

INSA

INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
ROUEN NORMANDIE

HUMAN SCALE, GLOBAL SCOPE

GENERAL
PRESENTATION

GRUPE
INSA

UNIVERSITÉ
DE ROUEN



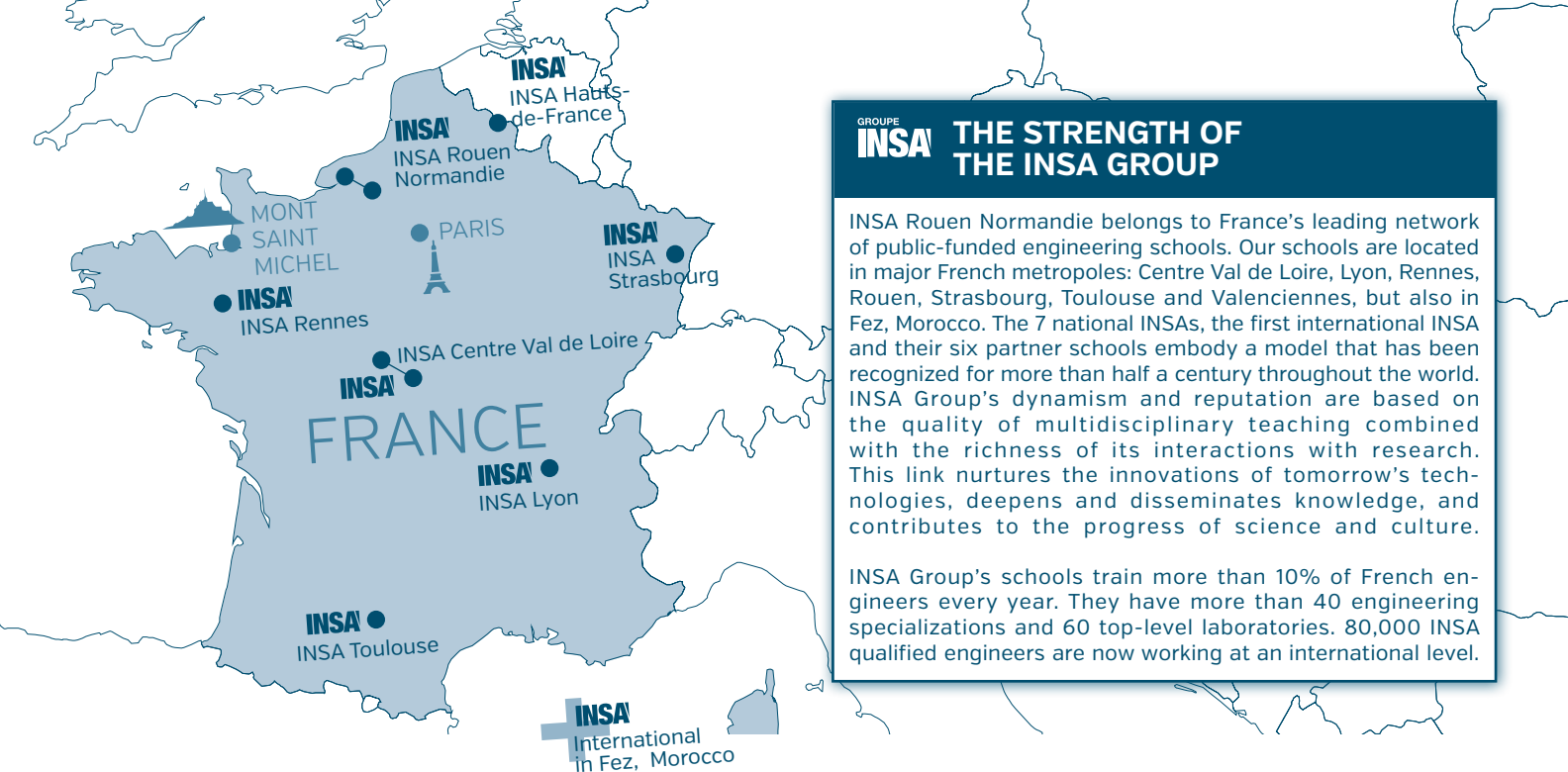
MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION



