

DISCOVER THE MOST SPECIALIZED GRADUATE SCHOOL IN STATISTICS IN FRANCE



Associated with INSEE
The French National Institute
of Statistics and Economic Studies



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*). Historically associated with INSEE (French National Institute of Statistics and Economic Studies) and from both the French Ministry of Finance and the Ministry of the Economy, ENSAI offers six specializations, as well as the possibility of PhD supervision in these specializations by a member of faculty following graduation:

Advanced Statistical Engineering	Biostatistics	Data Modeling for Spatial Analysis and Health Economics
Data Science	Quantitative Marketing and Revenue Management	Risk Management and Financial Engineering

Admission to ENSAI is usually preceded by two years of post-secondary, intensive preparatory classes in either Mathematics or Economics, followed by nationally competitive examinations. 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 become sought-after, highly paid professionals.

Upon completion of the 3-year program, graduates become engineer-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). ENSAI has been accredited to award this degree by the French Accreditation Board for Engineering Education, the CTI (*Commission des Titres d'Ingénieur*).

ENSAI has also been accredited by the French Ministry of Higher Education and Research to deliver two Master's degrees:

Master of Science in Big Data	Master of Science in Public Statistics
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These are two-year programs that are open to French and International students with varying backgrounds. Students can also transfer directly into the second year if they have the necessary prerequisites.



ENSAI - Spring 2014

WHAT IS A *GRANDE ÉCOLE*?

The French higher education system is two-fold: universities and *grandes écoles*. While university education starts immediately following completion of secondary school. *Grandes écoles* accept students who have successfully completed at least 2 years of intensive, post-secondary preparatory courses (*classes préparatoires*). Student recruitment is generally centered around national, competitive written and oral examinations.

These graduate schools also have smaller student bodies, many more class hours, and a smaller student-professor ratio when compared to universities. *Grandes écoles* generally propose more specialized programs, are recognized for their contributions to research, and have a reputation for educating the nation's top executives, politicians, and civil servants.

Students graduating from *grandes écoles* have completed 5 or more years of higher education and hold degrees (such as a *diplôme d'ingénieur*) that are held in high esteem internationally. These students are also eligible for direct enrollment in doctoral programs.

Grandes écoles have the authority to deliver multiple types of degrees, such as our aforementioned *diplôme d'ingénieur* and Master's degrees.

anta Analysis in France



ENSAI Business Networking Forum

CORPORATE PARTNERS

To help students enter the professional world, ENSAI has put at its students' disposal a vast network of professional contacts, both domestic and international. ENSAI seeks professional partners in order to:

- promote networking between students, graduates, professors, and executives
- create synergy through common actions concerning research, communication, internship opportunities, graduate recruitment, and teaching

ENSAI's domestic corporate partners include:



OTHER PARTNERS

ENSAI is a member of several academic and research organizations including the Rennes International Mobility Center (CMI - *Centre de mobilité internationale de Rennes*), the Grandes Ecoles Confederation (*Conférence des Grandes Ecoles*), the Erasmus Programme, the Franco-German University (UFA - *Université franco-allemande*), the Agence Universitaire de la Francophonie (AUF), and the "n + i" Network, as well as being partnered with the French Statistical Society (SFdS - *Société Française de Statistique*) and INSEE's Secure Remote Access Center (CASD - *Centre d'Accès Sécurisé Distant aux données*).



DEGREE-AWARDING ACADEMIC PARTNERSHIPS

ENSAI has established agreements with institutions in France and abroad, including double degrees.

NATIONALLY

Bachelor of Science in Applied Economics

with Paris Dauphine University



Bachelor of Science in Mathematics

with the University of Rennes 1



Diplôme d'ingénieur (equivalent to Master of Science)

with ENSAE ParisTech (École Nationale de la Statistique et de l'Administration Économique)



Master in Finance and Strategy

with Sciences Po Paris



Master in Financial Regulation and Risk Management

with Sciences Po Paris



Master in Economics and Public Policy

with Sciences Po Paris



Master of Science in Finance: Advanced Studies and Research in Finance

with the University of Rennes 1's Graduate School of Management (IGR-IAE - Institut de Gestion de Rennes)



Master of Science in Mathematics and Applications, specialization Mathematical Statistics

with the Universities of Rennes 1 and Rennes 2, INSA Rennes (The National School of Applied Sciences), and ENS Rennes



Master of Science in Statistics and Econometrics, specialization Public Statistics

with the University of Rennes 1



Master of Science in Public Health, specialization Modeling in Clinical Pharmacology and Epidemiology

with the Faculty of Medicine at the University of Rennes 1



Master of Science in Health Economics, specialization Public Health

with Aix-Marseille School of Economics (AMSE)



Diplôme d'ingénieur in Risk Analysis, Optimization and Modeling (equivalent to Master of Science)

with INSA Rennes (The National School of Applied Sciences)



