy and Materials (UBO is a partner of the Labex CAMI and Labex IGO)
- Maths and ICT (Labex CominLabs partner)
- Humanities and Social Sciences

> Key figures:

- More than 20,000 students welcomed each year
- 3,500 trainees welcomed each year on further education courses
- 2,400 personnel including 660 lecturer-researchers, 940 non-teaching personnel and 270 personnel of research bodies
- 6 training sites: Brest, Quimper, Morlaix, Saint Brieuc, Vannes, Rennes
- 7 institutes
- 21 component parts

> International relations:

UBO unashamedly displays its international ambitions: To date, the university has already set up more than 350 partnerships with other higher education establishments throughout the world. These partnerships with foreign universities concern not only student mobility but also important research programmes. UBO thus welcomes each year more than 1,200 foreign students and around 40 researchers and lecturer/researchers, organising in turn the departure of more than 250 students and 280 lecturer/researchers abroad.

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The "Université de Rennes 1" has been in existence since 1969, but its heritage stems back to the days of the Breton university founded in 1461. In Rennes, the University is split into three major campuses with all facilities. It also has several departments outside of Rennes, in Bretagne. The ambition of "Université de Rennes 1" is to be innovative, to be always unravelling new fields of knowledge and to make the best use of the advances in research. The excellence of research lies at the heart of the university, in sciences, technology, health, human, business and social sciences. The university is ranked by the Academic Ranking of World Universities (ARWU) since 2004.

> Key figures:

- 23,400 undergraduate, graduate and PhD students
- 3,000 continuing education students
- 11,700 qualifications delivered every year
- 1,800 teaching and research staff
- 35 research units
- 3 campuses in Rennes and 5 sites throughout Bretagne
- 19 faculties and sub-units (10 Teaching and Research Faculties, 6 Institutes including 4 IUTs, 2 engineering schools, 1 observatory)
- 1 university foundation

> Degree programs:

- Physics, chemistry, mathematics, life and environmental sciences
- Electronics, computer science and information technology, engineering sciences and technology
- Medicine, pharmacy, dentistry
- Law and political science, economics, management, public administration, philosophy

> International relations:

Rennes 1 has signed 128 cooperation agreements or exchange protocols with universities in 44 different countries. All the university's degree programs are internationally oriented, and it delivers several international qualifications, including 2 Erasmus Mundus Master's Degrees and courses taught exclusively in English. The university hosts some 3,400 international students every year.

International contacts

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University of South Brittany (Université de Bretagne-Sud) was founded in 1995. It is a multidisciplinary institution with two main campuses situated in Lorient and Vannes, Brittany, France. It offers academic programmes from bachelor's level to the doctorate in different areas: arts, social sciences, engineering, computer science, biochemistry, mathematics, law, economics and business. It has developed recognized research skills in 4 major fields: materials, costal and marine studies, social usages and practices, IT.

University of South Brittany places special emphasis on: student life and welfare, innovation (e.g. new master's programme in cyberdefence; co-op programmes at all levels; new technological platform on high-performance materials); top-edge research; industry partnerships and technology transfer; and international student mobility.

University of South Brittany is YOUR University.

> Key figures:

- 8,500 students
- 6 faculties
- 37 student associations
- 900 staff
- 12 research laboratories
- In top ten French universities for employability after graduation
- 100 academic programmes from bachelor's level to the doctorate
- Over 100 MoUs with foreign institutions worldwide
- 40% of international PhD students
- 3 technological platforms

> International relations:

With over 100 MoUs, University of South Brittany is definitely an internationally-minded institution. It has developed collaborations on the five continents, e.g. with Canada, Argentina, Morocco, India, Malaysia or again China. It pilots two Erasmus Intensive programmes and one EU-Canada Programme. It offers a one-year immersion programme for prospective international students in business and another one-semester immersion programme for Spanish-speaking students of electronics. Our bottom line: quality and reliability.

International contacts

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Rennes 2 University originates from the old Arts Faculty founded in Rennes in 1810. It is the largest teaching and research center for the arts and social sciences in the north-west of France.

