

**INSA** | INSTITUT NATIONAL  
DES SCIENCES  
APPLIQUEES  
LYON



# **INTERNSHIPS AND SANDWICH COURSES**

## **GUIDE FOR BUSINESSES**

# INTERNSHIPS AND SANDWICH COURSES AT INSA LYON

Internships and sandwich courses are an integral part of every student engineering course. Your company therefore plays a key role in the education of these prospective engineers, and we are very grateful for your collaboration. Taking on a student from one of our institutes will give your company a responsible, socially aware engineer with recognized technical skills, who will fit seamlessly into the business and social environment.

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**INTERNSHIPS  
 SANDWICH  
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## Biosciences

**BIOCHEMISTRY and BIOTECHNOLOGY:** Analytical, physical, organic chemistry / Analytical, preparatory, structural biochemistry / Functional, metabolic biochemistry / Enzymology, enzymatic engineering / Animal, plant biology / Cellular, molecular biology, biological engineering / Genetics, genetic engineering / Immunology / Microbiology / Physiology / General, molecular pharmacology / Statistics applied to biology, mathematics applied to biology / Processes in biotechnology / Bioinformatics / Project management, management, quality.

**BIO-INFORMATICS and MODELLING:** Information technology / Software engineering / Data bases / Knowledge bases / Artificial intelligence / Algebra, digital analysis, differential systems / Applied statistics, mathematics / Modelling / Physical, organic chemistry / Cellular, molecular biology / Structural, dynamic biochemistry / Physiology / Immunology / Genomics, genometrics / Bio-informatics and structural biology / Transcriptomics / Proteomics / Population biology, modelling / Biochips and bioengineering / Ecosystem management / Project management / Ethics.

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
3th year engineering students	Optional internship	Between end of June and end of August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
4th year engineering students	Internship in France or abroad, with a company or a laboratory	3 months between May and August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
5th year engineering students	Internship in France or abroad, with a company or a laboratory	5 to 6 months between February and August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
5th year engineering students	Sponsored study contract "Deploying a LEAN process"	8 months from February to early October - ¼ of course time (i.e. 300 hours of study) - ¾ of internship	Submit your offer by email: <a href="mailto:lean@insa-lyon.fr">lean@insa-lyon.fr</a>

For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Civil Engineering and Urban Planning

Materials / Structures / Soils / Thermal science of buildings / Acoustics / Urban Water Management / Hydraulics / Urban planning

Final year options: Sustainable town planning and renewal / Buildings, comfort, environment / Infrastructure and major civil engineering projects

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
3rd or 4th year engineering students	Optional internship (at the end of the 3rd or 4th year)	8 weeks between late June and early September	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Industrial internship	20 to 26 weeks between February and end of August	<a href="#">Submit your offer via our online platform</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Tunnels and Underground Works	Professional in-company assignment	4 to 6 months from mid-March to mid-August	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Electrical Engineering

Electronics / Electronic power systems / Electrotechnics / Industrial information technology / Telecommunications / Discrete and continuous event systems automation.

**Final year options:** Electric energy conversion / Integrated production systems engineering / Integrated electronic systems / Telecommunications / Signal and Image processing.

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
4th year engineering students	Industrial internship	Minimum 25 weeks between September and January or February and July	<a href="#">Submit your offer via our online platform</a> And send to : <a href="mailto:ge-stages@insa-lyon.fr">ge-stages@insa-lyon.fr</a>
5th year engineering students	Final Year Project	30 weeks from 1st March to 31st August, full time	Submit your proposed topic to the Head of Internships and Final Year Project: <a href="mailto:xavier.brun@insa-lyon.fr">xavier.brun@insa-lyon.fr</a> <a href="mailto:ge-pfe@insa-lyon.fr">ge-pfe@insa-lyon.fr</a>
3rd, 4th and 5th year engineering students	Apprenticeship	Around 2,800 hours spent with the company (over 3 years)	<a href="mailto:pierre-jean.cottinet@insa-lyon.fr">pierre-jean.cottinet@insa-lyon.fr</a>
5th year engineering students	Sponsored study contract "Deploying a LEAN process"	8 months from February to early October - ¼ of course time (i.e. 300 hours of study) - ¾ of internship	Submit your offer by email: <a href="mailto:lean@insa-lyon.fr">lean@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Energy and Environmental Engineering