PhD Agreement with the Matisse Doctoral School of Mathematics, Sciences, and Information Technology

with the University of Rennes 1

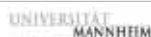


INTERNATIONALLY

Franco-German University Program

Master of Science in Economics

with Universität Mannheim



Master of Science in Statistics

with Humboldt Universität zu Berlin



Master of Science in Economics

with Humboldt Universität zu Berlin



Master's-level Double Degree Agreements

Tongji University (Shanghai, China)
Institut National de Statistique et d'Économie Appliquée (INSEA) (Rabat, Morocco)
Ecole Supérieure de la Statistique et de l'Analyse de l'Information (ESSAI) (Tunis, Tunisia)



Additional Agreements

Master of Science in Economics and Econometrics

with the University of Southampton (UK) (Co-Sponsorship Agreement)



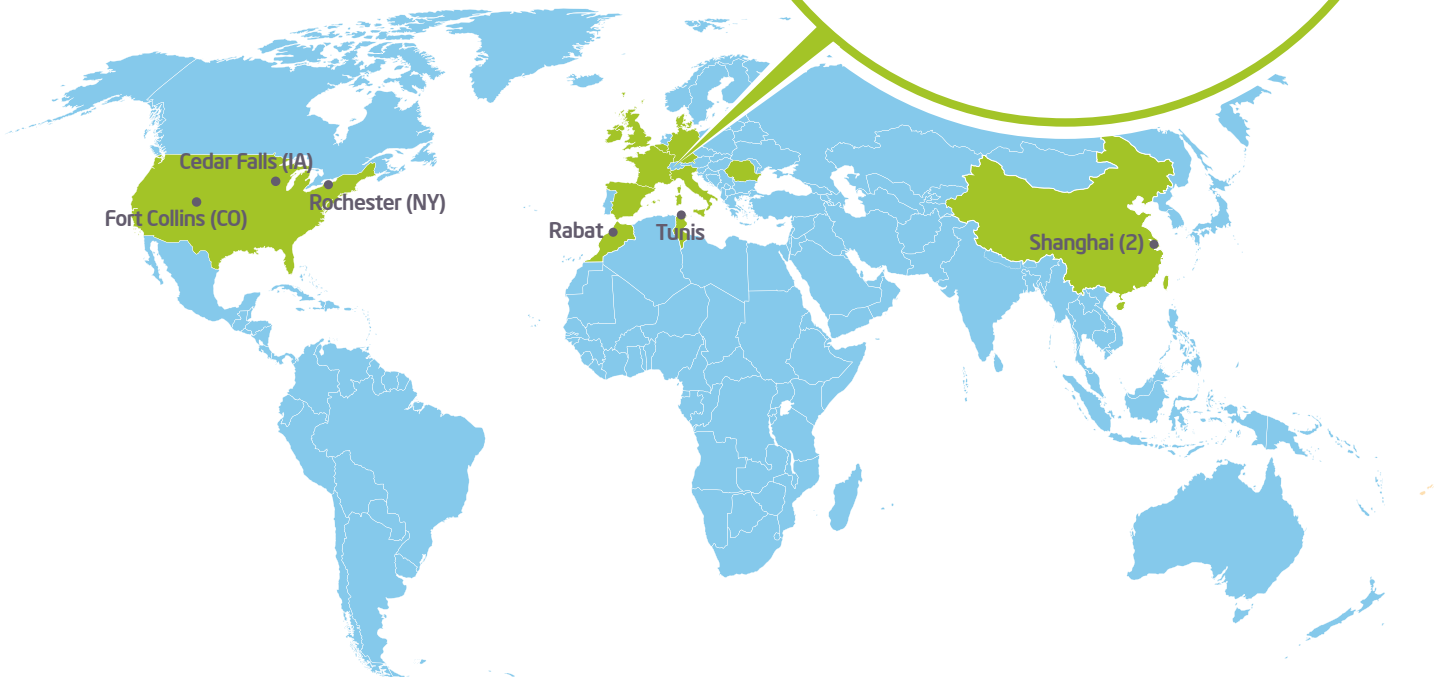


INTERNATIONAL RELATIONS

ENSAI develops its own international policy around three main axes: maintaining and expanding a network of professional contacts abroad, encouraging study and academic exchanges abroad, and promoting the international mobility of its research professors.

ENSAI has 16 academic partners in 7 European countries through the Erasmus+ Program, as well as several partnerships with institutions in North America, Asia, and Africa.

All engineer-statistician students pursuing the *Diplôme d'ingénieur* are required to complete a minimum 4-week period abroad during their studies (either through studying or internships).