> Key figures:

- 21,000 undergraduate, graduate and PhD students
- 2,200 students on continuing education courses
- 80 Master's Degrees
- 550 PhD students
- 600 teaching and research staff
- 19 research units
- 3 campuses, including one in Saint-Brieuc

> Teaching and Research Faculties (UFR):

- Fine arts, literature, communication
- Languages (21 modern languages)
- Human sciences
- Social sciences
- Sports science

> International relations:

Rennes 2 University, with 21 modern languages taught at undergraduate and graduate level, is particularly proud of its international relations and has long-standing relationships with over 200 higher education institutions on all five continents. Every year, over 2,000 international students representing a hundred or so nationalities attend the university, which has a special French as a Foreign Language Department (CIREFE). In terms of outgoing students, Rennes 2 University sends some 400 students to study abroad each year.

International contacts

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Established for 180 years in the heart of Europe's leading agricultural and agri-food area, AGROCAMPUS OUEST is a Grande école, or 'elite public university-level college', for life and environmental sciences and technologies. Offering an impressive potential unrivalled elsewhere in France for training and research in areas ranging from food production to landscape architecture, AGROCAMPUS OUEST has a triple vocation:

- Training students to a high scientific level, enabling them to respond in an innovative and responsible manner to current issues in life sciences (three training cycles: Master, MSc in Engineering, PhD).
- Conducting academic and applied research based on the sustainable development of resources and territories, in close partnership with national and international research organisations.
- Transferring knowledge to the socio-economic sector, following 3 thematic areas:
 - innovative plant and animal production systems;
 - integrated management of resources and territories: sea, environment, landscape;
 - food and food production.

> **Key figures:**

- 1,900 students (Master, MSc in Engineering and PhD)
- 135 teaching and research staff
- 17 Master's Degrees
- 120 PhD students
- 14 Research units
- 2 campuses (Rennes and Angers)
 - 80 partners universities around the world
 - over 13,000 alumni

> **International relations:**

Agrocampus Ouest has developed an active international relations policy, for student mobility: every student must spend a semester studying or doing an internship abroad and, at least 250 foreign students come to AGROCAMPUS OUEST every year. The international network represents some 80 universities throughout the world.

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The Ecole Normale Supérieure de Cachan is a prestigious public institution of higher education and research founded in 1912. It is one of the major French Grandes Ecoles, which are considered to be the pinnacle of French higher education.

Established since 1994 on the modern, technological "Campus de Ker Lann" on the outskirts of Rennes, the ENS Cachan - Bretagne is highly renowned in the fields of innovation, development and education in the region. High standards and quality are the hallmarks of this institution which is rooted in a very favorable material and scientific environment. Continuously working towards progress, with its multidisciplinary departments and their associated laboratories, only the most optimal conditions are proposed to the students (under- and postgraduate) and researchers. ENS Cachan - Bretagne offers a unique syllabus and not only specializes in the training of future high-school teachers, university professors and researchers but also future R&D specialists for industry.

In January 2014 the Bretagne-based ENS Cachan will become **ENS de Rennes**, the fourth in France to pursue the longstanding, 200 year tradition of prestige and excellence in education and research.

> **Key figures:**

- 370 students
- 8 programs leading to the «agrégation» (highly competitive national exam to enter the teaching profession at secondary or higher level education as a civil servant)
- 60 teaching, research and administrative staff
- 5 faculties, 7 research laboratories

> **International relations:**

With over 130 international and academic research agreements, its very own international scholarship programme and a strong implication in specific joint international programmes, students at the ENS Cachan are permanently immersed in an international environment. Mobility is highly encouraged with 75 % of students on the Ker Lann Campus going abroad each year on placement (within research laboratories worldwide) or on study abroad.

Through our International Scholarship over 20 foreign postgraduates are admitted each year along with over 30 international joint PhDs and a large number of exchange students through our Erasmus Mundus, Erasmus Socrates, Tempus and Fulbright programmes.

International contacts

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Founded in 1919, the École nationale supérieure de chimie de Rennes (ENSCR) (Rennes School of Chemistry) train engineers in chemistry for industry and offers study programs from undergraduate to PhD level.