Fluid mechanics / Thermodynamics / Heat and mass transfers / Thermal & electric machines / Environmental engineering & Thermal science of buildings / Chemical engineering / Process engineering / Industrial environment / Environmental economics & management / Carbon footprint & LCA.

Fossil, renewable and nuclear fuels / Power networks / Energy markets.

**Final year options:** Ecotechnologies and Industrial and Territorial Ecology / Advanced Energy Engineering for Efficient Systems / Responsible Entrepreneurial Project Management

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
4th year engineering students	Introduction to Research and Development Internship conducted in university laboratory	Minimum 20 weeks between April and August	Submit your proposed topic to the Head of this Internship: <a href="mailto:maxime.roger@insa-lyon.fr">maxime.roger@insa-lyon.fr</a>
5th year engineering students	Industrial internship	Minimum 20 weeks between March and August	<a href="#">Submit your offer via our online platform</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Environment and Energy Eco-Efficiency Management	Professional In-Company Assignment	4 to 6 months from mid-March until end of August	Submit your proposed topic to the Head of this Postgraduate Course: <a href="mailto:belkacem.benadda@insa-lyon.fr">belkacem.benadda@insa-lyon.fr</a>
Students or professionals with 5 years of higher education: Franco-Chinese Postgraduate Course in International Environmental Management	Professional In-Company Assignment	6 months from May to October	<a href="#">Submit your offer via our online platform</a>
Students or professionals with 5 years of higher education: Franco-Chinese Postgraduate Course in Alternatives for Future Energy	Professional In-Company Assignment	6 months from end of April to end of October	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Industrial Engineering

Industrial engineering / Production and logistics / Operational excellence / Industry of the Future Industry 4.0 / Maintenance / Purchasing-Procurement / Project management / Supply chain / Systems analysis and management / Industrial information technology / Methods / Flow simulation / Decision support systems / CAPE / ERP / Information systems for businesses and industrial organisation / Quality / Business management and strategy / Lean Management (Professional Metallurgy Certificate).

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
4th year engineering students	Industrial internship	Minimum 16 weeks from April (end of academic courses) to August	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Final Year Project	Minimum 18 weeks from February (end of academic courses) to August	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Sponsored study contract "Deploying a LEAN process"	8 months from February to early October - ¼ of course time (i.e. 300 hours of study) - ¾ of internship	Submit your proposed topic by email: <a href="mailto:lean@insa-lyon.fr">lean@insa-lyon.fr</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Industrial Engineering (France and Morocco)	Professional In-Company Assignment	18 to 26 weeks from March to end of August	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Mechanical Engineering

Mechanical design / mechanical-dynamic-acoustic-mechatronic-automated systems / structural mechanics / finite elements / fluids and energy / materials science / metallic materials implementation / polymers and composites / tribology / CAD / CAMD / CAM etc.

**Simulations/Experience:** manage complex projects / introduce an exploratory cross-functional strategy / identify, develop, optimise and industrialise innovative solutions / respond to functional specifications / take the company culture on board / operate in a professional working environment.