KEY EMPLOYMENT FIGURES

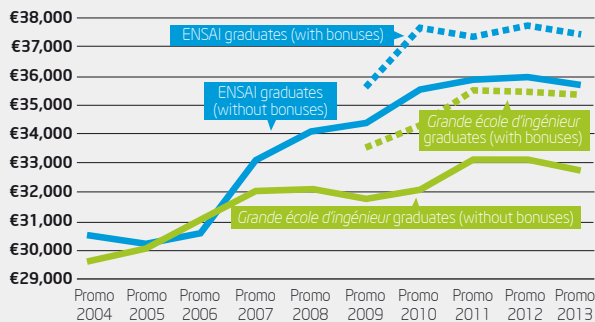
FOR ENGINEER-STATISTICIANS

ACCORDING TO RESULTS FROM THE GRANDES ECOLES CONFEDERATION Annual Survey – 2013 graduates

(Enquête CGE sur l'insertion ©2014)

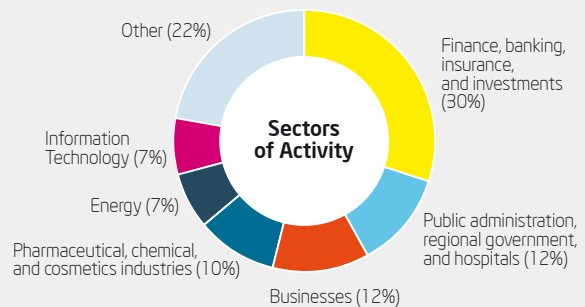
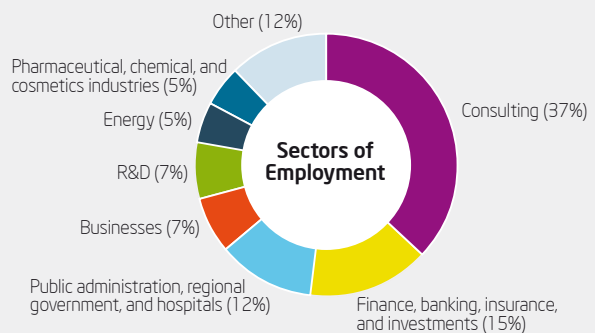
NEARLY 100% Post-graduation employment rate*
€37,500 Average gross annual starting salary (including bonuses) for new graduates

Average Gross Annual Salaries for Employment in France
 Graduating Classes of 2004-2013 polled 3-6 months after leaving ENSAI



* 90% upon leaving ENSAI ; 98% approximately one year after leaving ENSAI

Leading Professional Employment Sectors



"After my End-of-Studies Internship, I was given a fantastic opportunity by Business Researchers, Inc., a small consulting firm, to stay on with them in San Francisco. The different classes I took and internships I carried out during my education at ENSAI really helped me understand the importance of Statistics in our current economy and prepared me well to face the different challenges real-life data can bring. The international opportunities of the program were always a plus for me, and here I am, living the American dream!"

Tiffany Geslain - Class of 2010



"I completed my 6-month internship in a health economics consultancy in London, where I stayed on as a Research Analyst, quickly progressing into Senior Analyst and then Project Leader. After 4 years there, I joined GSK Vaccines headquarters in Belgium, where I led health economics activities around their pertussis vaccines. Now I have been heading the UK affiliate of a French health economics consultancy for two years as Director of UK Operations. ENSAI gave me the theoretical and practical background necessary to a successful career, as well as the ability to collaborate and communicate with people from different backgrounds."

Julie Roiz - Class of 2007



INTERNSHIPS FOR ENGINEER-STATISTICIANS

In order to be as thoroughly prepared as possible for the workplace, ENSAI students all complete three compulsory internships, one of which must be abroad. These are integral parts of their curriculum. When done abroad, these internships allow students to broaden their awareness of other social and professional cultures as well as to improve their language skills.

FIRST YEAR INTERNSHIP

Length

Minimum of 4 weeks between June and the end of August following the first year of study

Objective

To discover the professional world and how a company functions, regardless of its area of specialization

Description

Students are assigned as an intern to a non-executive, non-management position. Interns discover or enrich their knowledge of the business world as well as aspects of social organization and follow manufacturing and distribution methods for a product or service from the pre-production phase (consumer needs, design) to the post-production phase (market distribution, satisfaction studies).

At the end of this period, each student better understands the ways in which work is assigned, distributed, and organized in a business, as well as the different mechanisms that govern the production and distribution of goods and services. The student also observes social relations in the workplace, and if permitting, any instances or services where statistical methods are or could be used.

Examples

- Teacher's assistant in Physics and Chemistry at a secondary summer school
- Assistant market analyst in computer helpline service
- IT intern updating country's portal WebPages for Library of Congress
- Aide in creation of international magazine

Report

A written report in French or English finalizes the internship, in which students detail their experience within the host organization and the different observations made during this enriching experience.

Personal accounts



"I did my internship in a Chinese construction company located in the city of Côn Tho in Vietnam. I had to estimate the costs of a bridge construction over the Mekong. It was a truly rewarding experience because I discovered a new world, a new way of thinking and working. The languages spoken in the company were English, Mandarin and Vietnamese. I could not speak the last two, but it allowed me to significantly improve my English. I honestly think that going there gave me qualities that will undoubtedly help me to work in an Asian country in the future."

Stéphanie Kauv - Class of 2013



"My First-Year Internship was in BforBank, a private subsidiary of Credit Agricole. I found it thanks to a third-year student who was completing an internship there at the time. It took place at La Défense in Paris, an ideal environment to discover the professional world. There was also a very good atmosphere where I was welcomed, within the customer service relationship team composed of fairly young professionals. During this internship, I learned to adapt to new software, and the occasional statistical work that I had the opportunity to complete gave me valuable professional preparation. Overall, it was a fantastic experience."