> **Key figures:**

- 450 engineering undergraduates
- 60 international students
- 5 research laboratories
- 44 professors, both teaching and research staff and researchers
- 45 to 50 PhD students and postdoctoral researchers

> **Study programs:**

- French scientific study in a pre-integration semester (PIS) (baccalauréat)
- Integrated preparatory cycle and international cycle for Chemists (2-year study program)
- Advanced engineering degree cycle (5-year study program)
- Research-based Master's Degree «Science and Technologies - chemistry» (1-year graduate program)
- Doctorate (3-year program)

> **Main study themes:**

- Biochemistry and organic chemistry
- Environmental engineering
- Clean technologies and renewable raw materials
- Materials

> **International relations:**

The ENSCR considers the acquisition of «international competence» as a core part of academic study programs, hence:

- Compulsory language learning (English, German and Spanish)
- Industrial internships and study periods abroad (Europe, Canada, United States)
- Dual qualifications and joint supervision PhDs (via international agreements)
- A multicultural environment in all the study programs
- Special programs for international students (PSI, Chemist cycle, European Summer School)

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Founded in 1966, INSA-Rennes (Institut National des Sciences Appliquées de Rennes) is one of France's top Graduate Schools of Engineering specialising in Information and Communication Systems & Technologies and Materials, Structures & Mechanical Engineering. Member of the INSA-Group, INSA-Rennes offers high-level scientific courses that comply with the European Bachelor / Master / Doctorate model, and has been accredited for 7 masters in engineering, 7 masters in research and 2 doctorate schools (PhD).

> **Key figures:**

- 1,700 students
- 150 PhD students
- 270 teaching and research staff
- 7,500 INSA-Rennes engineering graduates worldwide

> **Programs:**

7 masters in engineering:

Information and Communication Systems & Technologies

- Electronics and Computer Engineering
- Communication Systems and Networks
- Computer Science
- Mathematical engineering

Materials, Structures & Mechanical Engineering

- Materials Science and Engineering
- Civil Engineering and Urban Planning
- Mechanical and Control Systems Engineering

7 Masters in research in «Sciences, Technologies and Health»

2 Doctorate schools (Ph.D.)

> **International relations:**

As a graduate engineering school, INSA-Rennes has adapted to the current socio-economic climate. Its international policy is based on student and lecturer mobility, knowledge of international issues, and scientific and intellectual curiosity that goes beyond national borders.

- International section (undergraduate)
- Autumn semesters in "Media & Networks" and "Optoelectronics"
- 21 % foreign students from 45 countries
- 100 % international student mobility
- International Masters in engineering double-degrees
- ECTS – European Credit Transfer System
- 10 modern languages taught
- 150 worldwide partnership agreements (50 countries)

International contacts

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Since its creation in 1977, Telecom Bretagne has affirmed itself as a pioneering "Grande Ecole" in education, research and enterprise. Telecom Bretagne includes nine teaching/research departments where high-level research is conducted in every sector related to information and communication technologies. Telecom Bretagne is part of 4 competitive clusters (Images & réseaux, Mer Bretagne, ID4Car and Valorial) and is a member of Institut Mines-Telecom.

> **Key figures:**

- 160 professors/researchers
- 1097 students including
 - 761 engineer students
 - 105 Post-master Certificate students
 - 197 PhD students
 - 34 Masters of Science students
- 7 research partnership structures
 - 2 CNRS laboratories Labsticc and Irisa / 1 INSERM laboratory Latim / Marsouin, Cominlabs, Cami, Pracom
- 3 campuses (Brest, Rennes, and Toulouse)

> **International relations:**

Telecom Bretagne has a very strong international dimension with more than 70 academic partnerships and up to 50% international students representing over 50 countries. It offers Master programmes abroad in Mexico, Morocco and Vietnam. International students are welcome on our beautiful campus where we provide accommodation and facilities. We offer several tracks for international students in French and English depending on their language proficiency. The requirements to obtain the Master degree in engineering include a B2 level in English, competency in a second foreign language and a minimum period abroad of 3 months. Every year, we send about 100 students abroad either as exchange students, degree students or interns for an average duration of 5 months.

International contacts

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A graduate school of engineering preparing multi-disciplinary engineers

- With several fields of study: Computer science, Networks and Telecommunications, Electrical Engineering and Robotics, Mechanical Engineering and Energetics, Materials Science, Industrial Engineering.
- Recognized for its strength in managing team-oriented projects
- Student supervision with focus on small-group learning with graduating classes that place their emphasis on quality versus on quantity.
- Studies oriented towards personal and professional career development.

> **Key figures:**

- 470 students every year
- 35 administrative and technical staff
- 100 engineering mentors and tutors
- Average 1st job search time : within 2 months of graduation for more than 88% of our graduates
- 4 research departments
- 90 main university partners
- 1200 engineers qualified

> **International relations:**

Compulsory overseas experience (a year of studies in a foreign university, an industrial traineeship or a yearlong internship working in industry).