//
*A human potential
in engineering research
and studies* //



ENGLISH VERSION



GRUPE
INSA

THE STRENGTH OF THE INSA GROUP

INSA Rouen Normandie belongs to France's leading network of public-funded engineering schools. Our schools are located in major French metropolises: Centre Val de Loire, Lyon, Rennes, Rouen, Strasbourg, Toulouse and Valenciennes, but also in Fez, Morocco. The 7 national INSAs, the first international INSA and their six partner schools embody a model that has been recognized for more than half a century throughout the world. INSA Group's dynamism and reputation are based on the quality of multidisciplinary teaching combined with the richness of its interactions with research. This link nurtures the innovations of tomorrow's technologies, deepens and disseminates knowledge, and contributes to the progress of science and culture.

INSA Group's schools train more than 10% of French engineers every year. They have more than 40 engineering specializations and 60 top-level laboratories. 80,000 INSA qualified engineers are now working at an international level.

A SCHOOL RECOGNIZED FOR ITS ACADEMIC EXCELLENCE AND VALUES

INSA Rouen Normandie, the first engineering school in Normandie.

ACCREDITATION

The engineering degree commission [Commission des Titres d'Ingénieurs], an independent body responsible for assessing the quality of engineering studies, has recognized the quality of our diplomas by renewing the accreditation of our specialisations under student status for a maximum of 6 years. New apprenticeship studies also benefit from the maximum duration of 3 years. Our study programmes have also obtained the EUR-ACE label, the guarantee of a perfect match with European academic standards.

VALUES AND COMMITMENTS

Excellence, Diversity, Parity, Employability are the core values at INSA Rouen Normandie.

HUMAN SCALE, GLOBAL SCOPE

INSA Rouen Normandie [National Institute of Applied Sciences] holds a very strong position within the French higher education system of engineering schools. Its missions [teaching, research and the dissemination of scientific culture] revolve around four poles of expertise associated with an interdisciplinary theme: risk management.



INFORMATION SYSTEMS - MATHEMATICAL MODELLING AND SIMULATION - DIGITAL

Computing, Finance, Imaging and Artificial Intelligence in the 21st century.

The marriage of Computer Science and Mathematics represents a pole of competence in many areas such as Information Systems [from sensor to user], Finance or Multimedia Systems.



CHEMISTRY - HEALTH - PROCESS ENGINEERING - INDUSTRIAL ECOLOGY

A long tradition in Chemistry and Process engineering for a response adapted to today and tomorrow's world.

This division benefits from 90 years of experience in engineering studies and research dedicated to Organic Synthesis, Polymer Materials and Process Engineering. Its mission is to design, control and secure industrial systems that respect and protect the environment, to develop medicinal molecules, to develop more efficient polymers...



ENERGIES - PROPULSION - MECHANICS - MATERIALS

Engines, Combustion, current and

future Mechanical Systems.

This division is dedicated to Mechanics, Energy and Energy efficiency as well as Energy and Industrial Performance. It develops studies and research in the field of Energy Sciences and associated materials and their impacts [new systems applied to Propulsion, Depollution, Combustion / new materials for Energy, Nuclear, Bio-polymers, Eco-Materials, Clean Energy...].



CIVIL ENGINEERING - SUSTAINABLE CONSTRUCTION - URBAN PLANNING

A response to today's needs in the public and private sectors.