Julien Neveu - Class of 2012



APPLIED STATISTICS INTERNSHIP

Length

Minimum of 8 weeks following the second year of study between mid-May and mid-September. Depending on the company/organization/research center's needs, the internship can be (and often is) extended to last from 8 to 12 weeks.

Objective

To allow students to put to practical use the theoretical knowledge acquired during their first two years at ENSAI. Advancing along their professional path, students spend this internship applying the numerous and sophisticated statistical tools acquired at ENSAI in an authentic, professional setting.

Description

It is mandatory for the intern to have a specific task, or an investigation question, and for the context of the internship (data availability and statistical supervision) to allow the student to work on the topic and to respond to the investigation question in a suitable environment.

A description of the internship, the context, the subject matter, as well as the methodology that will be used, should be clearly stated in the internship offer. The host organization nominates an Internship Supervisor who closely follows the intern from a technical point of view and optimizes the conditions in which the internship is carried out.

Examples of typical internship topics

- Construction of scoring systems for credit cards
- Applied research in airline revenue management forecasting using advanced time-series and customer choice models
- Evaluating genetic counseling for mammogram referrals in women with a familial risk of breast cancer
- Environmental risk factors of Hypospadias

Report

At the end of the internship, students must complete an Internship Report in French or in English (12-15 pages). The supervisor has a role in evaluating the internship.

Personal accounts



"My second-year internship at Rutgers University, New Jersey was a wonderful experience. Both humanly and professionally, it was one of the most fulfilling experiences of my life and a first real-world vision of the research field. I had the opportunity to apply statistical concepts taught in our second year, such as survival analysis and MCA, but also to focus on the theoretical aspects of those methods. Moreover, this was of course a great way to discover the USA, to meet some very nice and interesting people, and to perfect spoken and written English. I recommend this to everyone who wishes to live an outstanding experience and strengthen their statistical and interpersonal skills."

Stéphane Jankowski – Class of 2015



"My two months abroad in Boston at Averion International studying Clinical Trial Statistics were a really good experience. I learned a lot from a statistical point of view: I read papers to learn new methods, compute them, and apply them to current studies which were used and sent to clients. I had the feeling of doing something useful and very interesting! From a personal point of view, it was a wonderful experience; people were so nice and friendly. During this time, I learned a great deal about the language, a new culture and a new way of life. I hope to do it again!"

Marie-Karelle Rivière – Class of 2011



END-OF-STUDIES INTERNSHIP

This is the final step that allows students to obtain their degree, equivalent to a Master of Science in Statistics.

Length

From 5 to 6 months between the beginning of April and the end of September, following the students' third and final year of studies.

Objectives

Technical: A specific task is given to all interns who must, with the help of their theoretical knowledge and abilities, attempt to respond to this mission while making use of the surrounding environment as best as possible.

Professional: Interns are to mature in a working environment, to perfect their knowledge of the professional world, to enhance their interpersonal skills, often leading to a first permanent position.

Description

The internship focuses on a genuine project compatible with the high level courses taught at ENSAI and must be of a clearly graduate level (equivalent to 5 years of post-secondary education, or Master's level). Furthermore, the subject of the internship must be closely related to the student's area of specialization at ENSAI. The professor monitoring the internship, the Director of Studies (Dean) as well as the Office of Communications and Public Relations must approve each project.

A clear description of the internship must be stated in the internship offer. The statistical methods called upon to carry out the project can demand extended research on the part of the student. The subject, terms, and all details of the internship are included in a 3-way Internship Agreement between the student, ENSAI, and the organization.

The host organization names an Internship Supervisor assigned with the task of closely following the intern from a technical point of view and optimizing the conditions in which the internship is carried out. At the onset of the internship, all required real data is made immediately available.

Examples of typical internship topics

- Developing a fragile scoring chain
- Modeling the correlation between credit risk and market risk
- Web mining and measuring the audience on the internet through the use of artificial intelligence tools in auditing
- Studying mixed models to compute coefficients of random heteroscedastic regression in quantitative genetics

Internship Report

The intern must produce a 40-50 page final report. An oral defense is organized in front of a jury composed of a president, a vice-president and an ENSAI professor. The internship supervisor is also asked to evaluate the intern. The final mark takes the jury's comments as well as those of the Internship Supervisor into account.

Personal accounts



"After my specialization in Quantitative Marketing and CRM, I began a 6-month internship at an e-retailer company in Barcelona, with colleagues coming from 34 different countries. This highly international environment introduced me to new ways of working, and convinced me that Statistics are valuable and considered everywhere as a crucial, decision-making tool. Indeed, in this company, there was an unlimited volume of data available, in which anyone could become easily lost. But my statistical expertise gained at ENSAI helped me to understand marketing issues, turn them into coherent analytical plans and build models in order to generate insight and provide recommendations."