Opportunity of studying with foreign students here in our school.

Member of the International Association of LaSallian Universities - IALU (composed of over 80 different universities.)

Educational partnerships

Agreements and partnerships with several Higher Education Institutions and Master's Degree exchanges with several universities and graduate engineering schools in various fields of research.

Dual Master Degrees with business schools, engineering graduate schools and universities.

International contacts

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As the Army School of Command and Leadership, the Saint-Cyr Coëtquidan Military Academy trains prospective officers whom the French Army will need in its operational commitments. It provides a demanding and unique multidisciplinary teaching which includes military, human and academic training. The cadets are actively involved in their training and gradually acquire the technical, tactical and social skills that will constitute the foundation for the analysis and decision-making abilities required in complex and critical circumstances.

In this modern and progressive institution, military expertise is at the core of the training, whose vocation is to produce military leaders with great tactical skills, able to defeat the adversary. To that purpose, the training is largely based on the lessons learnt from the French Army's current operational commitments.

While focusing on the military profession, the academic courses are supplemented by scholar research. It provides prospective officers with the keys to understanding the complex situations they will have to evolve in. It also contributes to their intellectual development, essential to future decision-makers who will have to imagine the solutions to tomorrow's challenges.

As a school open to the world, the academy has secured diverse partnerships - with universities, military and scientific institutions, nation- and worldwide - in order to develop a culture of defence tailored to today's world, and to anticipate future threats. They are involved in the review process set out by the Ministry of Defence on the evolution of conflict situations. Indeed, they recently took part in cyber security and cyber defence research, thanks, in particular, to the contributions of its research.

> **International relations:**

As a top-level military academy, the Saint-Cyr Coëtquidan establishment is steadily open to partnership with prominent universities, and is a prime example in the field of training for leadership. Training abroad and international exchanges are obviously crucial to young officers, who will always work within an international context, often in remote countries and among different cultures.

Each year more than 30 countries show they have full confidence in France by sending their prospective officers to be trained in the Academy. Those cadets or trainees are always included within an intake of French cadets. The Bologna Process (Bachelor's and Master's degrees) facilitates exchanges (on a semester basis in particular) and ensures academic standards (ECTS credits).

100 foreign cadets for long-term courses and 150 foreign cadets for 3 week- to 5 month-training periods in academic and military courses. All Saint-Cyr cadets attend a 3-month international training period abroad, thus performing research work, and producing a Master's degree research paper.

International contacts

International Relations
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The Ecole navale (French Naval Academy) was founded by royal decree in May 1830. The Academy aims at training naval officers who are simultaneously officers - leaders accountable for their actions - seamen - sailors able to run a ship and engineers - operators qualified enough to maintain complex and always updated equipments. To meet these requirements, cadets' sense of responsibilities is constantly put to the test. Midshipmen will therefore be asked to adjust to new circumstances, to communicate, to convince, «to learn how to learn» and to prevail. The curriculum is divided into 6 semesters: classes are equally balanced between leadership, naval and academic studies. This dense training is then put into practice during the 5-month-long sea-borne Jeanne d'Arc application academy. It aims at deploying the cadets within a crew on a long-haul distant operation. Almost three years after admission, they graduate as engineers. Thanks to exchanges with other French engineer schools such as Supélec or Arts et Métiers Paris Tech, some cadets can obtain a double graduation cursus. The science curriculum is directly connected with the research conducted at the IRENav (Institut de Recherche de l'Ecole Navale) where scientists and PhD students in naval engineering work. The Naval Academy Research Institute spans over mechanical and energy naval engineering as well as modelisation and processing of maritime information. It focuses its research works on industry projects.

> **Key figures:**

- 1100 students / year with an average of 600 permanently on site
- 50 faculty lecturers and 130 military staff
- 5 months at sea during the training Jeanne d'Arc mission
- 1 research institute
- A campus of 110 hectare

> **International relations:**

The Academy has strong connections with French and international organisations, universities, research laboratories. It also enjoys strong links with foreign naval Academies : BRNC (Britannia Royal Naval College) in the United Kingdom, Marineschule Mürvick in Germany, Escola Naval Militar in Spain and Portugal and the United States Naval Academy (USNA) among others. The exchange programme between France and Germany started since 1993, along a 4-year-long exchange of midshipmen between the Academy and the Marineschule Murvick. French cadets thus fully trained in Germany and vice versa. 10% of lectures are given in English. Semester exchanges have also been implemented between the French Naval Academy and those in Spain, Italy, the United Kingdom, Portugal as well as in the United States. Moreover, foreign officers from most of these nations are assigned at the French Naval Academy and vice versa.

