

The logo for INSA Lyon, featuring the letters 'INSA' in a bold, red, sans-serif font, followed by a vertical bar and the word 'LYON' in a smaller, black, sans-serif font.

INSA

INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
LYON

The background of the entire page is a collage of images related to aerospace engineering. It includes a close-up of an aircraft engine fan, a person working on a computer, and two students in a laboratory setting. The overall color palette is dominated by shades of purple, pink, and white, with a grid pattern overlaid on the left side.

INTERNATIONAL **BACHELOR**

**IN MECHANICAL,
MATERIALS AND
AEROSPACE ENGINEERING**



INTERNATIONAL BACHELOR

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AN INNOVATIVE INTERNATIONAL PROGRAMME

INSA Lyon, one of France's top engineering universities is running **an International Bachelor's programme in Mechanical, Materials and Aerospace Engineering** in cooperation with ECAM Lyon and the University of Strathclyde (Glasgow, UK), one of Britain's leading technological universities.

This three-year course offers a unique opportunity to acquire a solid grounding in these highly-valued engineering fields, gain first-hand professional experience and develop a truly international profile.

All classes are taught exclusively in English by an international team of experienced lecturers and dedicated professionals. The programme is sponsored by SAFRAN, a high-technology group which is one of the world leaders in Aerospace applications.

Classes are tailored to solving real-world problems through engineering applications with emphasis being placed on team and extensive project work. Knowledge gained through course work is consolidated by mandatory internships in industry which form an integral part of the syllabus.

Students will spend a total of 5 semesters at INSA and ECAM, both located in Lyon, and one semester studying in the Mechanical and Aerospace Engineering department at the University of Strathclyde.

On completion of the International Bachelor's programme, students will be able to:

- Analyse real mechanical systems to identify their strengths, weaknesses and propose improvements
- Design and develop mechanical systems, particularly in the field of aeronautics
- Work via projects, autonomously and in teams within organisations
- Interact and cooperate with specialists in fields other than Mechanical Engineering
- Operate effectively in a multi-cultural environment using English and French
- Elaborate a professional and personal project.



COURSE STRUCTURE

• Year 1:

Fundamentals of Engineering covering Applied Mathematics, Mechanics, Materials, Electrical Engineering, Mechanical Design, Thermodynamics, Transversal Projects along with intensive French classes, other foreign languages or communication*. A one-month mandatory training period in industry in July or August.

• Year 2:

Fundamentals of Engineering including Applied Mathematics, Strength of Materials, Fluid Mechanics, Machine elements, Manufacturing and French/ Foreign Language/Communication*. Semester 4 taught at University of Strathclyde focusing on Aeronautics and introducing Professional and Business topics.

• Year 3:

Applications in Engineering with Applied Fluid Mechanics, Experiments & Numerical Simulations in Mechanics, Heat Transfer, Machine Elements, Transducers and Measurements, Control of Systems, Composite Materials and Business. Students will choose a final industrial project which may serve as a basis for a mandatory 4 month internship industry [April to July].

* depending on the student's level in French.



CAMPUS LIFE

Accommodation and catering facilities are provided on the INSA campus. Students are guaranteed a place in one of the halls of residence. The campus is also equipped with high-level sport facilities, a computer centre, scientific libraries and a medical centre. INSA Lyon has an extensive network of student-run clubs and associations affiliated to the Students' Union.

FEE STRUCTURE

- Application fee: 96 € (non-refundable)
- 6,000 € annual tuition fees regardless of country of origin, payable once admission is confirmed.

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HOW TO APPLY

Application deadline:

31st May, 2021

Admission results:

Early July 2021

Applicants must submit copies of their high-school diploma or predicted grades and school transcripts for the last three years, the results of an externally recognised English test if applicable and letters of recommendation from Maths and Physics teachers. No personal statement is required.

For further information,

• please go to www.insa-lyon.fr/ibeng

• or contact IBEng@insa-lyon.fr

ENTRY REQUIREMENTS

a) Language requirements:

No minimum French level required.

All students whose first language is not English must provide proof of English language proficiency at level C1 based on external recognised tests (TOEFL, IELTS, etc.)

b) Academic requirements:

Required subjects with minimum accepted grades for year 1 entry:

A-levels: grades AAB (Maths A, Physics A)

IB: 32 (Maths HL5 or Physics HL5)

French Baccalaureate S: (Maths: 13, Physics: 13)

USA: High School Diploma combined with strong SAT I and II scores and/or APs with grades at 4 or above

India: 75% in all subjects taken at level XII (Maths and Physics are required)

For other qualifications, please contact : IBEng@insa-lyon.fr

FURTHER STUDIES

The International Bachelor's programme in Mechanical, Materials and Aerospace Engineering enables students to enter the job market directly or to continue with further studies. On completion of their degree, students will be awarded 180 ECTS [European Credit Transfer System] credits which give access to a number of Master's Programmes. In particular, subject to their academic performance, students may transfer to i) the 3-year Cycle d'Ingénieur at INSA Lyon or ECAM to obtain a French Diplôme d'Ingénieur or, ii) register on the MSc programme at the Mechanical and Aerospace Department of the University of Strathclyde.





INSA LYON

INSA Lyon, founded in 1957, is a leading engineering university in Europe which offers top quality training to 5,200 students in 9 different engineering specialities. INSA Lyon is home for 22 research laboratories with more than 600 researchers and teachers, 650 PhD students and is involved in more than 1000 industrial contracts each year.

> www.insa-lyon.fr

ECAM LYON

ECAM Lyon is a top French graduate school of engineering founded on merit, scientific rigor and humanist values. For over 115 years, ECAM Lyon has provided a multi-disciplinary engineering programme in the tradition of "Arts et Métiers". ECAM Lyon combines a scientific & technical expertise with a social perspective.

> www.ecam.fr

UNIVERSITY OF STRATHCLYDE

Founded in 1796 and receiving its Royal Charter in 1964 as the UK's first technological university, the University of Strathclyde is a Scottish public research university located in the heart of Glasgow, United Kingdom. The university is highly ranked in the UK in various subjects and has a very strong reputation in Mechanical and Aerospace Engineering.

> www.strath.ac.uk

THE CITY OF LYON

With 1.2 million inhabitants, Lyon is the capital city of the Rhone Alps region and the second largest city in France after Paris. In 1998, Lyon received the UNESCO World Heritage Award because of the continuity of its urban settlement over more than two millennia, from Roman times to the present day without losing its distinctive Renaissance feel.

Lyon today is one of the most attractive cities in Europe, home to renowned international companies and major decision centres. It is also a gateway to the rest of the world with its international airport and the high-speed [2-hour] TGV train connection to the centre of Paris and Charles-de-Gaulle airport.

In 2020, the French magazine, L'Etudiant ranked Lyon as the second best city for students in France.

**INSA Lyon
International Bachelor
in Mechanical, Materials
and Aerospace Engineering**

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In partnership with