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
3rd year engineering students	Industrial internship	2 months between July and August	<a href="#">Submit your offer via our online platform</a>
4th year engineering students	Industrial internship	2 months between July and August	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Engineering Research Project at the INSA Laboratory (industrial topic)	From September to January or February to June	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Industrial internship	5.5 to 6 months from August to January or from February to August	<a href="#">Submit your offer via our online platform</a>
3rd, 4th and 5th year engineering students - Mechanical Engineering/Product Design and Innovation (GMCIP) - Mechanical Engineering / Plastics Processes (GMPPA)	Apprenticeship	Around 2,800 hours spent with the company (over 3 years)	- GMCIP: <a href="mailto:stephane.raynaud@insa-lyon.fr">stephane.raynaud@insa-lyon.fr</a>  - GMPPA: <a href="mailto:khalid.lamnawar@insa-lyon.fr">khalid.lamnawar@insa-lyon.fr</a>
5th year engineering students	Sponsored study contract "Deploying a LEAN process"	8 months from February to early October - ¼ of course time (i.e. 300 hours of study) - ¾ of internship	Submit your proposed topic by email: <a href="mailto:lean@insa-lyon.fr">lean@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)



## Information Technology

Design / General / Project-based learning / Information systems / Software engineering / Networks / Internet / Intranet.

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
3rd year engineering students	Industrial internship	8 weeks between June and August	<a href="mailto:jerome.gelan@insa-lyon.fr">jerome.gelan@insa-lyon.fr</a>
4th year engineering students	Industrial internship	14 weeks between mid-May and August	<a href="mailto:laurence.lopez@insa-lyon.fr">laurence.lopez@insa-lyon.fr</a>
5th year engineering students	Final Year Project	18 weeks between February and August	<a href="mailto:marie.rosain@insa-lyon.fr">marie.rosain@insa-lyon.fr</a>
3rd, 4th and 5th year engineering students	Apprenticeship	Around 80 weeks spent with the company (over 3 years)	<a href="mailto:if-apprentissage@insa-lyon.fr">if-apprentissage@insa-lyon.fr</a>
5th year engineering students	Sponsored Study Contract	From September or October to end of August	<a href="mailto:youssef.amghar@insa-lyon.fr">youssef.amghar@insa-lyon.fr</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Information Technology: Information Systems / Telecommunications, Networks	Professional In-Company Assignment	4 to 6 months from mid-April to end of September	<a href="#">Submit your offer via our online platform</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Digital Cybersecurity	Professional In-Company Assignment	4 to 6 months from March to end of August	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Materials Science and Engineering

Physical measurements / Metals and alloys / Ceramics / Composites / Polymers / Semi-conductors / Electronic and microelectronic components / Microsensors / Lasers / Corrosion / Nanotechnologies / Biomaterials

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
4th year engineering students	Industrial internship	9 to 14 weeks between June and August	<a href="#">Submit your offer via our online platform</a>
5th year engineering students	Industrial internship	4 to 6 months from March to August	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Telecommunications

Networks / Communication systems / Information systems / Internet-intranet / Design / Integration / Innovation in communications service / Project based learning.

**Further study:** Company networks / Wireless communications / E-commerce / Voice-data-image networks/ Mobility / High speed networks and multimedia / Security and networks.

TARGET GROUP	FORMAT	TIMESCALE	CONTACT*
3rd year engineering students	Introduction to Research projects	Part-time from March to the end of May and full-time throughout June	Submit your proposed topic to the Chair of the Department: <a href="mailto:stephane.frenot@insa-lyon.fr">stephane.frenot@insa-lyon.fr</a>
4th year engineering students	Industrial internship	12 to 20 weeks between mid-April and August	<a href="mailto:izabel.karabedian@insa-lyon.fr">izabel.karabedian@insa-lyon.fr</a>
5th year engineering students	Industrial internship	5 to 6 months between February and August	<a href="mailto:stephanie.zeoli@insa-lyon.fr">stephanie.zeoli@insa-lyon.fr</a>
3rd, 4th and 5th year engineering students	Apprenticeship	Around 92 weeks spent with the company (over 3 years)	<a href="mailto:tc-apprentissage@insa-lyon.fr">tc-apprentissage@insa-lyon.fr</a>
5th year engineering students	Apprenticeship (in one year)	One year from September to end of August	<a href="mailto:tc-apprentissage@insa-lyon.fr">tc-apprentissage@insa-lyon.fr</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Digital Cybersecurity	Professional In-Company Assignment	4 to 6 months from March to end of August	<a href="mailto:dfc@insa-lyon.fr">dfc@insa-lyon.fr</a>
Students or professionals with 5 years of higher education: Postgraduate Course in Information Technology: Information Systems/ Telecommunications and Networks	Professional In-Company Assignment	4 to 6 months from mid-April to end of September	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## 1st/2nd year engineering students