Arnaud Amaraggi - Class of 2009



Personal accounts



"My End-of-Studies Internship took place at ONERA (Office National d'Études et Recherches Aéronautiques), the French National Aerospace Research Center, in the Information Processing and Modeling Department, and I remained in this same department to complete my PhD. At ONERA, I worked on Bayesian filtering with applications in aerospace. I defended my PhD thesis in Rennes in 2013 and am now a postdoctoral researcher at CEA, the French Alternative Energies and Atomic Energy Commission. This final internship was the first step in my doctoral research; it gave me deeper insight into Statistics, its scientific applications, and its links to other fields. It was a very formative experience, opening doors to me for my future career as a researcher."

Paul Bui Quang – Class of 2009, Postdoctoral Researcher at CEA



"As my final year specialization was in Data Modeling for Spatial Analysis and Health Economics, my 6-month internship took place at the London office of Creativ-Ceutral, a consulting company specialized in Health Economics and market access. I worked there as a Junior Analyst in assessing the quality of meta-analysis studies. During this internship, I had the chance to meet experts with various backgrounds (from market access to biostatistics) and to participate in different projects where I could see practical applications of Statistics. Today, I am continuing my statistical career as a Research Analyst, working on meta-analysis."

Victor Laliman – Class of 2014



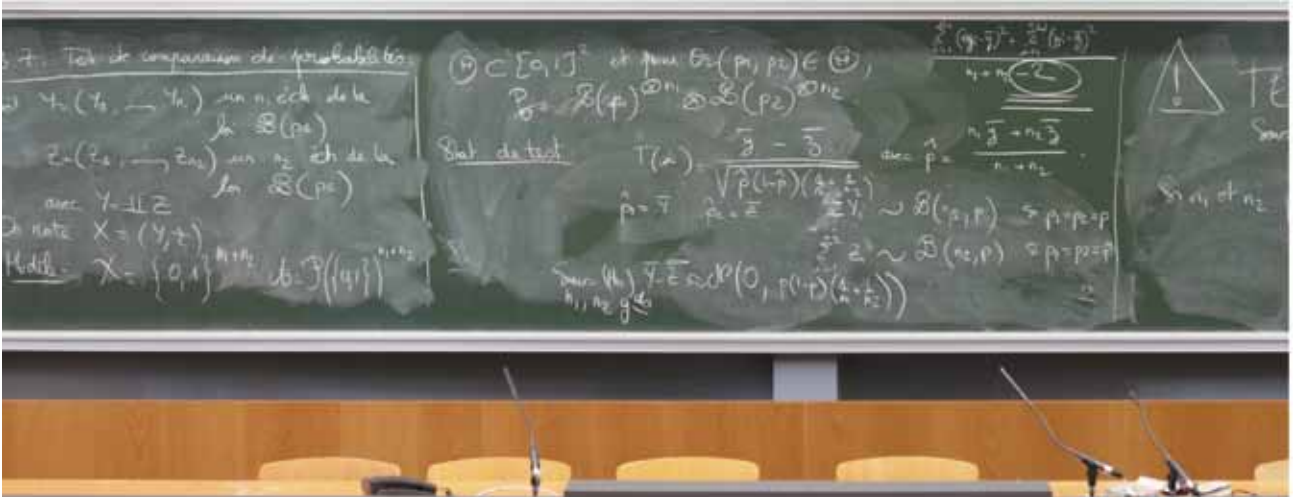
"Having specialized in Risk Management and Financial Engineering, I carried out my End-of-Studies Internship within the Monetary and Financial Statistics Division of the European Central Bank in Frankfurt. This experience gave me the opportunity to put into practice many modeling methodologies and specialized vocabulary acquired during my studies at ENSAI, as well as during my previous internship in Luxembourg. Using English as the working language, I discovered how interesting and motivating it is to work with people who have different backgrounds and working techniques. My initial training at ENSAI gave me the keys to continue working in an international and multicultural environment. As a consultant, I worked for 4 and a half years for French bank subsidiaries located in many European countries. I am now discovering North America, working for a major Canadian retail bank in Montreal."

Yannick Normand – Class of 2009, Senior Consultant at Groupe ESTIA



"I did my End-of-Studies Internship applied to Biostatistics in an Inserm research team (French National Institute of Health and Medical Research). My work focused on HIV, modeling its interaction with the immune system using the Bayesian approach in ordinary differential equations. ENSAI's well-rounded program helped me to understand quickly both practical and theoretical issues. The computer programming techniques I learned have proved to be an asset, especially in public research. The double degree program between ENSAI and the University of Rennes 1 prepared me especially well for a professional environment during my internship. Now, I'm working in the same place as a PhD student."

Mélanie Prague – Class of 2010





Ker Lann Campus - Winter

PRACTICAL LIFE

ACADEMIC CALENDAR

Exact dates to be published at www.ensai.fr every Spring for following year.