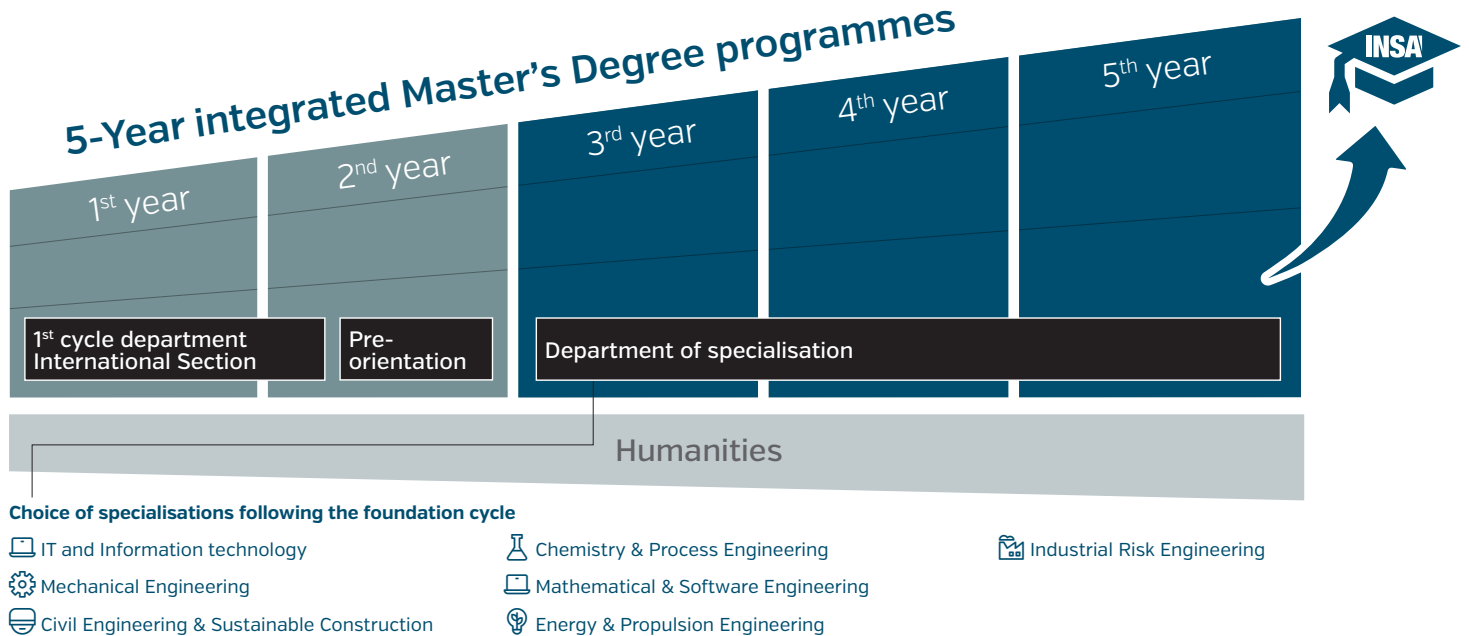
The objective of this fourth cluster is to systematically take into account environmental issues in all areas related to buildings and structures, while also integrating the constraints linked to land planning and urban planning. INSA Rouen Normandie has joined forces with the University of Le Havre and ESITC Caen.



THE CHOICE OF SUCCESS

INSA Rouen Normandie cultivates the diversity of profiles and relies on the personality of its future professionals. INSA engineers have high-level scientific and technological skills combined with intellectual virtues such as the ability to analyze and synthesize, react and advise. Their ability to manage and develop optimal working

methods, their capacity for adaptation and anticipation are combined with a sense of openness to complementary fields such as innovation, entrepreneurship or culture. The five years of studies offer a progressive and thoughtful orientation, allowing for awareness in project management and interculturality from the first year onward.



A WIDE CHOICE OF COURSES

International students have the opportunity to prepare for the INSA engineering degree by joining the International Bilingual Section (SIB) after their baccalaureate, after one year in higher education, or after a national or specialized Master's degree (M1).

GENERAL STUDIES - YEARS 1 AND 2

1. Classical section : Sciences and Techniques for Engineers (STPI) For French-speaking students only. [French C1 level].
2. International Bilingual Section (SIB)

Since 1999, international bilingual studies have been preparing future professionals for the requirements of mobility and working in international teams by providing teaching similar to the traditional section (the scientific programme and educational methods are identical to the classical section) but with a specific implementation since half of the classes are in English.

A 3-week « Welcome program » prepares students for their integration in the International Bilingual Section.

ENGINEERING CYCLE - YEARS 3-4-5

These courses are available at levels 3 and 4, in preparation for the INSA engineering degree or as part of an exchange for 1 or 2 semesters of study.

- IT and Information technology
- Chemistry & Process Engineering
- Energy and Propulsion Engineering
- Civil Engineering
- Mathematical Engineering
- Industrial Risk Management
- Mechanical Engineering

MASTER'S DEGREES

Access available in M2 (after an M1) or after a Bachelor's degree for the Master's in Design Engineering.