International contacts

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The European School of Art - Bretagne was founded on 27 December 2010. It comprises the four higher schools of art of the towns of Brest, Lorient, Quimper and Rennes, with a total of nearly 900 students, making it the largest school of art in France. The European School of Art - Bretagne is accredited by both the Ministry of Culture and Communication and the Ministry of Higher Education and Research.

> **Training programmes:**

Three options: Art / Design / Communication

> **International relations:**

Students are encouraged to take part in the European and international mobility programmes so as to extend their experience to other cultures.

EESAB holds the Erasmus Charter ensuring student and teacher mobility in Europe and is also a member of ELIA, the European League of Institutes of Art.

EESAB has forged partnerships in Europe (Austria, Belgium, the Czech Republic, Finland, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, the Netherlands, Poland, Portugal, Romania, Spain, Switzerland, the United Kingdom), also in Argentina, Canada, Colombia, Costa-Rica, Mexico and the United States

International contacts

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The EHESP trains senior management at the national and international level in the health and social services sector.

> **Key figures:**

- 1,300 students from around forty countries
- 4,500 interns in continuing education
- 600 preparing for national competitive exams
- 1,400 lecturers
- 5 academic and research departments
- 1 doctoral network linking 10 doctoral partnership schools
- 1 laboratory for research on health and the environment (LERES)
- 9 research organizations in partnership
- 17 ERASMUS exchange agreements
- 90 internships abroad every year

> **International relations:**

EHESP's goal in developing strong international relations is to create and promote a network of partners to provide students with an international education and encourage international mobility. The international relations department also brings together teams from around the world to cooperate on EHESP research and is firmly committed to sustainable skills transfer. EHESP has developed a wide range of training and research partnerships with universities in Europe (Germany, Denmark, Spain, The Netherlands, Poland, United Kingdom); in the Mediterranean region (Algeria, Morocco); in the Americas (Brazil, Canada and the USA); in Africa (Burkina Faso and Mali) and in Asia (China and Vietnam).

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Established in 1992, the School of Environmental Management & Engineering (EME), is specialized in environmental engineering and sustainable development. EME is recognized by the French Government and accredited by la Commission des Titres d'Ingénieurs, as well as la Conférence des Grandes Ecoles.

EME offers a 5-year integrated Masters program which provides graduates with a wide range of Environmental Science skills and knowledge, an MSc in Sustainable Management and Eco Innovation (in cooperation with ESC Rennes School of Business), an Environmental Project Management Bachelors program and a Specialized Master in Industrial Eco-Efficiency.

The school boasts a research center working in conjunction with industries and research laboratories on projects of environmental studies in an international perspective. Our mission is to develop the knowledge and engineering skills of our students and prepare them to respond to ever changing environmental issues and help shape a sustainable future. EME has been awarded an Erasmus Extended Charter, which enables students to work in an international context through studies abroad and foreign internships.

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The ENIB is a public engineering school located on the Brest-Iroise Science Park in Brittany, France. This science park groups together a number of laboratories and cutting edge industries. The ENIB's aim is to transmit tangible skills in terms of computer science, electronics and mechatronics with an industrial approach of the teaching which will help our students to find work in various sectors: aeronautics, robotics, R&D, industrial computing, energy, etc.

> **Number of students:**

650 students every year / 4050 alumni currently working as engineers.

> **Duration of study:**

5 years for students admitted in the first semester / 3 years for students admitted in the 5th semester.

> **Organisation of study:**

Courses divided into semesters and intersemesters. Each semester takes place both in the autumn and in the spring.

> **Options:**

Electronics / Computer science / Mechatronics.