SPECIALISATION	FORMAT	TIMESCALE	CONTACT
1st year engineering students (Preparatory Level)	Industry taster internship	1 month during the summer between year 1 and year 2	<a href="mailto:fimi-stage@insa-lyon.fr">fimi-stage@insa-lyon.fr</a>

## 3rd year engineering students (1st year of engineering programme)

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Biosciences	Optional internship	Between end of June and end of August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
Civil Engineering and Urban Planning	Optional internship	8 weeks between end of June and early September	<a href="#">Submit your offer via our online platform</a>
Mechanical Engineering	Industrial internship	2 months between July and August	<a href="#">Submit your offer via our online platform</a>
Information Technology	Industrial internship	8 weeks between June and August	<a href="mailto:jerome.gelan@insa-lyon.fr">jerome.gelan@insa-lyon.fr</a>
Telecommunications	Introduction to Research project	Part-time from March to the end of May and full-time throughout June.	Submit your proposed topic to the Chair of the Department: <a href="mailto:stephane.frenot@insa-lyon.fr">stephane.frenot@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## 4th year engineering students (2nd year of engineering programme)

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Biosciences	Internship in France or abroad, with a company or a laboratory	3 months between May and August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
Civil Engineering and Urban Planning	Optional internship	8 weeks between end of June and early September	<a href="#">Submit your offer via our online platform</a>
Electrical Engineering	Industrial internship	Minimum 25 weeks between September and January or February and August	<a href="#">Submit your offer via our online platform</a> and send to : <a href="mailto:ge-stages@insa-lyon.fr">ge-stages@insa-lyon.fr</a>
Energy and Environmental Engineering	Introduction to Research and Development Internship conducted in a university laboratory	Minimum 20 weeks between April and August	Submit your proposed topic to the Head of this Internship: <a href="mailto:maxime.roger@insa-lyon.fr">maxime.roger@insa-lyon.fr</a>
Industrial Engineering	Industrial internship	Minimum 16 weeks from April (end of academic courses) to August	<a href="#">Submit your offer via our online platform</a>
Mechanical Engineering	Industrial internship	2 months between July and August	<a href="#">Submit your offer via our online platform</a>
Information Technology	Industrial internship	14 weeks between mid-May and end of August	<a href="mailto:laurence.lopez@insa-lyon.fr">laurence.lopez@insa-lyon.fr</a>
Materials Science and Engineering	Industrial internship	9 to 14 weeks between June and August	<a href="#">Submit your offer via our online platform</a>
Telecommunications	Industrial internship	12 to 20 weeks between mid-April and August	<a href="mailto:izabel.karabedian@insa-lyon.fr">izabel.karabedian@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## 5th year engineering students (3rd year of engineering programme)

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Biosciences	Internship in France or abroad, with a company or a laboratory	5 to 6 months from February to August	<a href="mailto:sandrine.chevaleyre@insa-lyon.fr">sandrine.chevaleyre@insa-lyon.fr</a>
Civil Engineering and Urban Planning	Industrial internship	20 to 26 weeks between February and end of August	<a href="#">Submit your offer via our online platform</a>
Electrical Engineering	Final Year Project	30 weeks from 1st March to 31st August full time	Submit your proposed topic to the Head of Internships and Final Year Project: <a href="mailto:xavier.brun@insa-lyon.fr">xavier.brun@insa-lyon.fr</a> <a href="mailto:ge-pfe@insa-lyon.fr">ge-pfe@insa-lyon.fr</a>
Energy and Environmental Engineering	Industrial internship	Minimum 20 weeks between March and August	<a href="#">Submit your offer via our online platform</a>
Industrial Engineering	Final Year Project	Minimum 18 weeks from February (end of academic courses) to August	<a href="#">Submit your offer via our online platform</a>
Mechanical Engineering	Engineering Research Project at the INSA Laboratory (industrial topic)	From September to January or February to June	Submit your proposed topic to the Head of Engineering Research Project: <a href="mailto:lionel.soulhac@insa-lyon.fr">lionel.soulhac@insa-lyon.fr</a>
Mechanical Engineering	Industrial internship	5.5 to 6 months from August to January or from February to August	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)