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Apr.	May	June	July	Aug.	Sept.
Diplôme d'ingénieur	1st & 2nd years		ORIENTATION	SEMESTER 1	SEMESTER 1		SEM. 2	SEMESTER 2	Spring Break***	SEM. 2		Internship 1 st year	Internship 2 nd year		
	3rd year		ORIENTATION	ACADEMIC YEAR	All Saints' Break	ACADEMIC YEAR	Christmas Break	ACADEMIC YEAR	ACADEMIC YEAR	Winter Break**	Internship				
MSc in Public Statistics			SEMESTER 1	All Saints' Break	SEMESTER 1	Christmas Break	SEMESTER 2 Courses	Winter Break**	SEMESTER 2 Internship						
MSc in Big Data		Intensive French Summer Program	SEMESTER 1	SEMESTER 1	SEMESTER 2	SEMESTER 2	SEMESTER 2 Internship								

*Mandatory Orientation Week for Erasmus and other foreign exchange students, including intensive French courses and refresher courses in Mathematics for first-year students.

**Winter Break: 1 week in late February/early March

***Spring Break: 1 week in March/April

COST OF STUDIES

**Annual Tuition/Registration Fees
(frais de scolarité/inscription)**

Diplôme d'ingénieur €740**	MSc in Public Statistics €270	MSc in Big Data €8,000*	+	€215** student health insurance coverage (mandatory)
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*Depending on candidate's status. See MSc in Big Data brochure for details.

**Non degree-seeking foreign students on exchange programs are exempt.

Scholarships

Certain international students are eligible to apply for ENSAI's grant based on financial need. There are 7 levels of eligibility for the grant, varying from simple exemption from annual registration/tuition fees and student health insurance coverage to receiving around €5,500 annually at the highest level.

COST OF LIVING

Estimated monthly expenses: €600-€900

€25 - €35 Smartphone / Data plan	€200 - €350 Rent (net) (private studio on campus generally higher than sharing an apartment in Rennes)	€35 Electricity	€250 - €350 Food	€30 Public transportation	€50 - €100 Other expenses
	€400 - €550 (+ security deposit equal to one month's rent, minus roughly €200 (French rent subsidies: CAF))		(on-campus student lunch meals: €3)		(laundry, clothing, entertainment, etc)



ACCOMMODATION

All Ker Lann Campus residence halls are open to foreigners as well as French students.

Website: www.campuskerlann.com/categorie/logement

Résidence Univercity, a residence hall particularly acute to the needs of foreign students, maintains close relations with ENSAI.

All newly admitted students should reserve accommodation as early as possible in the summer preceding their arrival, as vacancies are scarce by August.

SOCIAL LIFE

Students' Union

The Students' Union (*Bureau des élèves*) coordinates all the student associations. It oversees the running of a number of clubs: bridge, cinema, chess, music, photo, skiing, theatre, rock, humanitarian, lectures, debates, and games. It manages the school cafeteria and organizes Freshers' Weekend, the annual ski trip, and cultural and entertainment evenings; it also has its own publication (*Plaquette Alpha*).



ENSAI Gala Association

This organization plans the annual ENSAI Gala. More than just an event, the Gala is organized by the students themselves. This annual tradition allows for students of all generations and graduating classes to come together in a festive atmosphere. The evening almost always has a theme, accompanied by various eclectic activities.



ENSAI Junior Consultant (*Junior-Entreprise*)

ENSAI Junior Consultant functions as an actual consulting firm, where students provide companies and local authorities with advanced studies using their tri-fold skills in the fields of Statistics, Computer Science, and Economics.

Website: www.ejc.fr



Business Networking Forum Association

This association is responsible for fostering and maintaining contact between students and the professional world through organizing professional networking days and forums between students and professionals, as well as lectures and debates.

Website: www.forum-ensai.com

ASCAS - Alumni Association

The ENSAI Alumni association, ASCAS, encourages contact between the school, current students, +4,000 alumni, and companies. It organizes networking events and activities, publishes a magazine and alumni directory, helps welcome new students and sits on the various school boards (Improvement Council, Teaching Committee, etc).

Website: www.ensai.org



Inter-School Cultural and Sporting Association

This association brings together the three Grandes Ecoles on the Ker-Lann campus: the School of Environmental Engineering (EME, Ecole des Métiers de l'Environnement), ENS Rennes (Ecole Normale Supérieure de Rennes) and ENSAI. The association is a member of the French University Sports Federation, and it allows students to play sports competitively or for recreation, and to participate in cultural activities.



ADMISSION FOR *DIPLÔME D'INGÉNIEUR* PROGRAM

PROFILES AND APPLICATION PROCEDURES

Foreign students coming to ENSAI should have a high level in Applied Mathematics, with some knowledge in Economics and Computer Science being helpful. Ideally, they also should possess at least intermediate French skills (level B1, CEFR). In addition to the traditional, competitive exam method of admission, most foreign students applying to ENSAI fall into one of the following categories:

Erasmus Programme

Students from partnered institutions may come to ENSAI for either a semester or a full academic year and take courses at the first, second, or third-year level of studies.

- Application available for download at: www.ensai.fr, "International", "Foreign Students", "Erasmus Students"
- Deadline: Nominations from home institution and applications by **31 May** for first semester/academic year applicants, and by **31 October** for second semester applicants



"I would advise everyone to do Erasmus! It was one of the best years of my life and a great experience to learn about another country and culture. I learned more French in that year than I had in my entire academic career. The atmosphere at ENSAI was perfect for making new friends and getting stuck into French life! All the staff were really helpful, and the teaching was very good. I would say that this year has not only been helpful for my skills in French, but also my improvement in maths has been fantastic!"