> **Research masters:**

- Computer science
- Optical telecommunications and photonics
- Micro-technology, networks and communicating systems
- Signals and circuits
- Materials & structures

International contacts

International Relations
Email: international@enib.fr

ENSAI is the top graduate school specializing in Statistics in France (a French Grande école, and more specifically, one of the prestigious écoles d'ingénieurs). ENSAI, along with ENSAE-ParisTech, is a part of the Group of National Economics and Statistics Schools (GENES), which brings together the research and pedagogical activity of INSEE (French National Institute of Statistics and Economic Studies). ENSAI offers six specializations in the fields of Advanced Statistical Engineering, Biostatistics, Statistical Engineering in Health and Territorial Policies, Quantitative Marketing and Customer Relationship Management, Risk Management and Financial Engineering, and Statistical and Decision-Making Systems. ENSAI also offers PhD supervision in these specializations after graduation.

ENSAI's education trains its students to become qualified specialists in Statistics, capable of information processing and analysis. Students acquire threefold expertise in Statistics, Quantitative Economics and Econometrics, and Computer Science, universally recognized in all professional sectors. They are sought after and highly paid by industry.

Upon completion of the 3-year program, graduates become full-fledged statisticians. They obtain the Diplôme d'ingénieur, equivalent to a Master of Science (MSc) in Statistics (representative of a total of 5 years of higher education and 300 ECTS credits).

Founded in 1994, ENSAI has been located on the Ker Lann Campus since 1996. The campus, 10 kms. from Rennes, is ideally located and offers pleasant working and living conditions with a wide range of facilities covering accommodation, catering, sporting activities and associations.

> **International relations:**

As a member of the group GENES, ENSAI participates in the international strategy of the group and benefits from its numerous networks. ENSAI also develops its own international strategy around three main axes: maintaining and expanding a network of professional contacts abroad which welcome ENSAI's interns, encouraging study abroad and academic exchanges, and promoting international mobility of its research professors.

International contacts

International Relations
 Ms Esther Lalau Keraly and Ms Colleen Ann Jaycox
 Tel: (+33) 02 99 05 32 43 / 44
 Email: international@ensai.fr

ESC Rennes School of Business is an international school of management located in Rennes (Brittany, France). Its ambition is to "prepare, through education and research, innovative and responsible managers to perform in a global environment".

ESC Rennes has developed a real singularity in terms of degree of internationalization; 85% of the school's full time faculty and 1/3 of the students are international coming from more than 70 different countries.

Created in 1990, the School offers a full range of programs entirely taught in English: two Bachelor programs, 12 master programs, a PhD program, as well as Executive Education programs (ExecMBA, and DBA and short programs).

These different programs benefit from the know-how developed within the School's Research Centres: Responsible Businesses and Technology and Innovation Management ESC Rennes is accredited by AACSB, the European Foundation for Management Development (EFMD) and the French Ministry of Higher Education.

> **Key figures:**

- 3602 students, 1/3 international
- 80 international Full time faculty
- 12 Master's Degrees
- 2 Bachelor Degrees
- 1 PhD program
- 1 Executive MBA program
- 1 Doctorate of Business Administration program
- 2 Research centers

> **International relations:**

ESC Rennes has developed relationships with universities and business schools worldwide. Today, the school has 185 active partnership agreements with some of the world's top Business Schools. This network facilitates exchange of students, double degree agreements, joint programs, co-teaching, research cooperation and faculty exchange.

International contacts

Director of Development
 Ms Cathy Racault
 Email: cathy.racault@esc-rennes.fr

Vice Dean for Programmes
 Ms Laurence Lambert
 Email: laurence.lambert@esc-rennes.fr

ENSTA Bretagne is a French national graduate engineering institute which offers three year engineering programmes to both civilian and military students. The courses are of high quality and are designed to ensure that students have an excellent level of expertise in their chosen field of Engineering. ENSTA Bretagne graduates are able to design, build and manage complex electronic and mechanical systems.

> **Training programmes:**

ENSTA Bretagne is a multidisciplinary engineering Institute based in Brest (France), which offers specialized courses in Naval Architecture, hydrography, Automotive Engineering, Energetic Materials, IT and related areas.

> **International relations:**

ENSTA Bretagne is committed to developing a strong international perspective. ENSTA Bretagne's international strategy is to develop and maintain close ties with international, industrial and academic partners through various initiatives. These initiatives include conventions with foreign universities, involvement in European projects and participation in student exchange programmes.

Furthermore, ENSTA Bretagne academic programmes provide ample opportunity for students to learn more about other countries and cultures. Students are given the option of studying several foreign languages. It is also common for them to do their work placements abroad.