- Chemicals
- Energy
- Civil engineering
- Design engineering
- Engineering of Complex Systems (ESIGELEC)
- Mathematics and Applications
- Science and Data Engineering

DOCTORATE DEGREES - 3 CLUSTERS OF EXPERTISE - 8 LABORATORIES

INSA Rouen Normandie holds a very strong position within the French higher education system of engineering schools. Research themes stem from our three poles of expertise through a synergy between courses, research laboratories and the two Centers for Technological and Industrial Studies and Research (CERTI). They enable us to provide an open-ended response to the major challenges of knowledge and society.

INSA is delegated by Normandie-Université for the preparation of Doctorate degrees. The school is part of two doctoral schools:

- Normandy Doctoral School of Chemistry
- Doctoral School of Physics, Mathematics and Information Sciences for Engineers

KEY FIGURES

- 11 engineering courses
- 2 specialized master's degrees
- 7 research master's degrees
- 3 doctoral schools
- 30 theses defended per year
- 8 research laboratories
- a budget of 39 million euros
- 2000 students
- 335 graduates per year
- 480 teaching, research, administrative and technical staff
- 400 freelancers
- 110 PhD students
- 7 student residences

RESEARCH AND DEVELOPMENT - A DRIVING FORCE OF THE SCHOOL

With eight laboratories, including four joint CNRS research units, INSA Rouen Normandie actively contributes to the influence of scientific culture in Normandy, in France and throughout the world in close collaboration with the universities of Rouen, Le Havre and the Community of universities of Normandy.

INSA Rouen Normandie has a real desire to have an interdisciplinary approach in all sectors of activities such as Aeronautics and Space, Pharmaco-

logy, the Environment, Automotive engineering, Computer Science, etc. Studying these themes through a synergy between courses, research laboratories and the CERTI [Center for Technological and Industrial Studies and Research] allows us to provide an open answer to contemporary and future technological challenges.

INSA Rouen Normandie has also been recognized by international juries for future investments. The school is thus proving its ambition in terms of

research and support for economic development in the fields of Health [inventing new drug molecules] and Energy [developing materials for Energy and Clean Combustion].

Thanks to these investments for the future, INSA Rouen Normandie has been awarded several prizes, along with its partners.

INTERNATIONAL - "MADE IN FRANCE" ENGINEERING PROFESSIONALS

The school's reputation crosses the borders of Europe. Our 7000 INSA Rouen Normandie graduates working all over the world, or studying in American, European and Asian universities or companies, are recognized and sought after for their high level of engineering, their adaptability and managerial skills.

Every year, INSA Rouen Normandie welcomes 450 international students of 45 different nationalities out of a total enrolment of 2000 students. The International Bilingual Section [SIB], teaching several languages, more than 20 double diplomas or joint diplomas with Brazil, Germany, England, for example, internships and years of studies abroad are pillars of the education of future engineers.

INSA Rouen Normandie has been interacting with international partners from the sector of education, industry and research for 30 years and has established more than 150 partnerships with prestigious schools and universities around the world. INSA's curricula are part of the LMD programme [Licence, Master's, Doctorate], making it clear that it can be read internationally and increase its exchanges within the European network of universities.

«Welcome to France» label : INSA Rouen Normandie has joined the «Welcome to France» labeling process and obtained 2 stars in December 2009, certifying the quality of its welcome of international students

INSA
ROUEN NORMANDIE

Campus du Madrillet
685 Avenue de l'Université - BP 08
76 801 Saint-Étienne-du-Rouvray cedex
FRANCE

Tel.: +33 2 32 95 97 00
insa@insa-rouen.fr
www.insa-rouen.fr



COMPANIES AT THE HEART OF INSA ROUEN NORMANDIE

INSA Rouen Normandie's mission is to train, innovate and associate... all of these missions are recognized by our partner companies. They have made it possible to establish close and long-lasting collaborations with regional, national and international companies, major groups and SMEs in both education and research.

Private companies are not the only natural prospect for our students, but they are also educational partners that accompany them from the time they enter school to the day they graduate. During their five years of studies, our engineering students must complete at least three in-company internships. Every year, more than 900 INSA Rouen Normandie trainees work in French and international companies.

Companies are also involved in our courses, either as part of one-off interventions [seminars, conferences, visits, etc.], to propose industrial or R&D projects, to contribute to opening up new sectors or contribute to the evolution of the courses offered at INSA.

Some of our international partner companies

