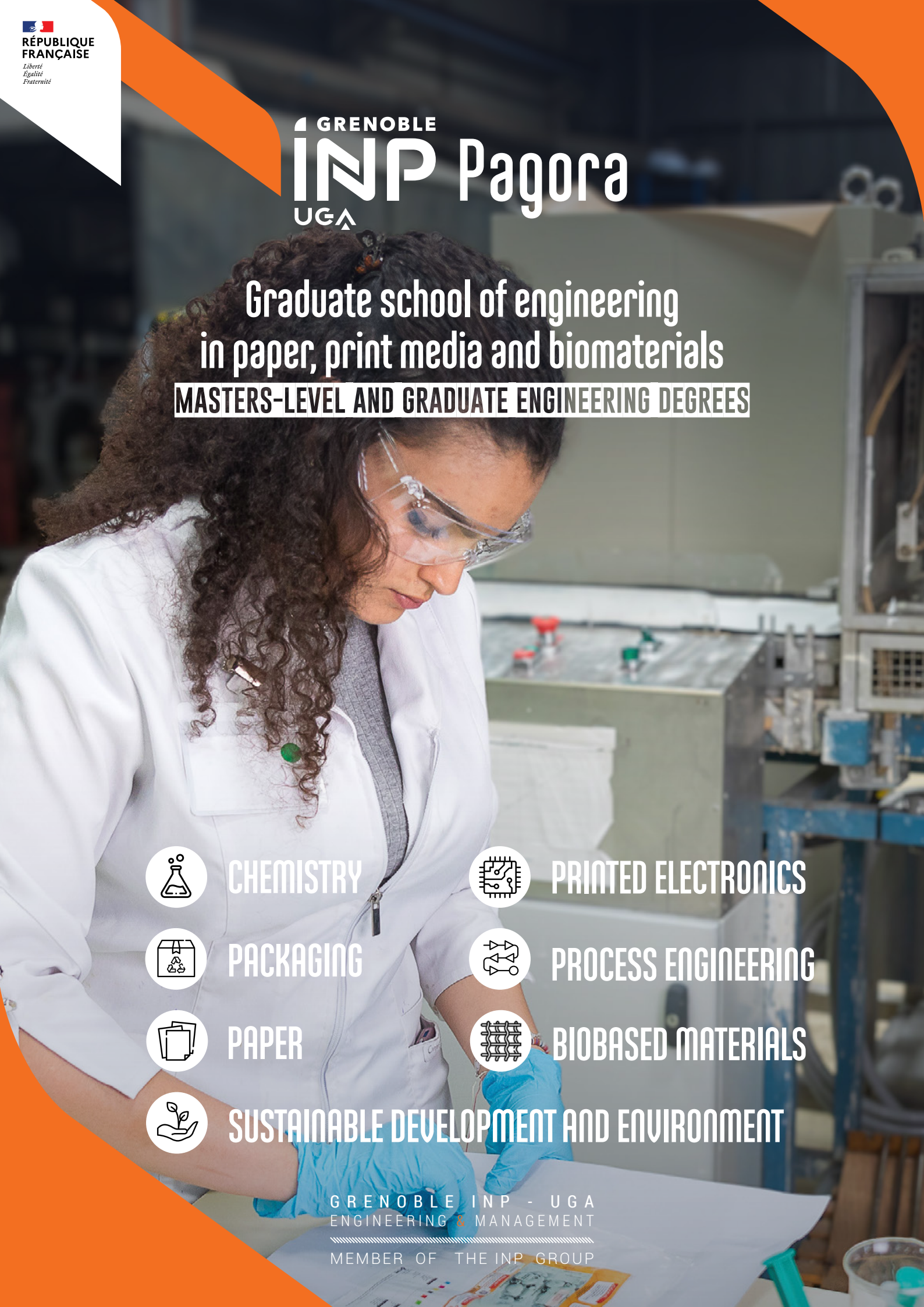
RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