International contacts

Head of International Relations
 Ms Eliane Fonseca
 Email: eliane.fonseca@ensta-bretagne.fr
 Tel: (+33) 02 98 34 89 01

Sciences Po Rennes is one of France's nine Political Science Institutes. With highly selective admission criteria and a pluridisciplinary approach, the Political Science Institutes offer some of France's most challenging and prestigious academic study programs.

> **Key figures:**

- 1100 students
- 15 Master's Degrees
- 37 teaching and research staff
- 95 Master's Degree courses that can be followed in the different Sciences Po Institutes throughout France (Aix-en-Provence, Bordeaux, Grenoble, Lille, Paris, Rennes, Strasbourg and Toulouse)

> **Study programs:**

- Economics
- Law
- Political Science
- History
- Management science
- Foreign languages

> **International relations:**

All students spend their third year abroad, either on an internship with a company, NGO or Embassy, or studying with one of our 120 university partners. The international dimension is also underlined by the fact that students have to study at least two foreign languages, that their qualifications are recognized at the European level, or by the existence of a dual Franco-German qualification. In return, Sciences Po Rennes hosts over a hundred international students every year, who can be awarded a qualification delivered by the Institute: i.e. the «Political Studies Certificate» either for the program in French or for the program in English.

International contacts

International Relations
 Email: relations.internationales@sciencespo-rennes.fr
 Tel: (+33) 02 99 84 39 48

Supélec, short for «Ecole Supérieure d'Electricité» is one of France's prestigious Grandes Ecoles, one of the top in the fields of information, energy and systems.

Supélec was founded in Paris in 1894. Today the school is organised in a three-campus network, located in Gif-sur-Yvette in the outskirts of Paris, Rennes in Bretagne and Metz in Lorraine.

The school has three main missions : education, research and development and life-long training.

Supélec, a French grande école of engineering, sets standards of excellence in the areas of information, energy and control systems, and thus offers its students a privileged access to all sectors of the economy. The quality of the 460 engineers who graduate each year is recognized all over the world.

Like all major institutions of higher education, Supélec pursues the three-way mission of education, research and life-long training.

> International relations:

Implementing its international policy, Supélec maintains active partnerships with the world's leading education and research establishments. Bilateral agreements (for the major part concerning double degree programmes) exist with a large number of universities in North America, Latin America, Australia and Europe.

Supélec is a member of the TIME network (Top Industrial Manager for Europe) which consists of 55 of the most prestigious organizations in Europe.

International contacts

International Affairs Office
Ms Anne Chrétien
Email: anne.chretien@supelec.fr

The French Agency for Food, Environmental and Occupational Health & Safety (ANSES) was founded on 1 July 2010 from the merger of the French Food Safety Agency (AFSSA) and the French Agency for Environmental and Occupational Health Safety (AFSSET).

ANSES undertakes monitoring, expert appraisal, research and reference missions in a broad field of competence that encompasses human health, animal health and welfare, and plant health.

It offers a cross-functional perspective of health issues enabling it to fully address all the types of exposure (from particles, waves, inhalation, ingestion, etc.) to which a person may be subjected, intentionally or otherwise, at all ages and stages of life, including at work, while travelling, while engaging in leisure activities, or via food.

International contacts

Bretagne Laboratory Direction
Mr Pascal Sanders
Email: pascal.sanders@anses.fr
Tel: (+33) 02 99 17 27 47

The Inria Rennes - Bretagne Atlantique centre has developed many scientific cooperation programs with international laboratories. It is a committed actor in developing the European Research Area (European projects, ERC grants). The centre also participates in EIT ICT Labs, a European initiative to construct tomorrow's sustainable digital society.

Bretagne centre is intensifying its research in the fields of multimedia, computing, robotics and biomedical with its innovative technological platforms:

- Multimedia
- Robotics
- Computing
- Biomedical

> Key figures:

- 396 scientists
- 216 people dedicated to research support
- 47 nationalities represented
- 33 Inria project-teams
- 180 software titles
- 2879 publications

> International relations:

The Inria Rennes - Bretagne Atlantique centre has developed many scientific cooperation programs with international laboratories. It is a committed actor in developing the European Research Area (European projects, ERC grants). The centre also participates in EIT ICT Labs, a European initiative to construct tomorrow's sustainable digital society.

