

HIGH-END TECHNOLOGY RESEARCH CLUSTERS

- > rotating machines
- > tribology - surfaces and interacting surfaces
- > materials and processes
- > acoustics and vibration study
- > heavy-duty engineering - uncertainty and reliability analysis
- > environment - energy
- > bioengineering

Working in a synergy with AXEL'ONE, CLYM, PROVADEMSE, COATING EXPERT, these research clusters also work with other Carnot laboratories, in order to design specific offers targeting SME/SMI in **Aeronautics, Automotive industry, Manufacturing, Fashion and Luxury industries**

13 LABORATORIES 1 INDUSTRIAL & TECHNICAL CENTER

AMPÈRE Electric energy, Bioengineering, Systems engineering

C2P2 Chemistry, Catalysis, Polymers and Processes

CETHIL Energy and Thermal Research

IMP Polymer Materials Engineering

IPC CTI Plastics and Composites

LAGEP Automation, Process engineering

LaMCoS Mechanics, Contacts and Structures

LabECAM Efficiency energy and Materials

LGEF Electrical Engineering and Ferroelectricity

LMFA Fluids mechanics, Acoustics

LMI Multi materials and Interfaces

LTDS Tribology and Systems Dynamics

LVA Vibrations and Acoustics

MATEIS Materials, Engineering and Science



Public research for growth and economic dynamics

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DARE TO INNOVATE
Ingénierie@Lyon



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INNOVATIVE MATERIALS AND PROCESSES |
SMART MACHINES | FROM DESIGN TO USE

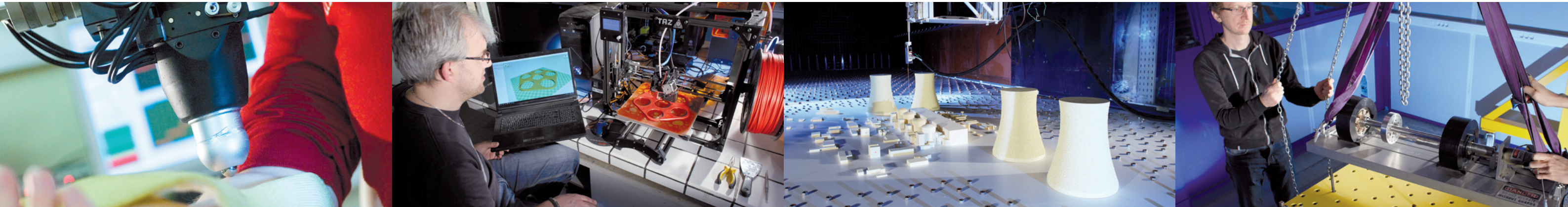


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Carnot Institute is acknowledged for its high-end technology research and industrial expertise. It is committed to support transports of low environmental impact, green energies and innovative devices in the Health sector.

AN ORIGINAL OFFER TO INNOVATE

and ensure your technological advance : historical scientific and technological expertise will tailor your future products and services.



EXCELLENCE
ACCESSIBILITY
DILIGENCE
TRUST

Ingénierie@Lyon supports all companies, from SME's to major groups, and give them access to internationally-acclaimed expertise clusters and high-end facilities.

INDUSTRIAL USES :

TRANSPORTS

Motorization systems, propulsion, flux, lighter-weight materials, security, smart systems, environmental impact

ENERGIES

Optimization, energy management, energy conversion, storage, environmental impact

HEALTH DEVICES

MedTech, computer-based procedure, biomaterials, diagnostic tools, sports and wellness devices

MATERIALS

Metals, composite materials, polymers, ceramics, bio-based materials, smart, architected, multifunctional, recyclable materials

Ingénierie@Lyon :

13 laboratories, 1 industrial technology center
1 transfer network, small and medium spin-off companies emerged from academic research

+ 460 permanent and temporary research scientists

+ 750 doctoral and 100 post-doctoral researchers

+ 860 publications in A-ranked scientific journals

+ 300 partenered companies, among which 1/3 are small and medium businesses

+ 50 registered patents per year

+ 15 M€ industrial incomes, with consistent growth

Ingénierie@Lyon provides highly qualified partner-oriented research :

BROAD RANGE OF COMPETENCIES

HIGH-END EQUIPMENTS

PROFESSIONALISM IN INTERACTIONS

> research focused on fundamental stages of innovative engineering, up to **component validation and/or laboratory model**

> national and European **project set-up**

> **collaborative laboratories**, industrial, teaching and research **chairs**

> **staging and testing** of technological consolidation

> individualized **continuous training**

> **ability to listen** and analyse your needs, scientific strategy **consulting**, **customized answer** to specific and **cross-disciplinary requests**, confidentiality

> **cooperative**, fast and efficient management of your research contracts thanks to our **affiliate units**

> right to **research tax credit**

> straightforward and balanced industrial **property rights**

> clear, responsive and ongoing **support**

> shared culture, langage, **common** interests



Ingénierie@Lyon is part of the **institut Carnot** label network. This label is awarded to public research organisations whose upstream research activities, focused on improving scientific and technological skills, go hand in hand with a proactive policy in partner-based research targeted towards socio-economic actors.