GRENOBLE INP UGA Pagora

Graduate school of engineering in paper, print media and biomaterials

MASTERS-LEVEL AND GRADUATE ENGINEERING DEGREES



- CHEMISTRY
- PRINTED ELECTRONICS
- PACKAGING
- PROCESS ENGINEERING
- PAPER
- BIOBASED MATERIALS
- SUSTAINABLE DEVELOPMENT AND ENVIRONMENT

GRENOBLE INP - UGA
ENGINEERING & MANAGEMENT

MEMBER OF THE INP GROUP


UGA
Université
Grenoble Alpes


GROUPE
INP


Cti
Commission des
Titres d'Ingénieur


European
Accreditation
of Engineering
Programmes
EUR-ACE®


afaq
ISO 9001
Qualité
AFNOR CERTIFICATION
afaq
ISO 14001
Environnement
AFNOR CERTIFICATION
afaq
ISO 45001
Santé Sécurité
au Travail
AFNOR CERTIFICATION


opco
2i
COMPÉTENCES
INDUSTRIES


La Région
Auvergne-Rhône-Alpes


CFA
Agefpi

5 REASONS TO COME TO GRENOBLE INP-PAGORA, UGA

GRENOBLE INP UGA

Graduate schools of engineering and management

8 schools in Grenoble and Valence

Université Grenoble Alpes

Materials, biobased materials and processes • Energy & environment • Geomaterials & civil engineering • Micro & nano technology • Digital technology & applications Industrial engineering • Management & organization

8 graduate schools of engineering and management
Grenoble IAE - INP, UGA
Grenoble INP - Ense³, UGA
Grenoble INP - Ensimag, UGA
Grenoble INP - Esisar, UGA
Grenoble INP - Génie industriel, UGA
Grenoble INP - Pagora, UGA
Grenoble INP - Phelma, UGA
Polytech Grenoble - INP, UGA

2 engineering preparatory courses
La Prépa des INP (INP Group)
PeiP (Polytech group)

1 partner school
SeaTech

1 Professional Development Department

GROUPE INP | Member of INP Group
30+ graduate schools of engineering

8,350 students

73,000 graduates since the schools were founded

38 laboratories

21 technology platforms and fab labs

465 partner companies, of which 120 are involved in the governance of Grenoble INP - UGA

25 industrial chairs

1 foundation
Grenoble INP Foundation

1 technology transfer subsidiary
Grenoble INP Entreprise

E D U C A T I O N

R E S E A R C H

B U S I N E S S

GRENOBLE INP Pagora
UGA

International School of Paper, Print Media and Biomaterials

Grenoble INP – Pagora, UGA is a state-funded graduate school of engineering specialising in the fields of fiber, biobased materials, paper and print media. It offers masters-level and apprenticeship-based engineering training. The school is focused on the various components of the circular economy and trains future professionals to meet the environmental challenges facing our society.

Located at the gateway to the French Alps, Grenoble INP - Pagora is a school of Grenoble INP, Institute of Engineering and Management, Grenoble Alpes University.

200 students come from around France and more than 10 countries every year

3 certified diplomas (1 graduate engineering course and 2 masters courses)

95 % of engineering graduates secure a job within 6 months of graduating

240+ partner companies

Grenoble INP - Pagora is the only graduate school of engineering in France to be Quality, Safety and Environment certification.
ISO 9001 – ISO 45001 – ISO 14001

71%

OF PAPER AND CARDBOARD IN EUROPE IS RECYCLED

79% becomes paper or cardboard packaging.

13% is used for the production of newspapers, magazines, etc.

8% is made into other products such as sanitary paper or insulating materials.

Source : CEPI, 2021

With a committed focus on sustainable development, the circular economy and plant-based chemistry, Grenoble INP - Pagora trains future professionals in sectors related to plant fibers, biobased materials (paper, composites, biopolymers), packaging, printing and recycling.