Christopher Isted – from The University of Sheffield, ENSAI student 2013-2014

"n+i" Network

Students from this worldwide network may come to study for 2 years at ENSAI to complete a Master "n+" (ENSAI's *diplôme d'ingénieur*), and/or a Master "i" (entry into ENSAI's 2nd year/equivalent to 1st year of a Master's), or one of ENSAI's two Master of Science degree programs.

- Application: Students must apply through the "n + i" Network's specific procedures by creating a profile and then choosing ENSAI as one of their preferred institutions. ENSAI considers candidates from **all four selection rounds**.



"Coming to France and to ENSAI is the most important decision I have ever made in my life! As I had not studied French extensively prior to arrival, the first few weeks were difficult, and I found myself continually asking myself if I had what it took to succeed, to graduate. Fortunately, with the help of my teachers and classmates over the 2 years I spent at ENSAI, I succeeded in adapting myself to its academic rhythm, continued to appreciate life in France, and finally obtained my degree in statistical engineering. Today, I am working as a statistician specialized in marketing in Paris. Not only did I learn statistical concepts and methods at ENSAI, but this institution also gave me the skills and tools to apply them to solve real problems, extremely beneficial for my career. What's more, I will never forget those warm-hearted people and memories spent with them at ENSAI!"

Kai Sheng – Class of 2012

Double Degrees

Full-time students enrolled in an institution with whom ENSAI has a double degree agreement may complete a portion of their studies at ENSAI (and vice versa), thus obtaining both ENSAI's degree and a Master's from their home institution.

- Admission: Students must apply through and be nominated by their home institution by **April** for the following academic year.



"I always felt that living, studying and working abroad is a wonderful opportunity to learn more quickly and deeply about one's self and what one knows, and also about another culture and language. My experience at Humboldt University in Berlin proved me right. Not only did this year abroad make me rediscover methods and topics that I first discovered at ENSAI, but it was also a great chance to find new perspectives. The rigor in learning and the tools I learned at ENSAI proved to be a tremendous advantage in the field of Economics and Econometrics during my studies in Berlin, both programs are wonderful complements to each other. I definitely recommend this experience!"

Alexandra de Gendre – Humboldt-Universität zu Berlin, 2013-2014 – Class of 2014

Transfer Students

Transfer students or qualified degree holders residing and having been educated outside of France may apply for admission into ENSAI's first or second year depending on their qualifications. Applicants must either have successfully completed 3 or 4 years of undergraduate education and hold the equivalent of an honours degree/BSc, or have successfully completed the first year of a MSc in the fields of Mathematics, Applied Mathematics and Social Sciences, or Applied Computer Science.

- Procedure and deadline: Application available for download at www.ensai.fr and must be submitted to: ENSAI – Admission sur titres – Direction des études – Campus de Ker Lann – Rue Blaise Pascal BP 37203 – 35172 Bruz Cedex – France, no later than the indicated deadlines (mid-February for foreign candidates following a program abroad, late May for foreign candidates following a program in France). Candidates will be considered during a subsequent jury and may be asked to take part in an interview.
- French-speaking contact: admission@ensai.fr



"As a foreign student already possessing skills in Statistics and Probability, I decided that I wanted to study abroad in France in order to obtain an engineering degree and to specialize in Finance. I decided to apply to ENSAI because this institution not only offers a high-level academic program in Statistics and Econometrics but also a final-year specialization in Risk Management and Financial Engineering. This attractive option was exactly what I was looking for.

My education at ENSAI allowed me to deepen my knowledge in Statistics, Econometrics, Stochastic Modeling, and Numerical Methods; and to acquire new skills notably in managing and regulating banking risk, investment allocation and strategies, and innovation in financial engineering. In a nutshell, ENSAI prepared me tremendously for an outstanding professional career. Today, I work as a consultant in risk management and quantitative finance."

Ali Zerrad - Class of 2013

VISAS

Foreign students coming to France for the first time with non-European nationality and not in possession of a French permanent resident card (mostly Transfer Students) need to obtain a student visa at the French consulate of their home country. All nationals of the countries using the CEF procedure for visas need to register online at CampusFrance; this organization centralizes all first student visa requests in the concerned countries (if another country, follow necessary guidelines). In order to obtain a visa in a timely manner, students must choose ENSAI as a desired program and submit their completed online application mid-March at the latest, prior to a definitive admission decision from ENSAI.



⇒ Website: www.campusfrance.org

⇒ Degree programs offered:

- "Diplôme d'ingénieur de l'Ecole nationale de la statistique et de l'analyse de l'information du groupe des écoles nationales d'économie et statistique" (ID: 2680)
- "Master professionnel Droit, économie, gestion mention statistiques, économétrie spécialité statistique publique" (ID: 47956)
- "Master International Big Data (pour étudiants internationaux)" (ID: 69543)

LANGUAGES

RECOMMENDED LANGUAGE SKILLS

Language 1: **French**
Level: B1*

Language 2: **English**
Level: B1

* Any certificate can be accepted, including certificates from home university in English attesting to the level of each nominated student

In order to follow courses adequately and perform in examinations, the minimum required level in French under the CEFR guidelines is B1. Students possessing this level upon arrival (especially those who stay an entire academic year) make significant progress during their period. However, ideal candidates should have a B2 "Vantage" level in French in both comprehension and expression.

