



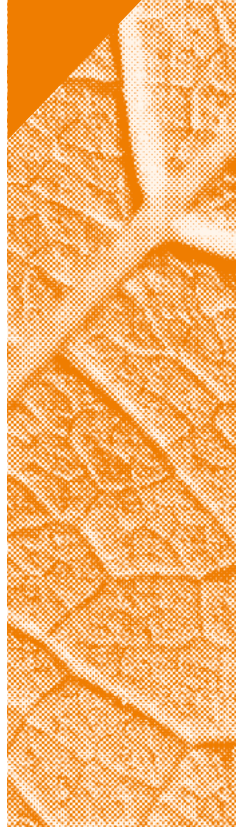
IMT Mines Albi
École Mines-Télécom



**RÉPUBLIQUE
FRANÇAISE**
*Liberté
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ANNUAL REPORT



2024

IMT Mines Albi

A SCHOOL CONNECTING SCIENCE WITH PEOPLE FOR AN AGILE AND SUSTAINABLE SOCIETY

IMT Mines Albi is under the authority of the French Ministry for the Economy, Finance, and Industrial & Digital Sovereignty and is **part of Institut Mines-Télécom, a French federal institute of technological universities of science and management.**

Positioned at the forefront of industrial and academic issues both in France and internationally, the school drives scientific and economic progress by integrating its four missions into an innovative virtuous circle:

• Training committed engineers

IMT Mines Albi trains general engineers to lead major transitions and promote responsible and committed engineering.

• Cutting-edge research and innovation

Via its cutting-edge scientific research, the school contributes to innovation and improving industrial products and processes.

It supports sustainable reindustrialization of the economy and transforms this progress into practical solutions at its three training and research centers:

- CGI (Centre Génie Industriel, Industrial Engineering Center)
- The Albi site of Institut Clément Ader UMR CNRS 5312 (ICA-A)
- RAPSODEE UMR CNRS 5302

• Local and national economic development

IMT Mines Albi, as a strategic business partner, supports new industrial dynamics, stimulates innovation, and encourages entrepreneurship. By promoting business creation, it actively contributes to economic development, both locally and nationally.

• Dissemination of scientific and technical culture

The school is committed to promoting scientific, technical and innovation culture nationwide, increasing understanding and assimilation of these issues by the widest possible audience.

Four scientific expertise fields

The school has chosen to specialize in four areas of expertise, in harmony with its environment and the strategic themes of the ecological, digital and industrial transitions for a more responsible world:

- ▲ **Materials and processes for aeronautics and space**
- ▲ **Powders, health, and nutrition**
- ▲ **Renewable energies, biomass, waste, and eco-activities**
- ▲ **Organization dynamics**

2024 Key figures

Training

1,058	total number of pupils in different courses <i>including</i> 932 in engineering training <i>including</i> 210 in apprenticeship 34 Advanced masters 92 PhD students 20% foreign students 35% women 35% student grant recipients
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Recruitment

378	students in all courses
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Research and Innovation

5,68 M€	research contracts (CNRS, Armines, school)
184	publications <i>including</i> 141 high-level publications
39	HDR (Accreditation to supervise research)
13	chairs and joint laboratories
4	R&D platforms

Industrial Engineering Center

2,1 M€	contract activities
41	high-level publications
61	staff

Clément Ader Institute - Albi

1,2 M€	contract activities
41	high-level publications
65	staff

RAPSODEE Center

2,3 M€	contract activities
55	high-level publications
98	staff

Resources

345	staff <i>including</i> 46% women 28% researchers (except PhD students) 7% R&D engineers
32,5 M€	annual revenue <i>including</i> 9,8 M€ own resources

Scientific and Technical culture

1,775	external visitors to school events <i>including</i> 950 schoolchildren
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Alumni Graduated in 2023

94%	net employment rate within 6 months
10%	employed abroad
42,012€	median gross annual salary*
42,500€	median salary - women*
42,150€	median salary - men*

*(with bonuses in France)

Technological Incubator

14	number of startups
87%	5-year survival rate of business created with the support of the school

IMT Key figures

11,200	students engineers and managers
96%	net employment rate (within 12-15 months)
93 M€	own resources
2,860	international publications (SCOPUS database)
5,500	active partnerships with SMEs and ETIs

An influential school

/ 2024 AT A GLANCE

IMT Mines Albi distinguishes itself as a major engineering education and research stakeholder. Its academic and scientific excellence has been recognized via prestigious prizes, and its commitment to future-focused education by both excellence standards and flagship rankings.