With their specialist skills and unique expertise, Grenoble INP - Pagora graduates contribute to the development of new materials, products and industrial processes with a reduced environmental impact.

Paper and cardboard are quintessential biomaterials **produced either through their own recycling or from wood that cannot be used in other industries**. Once processed and printed, they have a **wide range of everyday applications**, from packaging and sanitary paper, to banknotes and books.

Made primarily from natural components, paper and cardboard are becoming an alternative to petroleum-based plastics, thanks to new properties such as moisture, grease and air resistance.

INNOVATIVE AND SUSTAINABLE SECTORS

BIOBASED MATERIALS AND BIOPRODUCTS

Today, in addition to paper and cardboard, **recyclable and renewable plant fibers** are used to manufacture new products such as **biobased materials and chemical components of plant origin**, using cutting-edge industrial processes.

SURFACE FUNCTIONALIZATION THROUGH PRINTING PROCESSES

Alongside conventional printing on paper, plastic, textile or composite substrates, the development of **advanced surface deposition processes and the formulation of complex fluids** (UV inks, conductive inks, transparent inks, etc.) today **allows various products and objects to be equipped with new properties and functionalities** (printed electronics, chemical reagents, RFID antennas, etc.).

Grenoble INP - Pagora and the LGP2 laboratory are "Quality, Safety and Environment" certified (ISO 9001, ISO 45001 and ISO 14001). The organization strives to increase the satisfaction of users and partners, as well as to control and reduce the risks and environmental impact of their activities. Grenoble INP - Pagora is the only graduate school of engineering in France to hold this triple certification. This certification is essential to the sustainable development of the school and the laboratory, in line with the school's areas of focus and its ambition to train socially responsible graduates.

One of Grenoble INP's 8 graduate engineering and management schools, Grenoble INP - Pagora benefits from the infrastructure and research platforms of Grenoble Alpes University and Grenoble INP - UGA, as well as numerous local, national and international partnerships.

GRENOBLE, FRANCE'S 5TH LARGEST STUDENT CITY

As part of **one of France's most active research eco-systems**, with over 8,300 students, 500 professors and 38 laboratories, Grenoble INP - UGA **ranks among the world's top 100 universities in the field of engineering and technology**.

EXCELLENCE INNOVATION RESEARCH

GRENOBLE INP - UGA: A WORLD-RENOWNED INSTITUTE

A TOP 100 UNIVERSITY IN THE WORLD IN 2023 FOR:

- ENGINEERING AND TECHNOLOGY
- NATURAL SCIENCES
- MATERIALS SCIENCES

A SCHOOL LOCATED ON A TOP-RATED UNIVERSITY CAMPUS

Specializing in biobased materials, fiber-based materials, paper and print media, Grenoble INP - Pagora is **the only school in Europe offering graduate engineering and master's courses covering the entire value chain**, from the production of paper pulp to **specific, high value-added printing processes on a wide range of substrates**, as well as the valorization of plant biomass **to produce biodegradable and recyclable materials**.

FRIENDLY CAMPUS
RARE SKILLS
UNIQUE COURSES

TECHNICAL SKILLS

MANUFACTURING PROCESSES FOR PAPER, CARDBOARD AND BIOBASED MATERIALS

PLANT BIOMASS CONVERSION PROCESSES (BIOPRODUCTS)

GRAPHIC CHAIN, PRINTING PROCESSES, INK AND COLOR MANAGEMENT

QUALITY, SAFETY AND ENVIRONMENTAL POLICIES

SUSTAINABLE MANAGEMENT OF ENERGY, RAW MATERIALS AND WATER

SOCIAL / HUMAN SKILLS

TEAM AND PROJECT MANAGEMENT

ABILITY TO WORK IN AN INTERNATIONAL ENVIRONMENT

MASTERS
SUSTAINABLE PRINTED AND INTEGRATED ELECTRONICS

1-year training program for future professionals in the field of printed electronics (adding functionalities to objects using innovative printing processes).