LANGUAGE COURSES

For beginning French speakers:

- **Université d'été**

ENSAI exceptionally welcomes non- or beginning- French speakers as students, in cases where their scientific background is of a high calibre. These students register for a 2-month intensive summer language and culture program in Rennes during July and August, preceding the start of the academic year. This program is organized by the CMI and takes place at CIREFE, part of the University of Rennes 2 (accessible by bus + métro).

For students with a minimum B1 level in French:

In addition to a week of mandatory, intensive French courses during Orientation Week at ENSAI, students continue to improve their French language skills during the academic year through two methods:

- **Soutien linguistique**

Students follow additional hours of written and/or oral French language courses (one evening of 2 hr/week over 11 weeks for 2.5 ECTS) each semester. These courses take place off-site at CIREFE, part of the University of Rennes 2 (accessible by bus + métro).

- **Tandem Linguistic Exchange**

Students improve particularly their oral French skills during one or two semesters through a 20-hr. tandem partner learning program with a French student (10h in French + 10h in student's native, foreign language).



CITY OF RENNES CAPITAL OF BRITTANY



ENSAI is located on the Ker Lann Campus, near the cosmopolitan city of Rennes, France. A 2-hour train ride from Paris, Rennes is known for its numerous cultural events and festivals, as well as being a lively college city with two major universities plus a number of graduate schools. Rennes is the capital of Brittany, a region renowned for some of France's most spectacular coastline and landscapes. Brittany is continually ranked among the top places for living, working, and tourism in France.

- ⇒ Rennes Tourism Office Website: www.tourisme-rennes.com
- ⇒ "Rennes" on Wikipedia Website: <http://en.wikipedia.org/wiki/Rennes>
- ⇒ "Rennes" Wikitravel Site Website: <http://wikitravel.org/en/Rennes>



Place du Champ-Jacquet, Rennes

GETTING TO ENSAI ON THE KER LANN CAMPUS

Home to ENSAI and located just outside of Rennes, the green Ker Lann Campus was created in 1990 and now welcomes about one thousand students. This technology campus is home to institutions of higher education, professional training centers, and businesses. The aim of having a joint business and educational park is to encourage contact and partnerships between academia and the professional world. This location is ideally suited and offers pleasant working and living conditions with a wide range of facilities covering accommodation, catering, sporting activities and associations.



Ker Lann Campus

⇒ Website: www.campuskerlann.com

By car

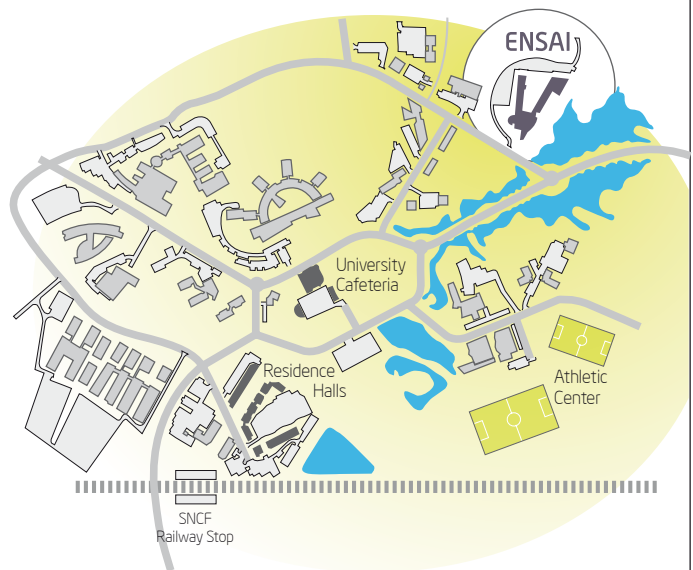
The campus is along the main Rennes-Redon road. From the Rennes ring road, take the D177 (Rennes-Redon road, direction: Saint-Jacques de la Lande). Exit: Parc des expositions - Campus de Ker Lann.

By bus

The campus is a mere 20-minute bus ride away with more than 30 departures per day from Rennes; it is served by the #57 or the Ker Lann Express, run by Star Rennes Métropole, the bus and métro service. Departure is from the "République Pré Botté" bus stop in Rennes, and ENSAI is located at the "Étangs" bus stop. Consult the complete timetable and bus route at www.star.fr.

By train

The campus is served by the Rennes-Messac/Guipry or the Rennes-Redon train lines. The SNCF "Ker Lann" railway stop allows for direct access from the Rennes trainstation to the campus in 10 minutes. Consult the complete timetable at www.ter-sncf.com, www.voyages-sncf.com.



École nationale
de la statistique
et de l'analyse
de l'information

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