**(Contd) 5th year engineering students (3rd year of engineering programme)**

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Information Technology	Final Year Project	18 weeks between February and August	<a href="mailto:marie.rosain@insa-lyon.fr">marie.rosain@insa-lyon.fr</a>
Materials Science and Engineering	Industrial internship	4 to 6 months from March to August	<a href="#">Submit your offer via our online platform</a>
Telecommunications	Industrial internship	5 to 6 months between February and August	<a href="mailto:stephanie.zeoli@insa-lyon.fr">stephanie.zeoli@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Engineering students on 3-year apprenticeship

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Electrical Engineering	Apprenticeship	Around 2800 hours spent with the company (over 3 years)	<a href="mailto:pierre-jean.cottinet@insa-lyon.fr">pierre-jean.cottinet@insa-lyon.fr</a>
Mechanical Engineering / Product Design and Innovation (GMCIP) Mechanical Engineering / Plastics Processes (GMPPA)	Apprenticeship	Around 2800 hours spent with the company (over 3 years)	- GMCIP: <a href="mailto:stephane.raynaud@insa-lyon.fr">stephane.raynaud@insa-lyon.fr</a> - GMPPA: <a href="mailto:khalid.lamnawar@insa-lyon.fr">khalid.lamnawar@insa-lyon.fr</a>
Information Technology	Apprenticeship	Around 80 weeks spent with the company (over 3 years)	<a href="mailto:if-apprentissage@insa-lyon.fr">if-apprentissage@insa-lyon.fr</a>
Telecommunications	Apprenticeship	Around 92 weeks spent with the company (over 3 years)	<a href="mailto:tc-apprentissage@insa-lyon.fr">tc-apprentissage@insa-lyon.fr</a>

## Engineering students on 1-year apprenticeship

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Telecommunications	Apprenticeship	One year from September to August	<a href="mailto:tc-apprentissage@insa-lyon.fr">tc-apprentissage@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)



## 5th year engineering students on a Sponsored Study Contract (3rd year of engineering programme)

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Biosciences Electrical Engineering Industrial Engineering Mechanical Engineering	Sponsored study contract "Deploying a LEAN process"	8 months from February - ¼ of course time (i.e. 300 hours of study) - ¾ of course time in internship	Submit your proposed topic by email: <a href="mailto:lean@insa-lyon.fr">lean@insa-lyon.fr</a>
Information Technology	Sponsored study contract	From September or October to end of August	<a href="mailto:youssef.amghar@insa-lyon.fr">youssef.amghar@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## Students and professionals following a Postgraduate Course