MASTERS
BIOREFINERY AND BIOMATERIALS

1-year training course for future professionals focusing on the challenges involved in valorizing plant biomass (transformation into biomaterials, chemicals or energy sources).

MASTERS DEGREE IN ENGINEERING
PAPER SCIENCE, PRINT MEDIA AND BIOMATERIALS

3 years of scientific and technical training, leading to an engineering diploma, with a choice of **2 specializations: Fiber and Biomaterials Engineering or Print Media Engineering**. This diploma, which can be taken as an initial degree or an apprenticeship-based degree, also **enables students to develop skills in economics, business management and aspects of social responsibility and sustainable development**.

A RESEARCH UNIT AT THE HEART OF THE SCHOOL

lgp2.grenoble-inp.fr

The school has its own research center, the Laboratory of Process Engineering for Biorefinery, Biobased Materials and Functional Printing (LGP2), with nearly 60 French and international researchers and PhD students. The LGP2 laboratory conducts research into nanocellulose, the valorization of plant biomass, printing processes for surface functionalization and process optimization. Thanks to strong synergies between the school and the laboratory, the results of this research contribute to the quality of the training provided to engineering and masters students.

3 RESEARCH GROUPS WITH UNIQUE AREAS OF EXPERTISE

Biorefinery: chemistry and ecoprocesses

– Cellulose, hemicelluloses and lignin: biorefinery and bioproducts
– Extraction and characterization of biomass constituents

Multi-scale biobased materials

– Biomass-based compounds
– Development of polymers, composites and fibrous materials

Surface functionalization through printing processes

– Complex fluids and inks
– Printing processes for functional systems

2 TO 3 PATENTS PER YEAR

60 PUBLICATIONS PER YEAR

10 PHD THESES PER YEAR

2 RESEARCHERS AFFILIATED TO THE *INSTITUT UNIVERSITAIRE DE FRANCE*

Cellulose Valley
BY FONDATION GRENOBLE INP

CHAIR OF EXCELLENCE

Launched in 2022 by the Grenoble INP Foundation, supported by industrial partners and hosted by the LGP2 laboratory and Grenoble INP - Pagora, the Cellulose Valley Chair of Excellence aims to propose new solutions for high-performance cellulose-based packaging, better for the environment.

COLLABORATIVE RESEARCH

TRUSTEES

GRENOBLE INP UGA

cnrs

agefpi

NETWORK MEMBER

INSTITUT CARNOT PolyNat

tec21 the engineering of complexity

BIOECONOMY FOR CHANGE

European and French state-funded projects and numerous direct industrial partnerships

STRONG TIES WITH COMPANIES

Founded in 1907 by a group of paper manufacturers, the school has always maintained strong ties with industry. Focusing on the challenges of innovation and sustainable development, it has specialized in the fields of print media, packaging and biobased materials, while developing partnerships with companies in all sectors. Today, students benefit from these strong synergies between training and industry, which allow them to enrich their skills through projects in France and abroad.

INTERNSHIPS

ENGINEERING PROGRAM

9 MONTHS MINIMUM OVER 3 YEARS

Internships allow students to learn about the challenges of working in a factory, to better understand an engineer's role and to manage large-scale projects.

1-YEAR MASTERS DEGREE

6-MONTH INTERNSHIP IN FRANCE OR ABROAD

Final-year internship in a company or laboratory to apply the knowledge acquired during the masters degree in a professional context.

PROJECTS

PAGORA STUDENT TEAM CHALLENGE – ENGINEERING PROGRAM

Design and production of demonstrators/ prototypes of objects or structures using biomaterials, paper and cardboard.

