

ECAM LYON

# SCHOOL OF ENGINEERING



**ECAM LaSalle**

Knowledge and values for a creative society





# ECAM Lyon

## 118 years of experience in training highly qualified engineers


ECAM Lyon was created in 1900 in response to the demand from industrialists. This non-profit school was founded on a strong set of ethical and human values and committed to training young engineers to shape the world of tomorrow.

The school focuses on a multidisciplinary approach for research, teaching and problem-solving.

ECAM Lyon is fully recognized by the French Government as a French "Grande Ecole"; it is characterized by:

- ▶ **A rigorous admission process**
- ▶ **High standards of academic & personal excellence**  
French State recognition (CTI national board of accreditation for engineering degrees)
- ▶ **Comprehensive training:** solid theoretical basis along with concrete hands-on applications
- ▶ **Strong links with industry** and business, and capacity of adaptation and cooperation
- ▶ An outward looking tradition, **an international exposure**

ECAM Lyon engineering programs bring together both scientific and technical training, project management, business knowledge, linguistic abilities, international perspectives and a human dimension.

 **1,500**  
STUDENTS  
ON CAMPUS

**99%**  
OF STUDENTS EMPLOYED  
4 MONTHS AFTER  
GRADUATION

**12:1**  
STUDENT-FACULTY  
RATIO

 **100**  
DOUBLE DEGREE  
PROGRAMS

 **A FRENCH  
GRANDE  
ECOLE**

**7,200**  
ALUMNI

 **28%**  
OF STUDENTS START  
THEIR CAREER ABROAD

### CROSS-CURRICULAR EDUCATION AND RESEARCH

ECAM Lyon covers all engineering sciences. Its five departments promote transversality and innovation at the crossroads of disciplinary domains:

#### Energy

Electricity, thermodynamics, renewable energy, energetic performance, fluid mechanics

#### IT and Automation

Computer science, networks and cyber-security, automated and robotic methods, connected objects

#### Materials and Structures

Calculation and sizing of structures, innovative materials, solid mechanics

#### Industrial Management

Industrialization, supply chain, lean management, health & safety at work

#### Languages &

#### Interpersonal and professional development

Self-awareness, leadership and project management, ethical awareness and commitment, intercultural dynamics and languages

### RESEARCH WITH INDUSTRIAL PARTNERS

The LabEcam research laboratory is a member of the Carnot Institute Ingénierie@Lyon.

Main fields of research:

- ▶ Energetic behavior of mechanical transmissions
- ▶ Thermal machine regulation
- ▶ Thermochemical treatment, powder injection molding of charged polymers
- ▶ Lean Management

In 2009, ECAM Lyon created the first factory-school in France dedicated to Lean Management.

## Studying at ECAM Lyon

5-year combined undergraduate / graduate Engineering programs

- **ECAM Arts et Métiers:** General Engineering (Master's degree) - mostly in French
- **ECAM Engineering:** Electrical and Mechanical Engineering (Master's degree) + 5 concentrations (MSc):  
Robotics & IT / Energy Engineering / Engineering Design / Product design / Industrial & Supply Chain Management

FULLY  
TAUGHT  
IN  
UK

#### Part-time Master's programs

- Mechanical & Industrial Engineering
- Energy, Exploitation & Maintenance
- Wood Construction, Energy and Logistics

#### Advanced Master's

- Lean Management

#### Doctoral training



### INTERNATIONAL NETWORK

**13**  
LANGUAGES  
TAUGHT

**100%**  
INTERNATIONAL  
STUDENT MOBILITY

To encourage student mobility and develop the international outlook of its programs, ECAM Lyon works together with an extensive network of partners including other universities and institutes of technology worldwide.

ECAM Lyon is member of the **international network of LaSalle universities** - 1,500 institutions in 82 countries.

**80**  
PARTNER  
UNIVERSITIES  
Worldwide



The ECAM campus is located in the historical center, a UNESCO World Heritage site, & heart of the city

### INNOVATION WITH THE CORPORATE WORLD

Business leaders intervention on the campus, internships, technical services... ECAM Lyon's privileged contacts with the business community mean it is in an excellent position to detect new developments. Alongside its industrial partners, from small businesses to major groups, ECAM is constantly seeking innovative solutions; it explores emerging technologies and imagines the world of tomorrow.

#### ENTREPRENEURSHIP



ECAM Lyon fosters the creativity and determination of its student engineers, and encourages entrepreneurship with training courses, individual support for startup projects, entrepreneurial and investment clubs, Fablab, incubator, start-up events and more.

LYON,  
FRANCE

#1<sup>st</sup>  
UNIVERSITY  
CITY  
IN FRANCE

Between the Mediterranean sea and the ski resorts of the Alps, Lyon is a European crossroads with excellent access to international destinations. Lyon is one of Europe's most innovative and attractive cities (awarded '2016 Europe's Leading City Break Destination'):

- A thriving economic center with many international firms: Bayer, JTEKT, Lafarge, Sanofi, Volvo, Bluestars Silicones...
- France's 2nd-largest scientific hub with world-leading clusters: biotechnology, chemistry & environment, automotive, audio-visual/cinema/videogame, textile...
- A well-recognized high quality of life and a rich fabric of cultural activities with more than 9,200 associations that further strengthen the appeal of the city
- France's best university city 2017 and most liveable city 2017 (29<sup>th</sup> worldwide)

France is the 3<sup>rd</sup> most attractive country for international students. Among the 150,000 students in Lyon, 12% are foreign students.



### A VIBRANT CAMPUS LIFE IN AN EXCEPTIONAL ENVIRONMENT

At the heart of the 2<sup>nd</sup> largest student city in France (after Paris), the ECAM Lyon campus is lively, open, energising and just the right size. The 20 acre park is laid out with student residence halls and amenities, places to socialise, a sports hall, a library, classroom and laboratory buildings and technological hubs: a place for living and working that favors the success and fulfilment of each student. Numerous student clubs organize a wide range of cultural, artistic, social, technical, and sports activities.



# What makes French engineering education internationally renowned?

- **Common core scientific knowledge;** students learn to be analytical and pro-active.
- **Strong understanding of multi-disciplinary engineering sciences;** engineering graduates are effective at adapting to the changing demands of the market.
- **Business culture** and understanding of the economic, social and ethical environments, and aptitude for management acquired through internships – essential skills for engineering graduates, future managers and leaders



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