9 POSTGRADUATE COURSES\*: <https://www.insa-lyon.fr/fr/cycle-formation/mastere-specialise>

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
Postgraduate Course: Non-destructive Testing	Professional In-Company Assignment	18 to 26 weeks between February and end of July	<a href="#">Submit your offer via our online platform</a>
Postgraduate Course in Information Technology: Information Systems/ Telecommunications and Networks	Professional In-Company Assignment	4 to 6 months from mid-April to end of September	<a href="#">Submit your offer via our online platform</a>
Postgraduate Course: Digital Cybersecurity	Professional In-Company Assignment	4 to 6 months from March to end of August	<a href="mailto:dfc@insa-lyon.fr">dfc@insa-lyon.fr</a>
Postgraduate Course: Environment and Energy Eco-Efficiency Management	Professional In-Company Assignment	4 to 6 months from mid-March to end of August	Submit your proposed topic to the Head of this Postgraduate Course: <a href="mailto:belkacem.benadda@insa-lyon.fr">belkacem.benadda@insa-lyon.fr</a>
Postgraduate Course: Industrial Engineering (France and Morocco)	Professional In-Company Assignment	Between 18 and 26 weeks from March to end of August	<a href="#">Submit your offer via our online platform</a>
Postgraduate Course: Tunnels and Underground Works	Professional In-Company Assignment	4 to 6 months from mid-March to end of August	<a href="#">Submit your offer via our online platform</a>
Postgraduate Course: Technical Management of Live Performing Arts	Professional In-Company Assignment	6 months from March to August	<a href="#">Submit your offer via our online platform</a>
Franco-Chinese Postgraduate Course: International Environmental Management	Professional In-Company Assignment	6 months from May to October	<a href="#">Submit your offer via our online platform</a>
Franco-Chinese Postgraduate Course: Postgraduate Course in Alternatives for Future Energy	Professional In-Company Assignment	6 months from end of April to end of October	<a href="#">Submit your offer via our online platform</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## International Bachelor in Mechanical, Materials and Aerospace Engineering

INSA Lyon International Bachelor in Mechanical, Materials and Aerospace Engineering (IBMMAE) is a 3-year programme exclusively taught in English. The IBMMAE targets international students and implements interactive pedagogy focused on personal work and projects. From the first year, students specialize in Mechanical and Materials Science with applications in the aeronautics field. This programme is based on a close partnership with [ECAM Lyon](#) and the [University of Strathclyde](#) (Glasgow, UK) where all students spend one full semester. Over the 3 years, students have to solve real-world problems using their analytical and synthetic skills. They also have to carry out a final industrial project and to complete at least 22 weeks in companies via 2 internships. Non-French-speaking students receive intensive French language courses in order to be able to work in a French company.

SPECIALISATION	FORMAT	TIMESCALE	CONTACT*
1st year students	Operative Internship	1 month during the summer between year 1 and year 2	<a href="mailto:fimi-stage@insa-lyon.fr">fimi-stage@insa-lyon.fr</a>
3 <sup>rd</sup> year students	Industrial Internship	Minimum 18 weeks from early April	<a href="mailto:philippe.velex@insa-lyon.fr">philippe.velex@insa-lyon.fr</a>

\* For business sponsors and partners, a single point of contact: [carrieres@insa-lyon.fr](mailto:carrieres@insa-lyon.fr)

## GLOSSARY

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## ▷ Industry taster internship (formerly factory internship)

**Industry Taster Internship:** This internship involves taking part in the team execution of a project and thereby gaining experience in the working environment and watching an industry at work.

**Target group:** Engineering students reaching the end of their 1st year of Preparatory Level.

**Learning objectives:**

- Meet the challenges of working in a professional environment by taking part in the execution of a project
- Watch, listen and understand what people in various roles say and do within their various fields of vision
- Think about the value and difficulties of working in industry
- Discuss the human aspects of company life

**Dates:** During the summer holiday between year 1 and year 2

**Duration:** Minimum of 4 weeks

**Contact for submitting an offer:** Département Formation Initiale aux Métiers d'Ingénieurs  
+33 (0)4 72 43 83 87 or +33 (0)4 72 43 70 17 - [fimi-stage@insa-lyon.fr](mailto:fimi-stage@insa-lyon.fr)

**Special mentoring from engineers:** Volunteer engineers mentor the students during this first experience in the world of work. Before the internship, they conduct group presentations and after it they provide feedback (compulsory timetabled activity). They mark the students' reports and give them a score following a pre-established grid.

The best reports are entered for the "Friends of Université de Lyon Prize".