FINAL-YEAR PROJECT – ENGINEERING AND MASTER PROGRAMS

Carried out under the supervision of a specialist lecturer-researcher, on a high-level technical, industrial or scientific subject, in a company or laboratory.

AHLSTROM · ALBÉA · HINOJOSA · DS Smith · Smurfit Kappa · SWM · essity · LA ROCHETTE CARTONBOARD · Allimand · FEDRIGONI PAPER · Oberthur Fiduciaire · NALCO Water An Ecolab Company

240 + PARTNER COMPANIES

TESTIMONIES FROM INTERNS AND APPRENTICES ON OUR ENGINEERING AND MASTERS COURSES

Justine | Engineering program
EUROPAFI | Apprentice

I chose to follow the apprenticeship-based program at Grenoble INP - Pagora because it gave me the chance to put into practice the concepts I learned during classes. Also, if there are any concepts I don't understand, I can always work on them during my stints at the company.

I think the main advantages of this apprenticeship-based program are the opportunity to work in real-life situations and to get acquainted with the industrial world. It helps me to mature, grow and be more resourceful both at work and at school.

As an apprentice, my mission was to characterize cotton fibres. It was up to me to define how I would carry out the project and the partners I would work with, which was very motivating.

Peter | Masters program
LGP2 | Intern

I chose to seek an internship at LGP2 after realizing how unique it is to have a whole laboratory dedicated to innovation in biobased materials and biorefinery, as well as considering LGP2's high degree of collaboration with industry partners and other research centers.

My project aims to improve the surface, strength, and barrier functionality of 3D molded cellulose fiber objects, which will play a vital role in reducing plastic waste from packaging and single-use containers. Day-to-day, my work is a mix of hands-on experiments producing and characterizing molded fiber objects, analysis and organization of findings to shape the direction of future research, and collaborative meetings with other researchers in the lab. I really enjoy the discussions with fellow researchers that happen all the time at LGP2, whether planned or spontaneous.

Throughout this internship I've continued to learn about cellulose chemistry, molding processes, and analytical techniques. All these experiences will be valuable as I continue my career in biobased materials R&D.

ALUMNI NETWORKS

GRENOBLE INP ALUMNI

Grenoble INP Alumni is the graduate association of Grenoble INP - UGA schools. It offers a range of services to help graduates find employment and to maintain links between Grenoble INP graduates in France and around the world.

1 DATABASE OF GRADUATES
1 LIFETIME E-MAIL ADDRESS
10,000+ JOB OFFERS

40,000 GRADUATES

One of the world's largest networks of engineers

REGIONAL AND INTERNATIONAL GROUPS

THE GRENOBLE INP - PAGORA ALUMNI ASSOCIATION: LA CELLULOSE

La Cellulose, the Grenoble INP - Pagora alumni association founded in 1909, is charged with maintaining and developing links between graduates, helping them find employment and supporting them in their professional careers.

1 DATABASE OF GRADUATES

lacellulose.fr

NOTES

GRENOBLE INP Pagora
UGA

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38402 Saint-Martin-d'Hères Cedex
France

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pagora.contact@grenoble-inp.fr

GROUPE INP

Cti Commission des Titres d'Ingénieur

GRENOBLE INP - UGA
ENGINEERING & MANAGEMENT

MEMBER OF THE INP GROUP

TRAIN
High-speed train: direct from Paris (3 h, daily services) or Lyon (1 h 15, daily services)

PLANE
Shuttle buses from Geneva, Grenoble and Lyon Saint-Exupéry airports

PUBLIC TRANSPORT
Tramway B (direct from train station) / C, Bibliothèques Universitaires stop

Bus C7, Epicea stop

BICYCLE
Slots in front of the school
Mvélo+ offers short- and long-term bicycle rentals.
Agencies at Grenoble train station and on Campus.

BY CAR
Free parking in front of the school
- 1 h from Lyon
- 1 h 30 from Geneva
- 2 h from Turin
- 2 h 30 from Marseille

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