International contacts

Development and External Relations
Mr Patrice Gélén
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Communication
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Tel: (+ 33) 02 99 84 22 48

Irstea is a research organization which, since more than 30 years, works on major issues of a responsible agriculture and territories sustainable planning, water management and related risks, drought, floods, inundations, the biodiversity and complex ecosystems study in their interrelation with human activities.

Multidisciplinary research, appraisal and support to «agri-environmental» public policies «, partnership with territorial authorities and actors of the economic world, such are the characteristics of Irstea, qualified «Carnot Institute». In the continuity of the research model of Cemagref, every day our engineers and our researchers put a lot of themselves into their mission : to take up the challenge of global change comprehension for a sustainable and environmentally friendly development

The Rennes Research Centre is one of nine Irstea sites.

Its work in research, advancement of knowledge and support of public environmental policies focus on 2 fields:

- The knowledge and improvement of the quality and safety of food products, transformation processes and more generally, expertise in the industrial processes applied to the agricultural and food industry (IAA).
- The conception and development of bioprocesses for the treatment of waste and organic effluent (municipal waste, agricultural-food industry effluent, livestock farming effluent) and their management.

> Key figures:

- 2 research units
- 20 doctoral and post-doctoral students
- 60 permanent staff of which half are researchers and engineers
- 25 trainees from higher education facilities

International contacts

Rennes Center Board
Email: directeur.rennes@irstea.fr

Located on the Brittany coast of the English Channel, the Station Biologique de Roscoff was founded in 1872 by Henri de Lacaze Duthiers, Professor at the Sorbonne University, who was attracted by the exceptional variety of biotopes in the area.

Today the Station Biologique de Roscoff is a renowned research and training centre in marine biology and oceanography, jointly operated by the French National Centre for Scientific Research (CNRS) and the Pierre & Marie Curie University (UPMC).

The SBR is one of the three off-campus marine stations of the Pierre and Marie Curie University (UPMC - University of Paris 6). The SBR organises specialised, on-site courses for Bachelor's and Master's degree programmes in Science and Technology offered at UPMC. The SBR also organises continuing education courses and Erasmus summer courses in conjunction with other European universities.

At Roscoff, students gain hands-on contact with the marine environment and benefit from teaching that draws on current research undertaken in the SBR laboratories. During their stay at Roscoff, students are accommodated in SBR residence housing.

> **Training programmes:**

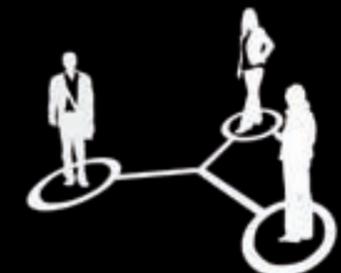
The Station Biologique de Roscoff is one of the three marine stations of the Université Pierre and Marie Curie. Courses given at Roscoff are an integral part of the curricula of Bachelor's and Master's degrees offered at UPMC.

- Professional Degree: Food Science with a concentration in Food Safety
- Bachelor of Science Degree in Life Sciences/Dual specialisation: Biology - Mathematics
- Master of Science Degrees - Summer Schools

Every summer the Station Biologique de Roscoff proposes 3 intensive courses on scientific diving and taxonomy of the fauna and flora of the marine environment. The courses involve students and teachers from all over Europe and are part of the University Pierre et Marie Curie "Universe, Environment and Ecology" masters program.

International contacts

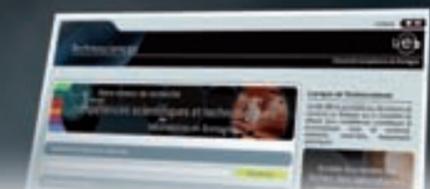
International Relations
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With the Regional Centre for the Fight against Cancer Eugène Marquis de Rennes the medical expertise associated with the most elaborate techniques allow us, thanks to developments in research, to provide the best adapted kinds of care.

The Centre Eugène Marquis, member of the French Federation for the Fight against Cancer (Fédération Française des Centres de Lutte Contre le Cancer) plays an important role in the teaching and research on oncology in Brittany.

The two University Hospital Research Centers of Brittany, located in Brest and Rennes, are members of the UEB. These centers have three missions: caring, researching and teaching.

Indeed, they participate in medical and pharmaceutical research and sanitary education. They also provide academicians and post-graduate teachers in medicine and pharmacy and trains paramedic staff through their schools.



Project supported by :



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