**Contact for engineers wishing to volunteer:**

Département Formation Initiale aux Métiers d'Ingénieurs: +33 (0)4 72 43 74 50

## ▷ Industrial internship

**Industrial internship** (internship at a company)

**Target group:** Students enrolled on the Engineering Programme (3rd, 4th and 5th year engineering students)

**Learning objectives:** This internship comprises a temporary period of experience in the professional environment during which the students acquire professional skills and put what they have learnt into practice, with a view to obtaining a qualification or diploma and supporting a successful entry into the world of work. The students are given one or more assignments that comply with the learning objectives set out by their teaching establishment and approved by the host organisation.

The programme is devised by the teaching establishment and the host organisation according to the student's general programme of study.

**Duration:** The duration and period of time vary according to the department and specialisation. See section on "department of specialisation".

## ▷ Final Year Project - Final Year Research Project

**The PFE/PFER** is a personal project conducted in a professional situation with the purpose of developing the students' independence, imagination, scientific rigour and sense of responsibility and teamwork spirit, whilst at the same time putting into practice the knowledge and skills acquired during their studies. Students are given a problem to solve by the company or laboratory concerned.

**Target group:** 5th year engineering students from the departments of Electrical Engineering, Industrial Engineering and Information Technology

**Objectives:** Prospective engineers must demonstrate their ability to analyse a situation and its problems, define the tasks required, prepare and follow a schedule, suggest, develop and implement solutions and achieve defined objectives and/or deliverables. It usually involves adopting a project manager stance with respect to dealing with the problem.

If the latter comprises a research or innovation component in addition to the engineering aspect, in agreement with or at the request of the company, this type of final year project, known as a final year research project (PFER), is conducted with support from one of the INSA's research laboratories in Lyon, which is a partner of the department of education. The laboratory will make its skills and expertise available to help find innovative solutions. Throughout the project, students are able to use the laboratory's equipment and resources, in compliance with a research support agreement signed by the company and the laboratory.

**Examples for the department of Industrial Engineering:** Analysis and (re)design of a product or process (manufacturing, management, etc.), improvement of a supply, production or distribution system, or of an information system, or development of decision support systems. If the host company is a services business (advice, consulting, etc.), "taking part in a customer project as consultant or auditor..." is not considered to be a suitable PFE topic. A problem requiring a solution must be identified (affecting either the service company itself or one of its customers) that can be dealt with in whole or in part within the framework of an assignment conducted for a customer.

## ▷ Research and Engineering Project

**The Research and Engineering Project** is generally conducted in special host structures within the department of Mechanical Engineering with respect to a contractual request from a company.

**Target group:** 5th year engineering students in the department of Mechanical Engineering.

**Objectives:** The PRI can be either highly industrial or highly research based. Students are supported by the laboratories, technical centre and services of the Mechanical Engineering department to ensure that all projects are well executed. The PRI is complete following defence of the thesis and a written report at the end of the semester.

**Duration:** it takes place during 1 university semester, either in the 1st semester for students specialising in Mechatronic Systems, Industrialisation Processes and Plastics and Composites, or in semester 2 for students specialising in Study and Design and Modelling and Experimentation.

## ▶ Invitation to Tender Project

For this one semester project, which is specific to the **Telecommunications specialisation**, a group of engineering students represents a company and replies to an invitation to tender based on real specifications concerning telecommunications systems.

**Contact:** [omar.gaouar@insa-lyon.fr](mailto:omar.gaouar@insa-lyon.fr)

## ▶ Innovation project

A one semester project specific to the **Telecommunications specialisation**.

**Objective:** To enable students in the department of Telecommunications to set up, monitor and present a project that they have carried out. Innovation projects are projects managed and conducted entirely by the project team, which determines the initial objective and turns it into a coherent offer that is presented at the end of the project. Part of the project can come from external companies.

The objective of Innovation Projects is for students to learn to innovate and manage projects.

**When:** First semester of year 5

**Duration:** One semester

**Contact:** [stephane.frenot@insa-lyon.fr](mailto:stephane.frenot@insa-lyon.fr)

## ▶ Apprenticeship

**Since 2009**, INSA Lyon has been committed to significantly increasing the number of top-quality study courses available via apprenticeships in 5 areas of study and delivering the same qualifications as traditional courses; apprentices undergo exactly the same process of academic assessment.

**Target group:** 2nd cycle engineering students studying

Mechanical Engineering / Plastics Processes, Mechanical Engineering / Product Design and Innovation, Electronic Engineering, Telecommunications (TCA), and Information Technology (IFA).

**Objectives:** The aim of the apprenticeship is for the engineering students to obtain qualifications from INSA Lyon by integrating them into the professional environment to a greater degree than through the type of internship available in the more traditional streams, and using appropriate teaching methods.

Apprenticeships take the form of sandwich courses here, enabling students to gradually find out about the engineering profession in an actual company.

Companies benefit from the scheme in two ways: they can recruit students before they have earned a degree, whilst meeting the legal requirement for 5% of their workforce to be apprentices (a quota that high technology groups can find difficult to achieve).

**Duration:** Three years of second cycle studies.

**Contact:** [df@insa-lyon.fr](mailto:df@insa-lyon.fr)

## ▶ Sponsored study contracts

Sponsored study contracts are offered by a number of departments.

- A sponsored study contract in Lean Management is offered to engineering students from four of INSA Lyon's departments, during the final year of their course.

**Target group:** 5th year engineering students from the departments of Biosciences, Electrical Engineering, Industrial Engineering and Mechanical Engineering

**Objectives:** The contract has been developed in partnership with METALLURGIE rhodanienne (now UIMM), with the objective of training Assistant Lean Project Managers and Lean Project Managers, within the framework of a sponsored study contract.

**Duration:** The course is organised as follows:  $\frac{1}{4}$  of course time – or 300 hours – spent studying,  $\frac{3}{4}$  of course time spent working in a company, for a total of 8 months.

**Contact:** [lean@insa-lyon.fr](mailto:lean@insa-lyon.fr)

- A sponsored study contract is also offered to engineering students in the Information Technology department, during the final year of their course.

**Contact:** [youssef.amghar@insa-lyon.fr](mailto:youssef.amghar@insa-lyon.fr)

## ▶ Professional In-Company Assignment

Professional in-company assignments are part of a **Postgraduate Course**. Specialised master's degrees are postgraduate courses lasting at least two semesters; they include theory classes and a personal company-based research project, and a professional thesis must be defended.

**Target group:** Engineering graduates, graduates of leading schools of management, graduates with other postgraduate qualifications or equivalent qualifications from foreign universities.

**Objectives:** This course includes a personal project conducted as an in-company assignment and leading to the defence of a professional thesis.

**Duration:** The minimum assignment duration is 4 months.

**Contact:** [dfc@insa-lyon.fr](mailto:dfc@insa-lyon.fr)



## ▶ Introduction to Research and Development Internship

Conducted in a university research laboratory frequently of national and even international renown.

**Target group:** 4th year engineering students (Energy and Environmental Engineering).

**Objectives:** The aim of this research-based stage of the course is to demonstrate the engineering student's ability to deal with a scientific problem, outside the educational framework, using their scientific and technical skills and to report on their work in English, both orally and in writing. Some Research internship's result in the work being published in an international journal.

**Duration:** Minimum 20 weeks between April and August

**Contact:** [maxime.roger@insa-lyon.fr](mailto:maxime.roger@insa-lyon.fr)

## ▶ Introduction to Research project

Projects intended to understand and apply the technical foundations of telecommunications, information technology and networks and obtain a first experience of project management.

**Target group:** 3rd year engineering students in the department of Telecommunications.

**Objectives:** Students work closely on their first high level project with research workers in the department's laboratories. Telecommunications project to simulate an ADSL line. Networks project to discover how systems and networks are interlinked. Information technology project to create a dynamic website.

**Duration:** Part-time from March to the end of May and full-time throughout June.

**Contact:** [stephane.frenot@insa-lyon.fr](mailto:stephane.frenot@insa-lyon.fr)