Winning young talents

Two international students

joined the engineering course via the prestigious **Eiffel scholarships**, a program run by the French Ministry for Europe and Foreign Affairs that recognizes exceptional global talents.

Two female engineering students were **recognized by Fondation Mines-Télécom**: one for her internship focused on the industrialization of high-quality farmland with a quarry operator SME (DURANCE Granulat); and the second for her apprenticeship at Bouygues Énergies & Services, where she headed up an innovation project in the energy sector.

Paul Savignac, doctoral student at CGI, won **the i-PHD competition**, a nationwide scheme focused on supporting the transformation of research into start-ups. He is now on a support program to fast-track the development of his entrepreneurial project.

A school making its mark

IMT Mines Albi again features in the 2025 Best School Experience ranking, published by Speak&Act, ranked 16th among **the engineering schools most appreciated by students**.

For the last two years, the school has featured in the **THE Impact** global ranking, which assesses schools' commitment to Sustainable Development Goals (SDG).

In 2024, IMT Mines Albi was ranked 27th in France, confirming its role as a committed stakeholder.

2024 saw a sharp rise of **5 places up the L'Étudiant ranking** with the school particularly distinguishing itself in the "*Research and Academic Excellence*" category, ranked 17th nationally and 3rd in the Occitanie region.

Impactful research

IMT Mines Albi confirms its scientific excellence. Seven of the faculty members at the **RAPSODEE and ICA-A centers** feature, for the second consecutive year, in the ranking of the **2% most cited scientists in the world**, published by Stanford University.

At the 2024 Rendez-vous Carnot, Olivier De Almeida, professor at ICA's Albi site, won two major prizes: **the Grand Prix Carnot** (Grand Prize) **and the Prix Carnot de la Recherche Partenariale** (Partnership Research Prize).

These awards recognized his work in collaboration with incubator member HYCCO, which is specialized in development of key components for the deployment of hydrogen mobility.

IMT Mines Albi and its CGI **Industrial Engineering Center** also shone at the **IPIC 2024 - International Physical Internet Conference**, in the United States. Ziqing Wu, PhD student, and Professor Matthieu Lauras, the center's director, each won a prize for their contributions to sustainable and resilient supply chains.

An excellence scholarship to decarbonize industry

Professor Ange Nzihou won the **prestigious ERC Advanced Grant scholarship** one of Europe's most selective, for his research on decarbonization of heavy industry. A specialist in biomass and waste valorization at the RAPSODEE Center, and currently fellow professor at Princeton University (USA), he was selected by the European Research Council for his STOREHEAT project, focusing on "*Innovative and sustainable carbon-based materials for storage of high-temperature-sensitive thermal energy*".

An transformative school

/ INNOVATION IN ACTION

Innovation and entrepreneurship are central to IMT Mines Albi's courses.

Ambitious start-ups, collaborative projects and emerging industrial dynamics illustrate the school's ability to stimulate business creation, develop cutting-edge applied research, and boost businesses' commitment alongside its students and researchers.

Inspiring ideas

Perfectly in tune with IMT Mines Albi's sustainable development commitments, the Albi-based start-up Cactile is rethinking rainwater management for more resilient and more environmentally responsible buildings. Supported by the school's technological incubator, Cactile distinguished itself by winning by **Special Jury Prize at the 2024 Groupama Departmental and Regional Pro Trophies**, confirming its impact to preserve the resources of tomorrow.

The start-up **Hopper** reached a milestone by successfully completing its fundraising, marked by the injection of capital by Proteor, a renowned expert in the field of prostheses. The aim of this strategic partnership is to democratize access to sport for all and fast-track the international deployment of **innovative amputee-focused solutions**.

Winner of the **France 2030 "Première Usine"** (First Factory) call for projects, HYCCO has fast-tracked its industrialization with an investment of €8 million since 2023. Supported by the ICA-A center and Olivier De Almeida, HYCCO is increasing its bipolar plate production from 10,000 to 165,000 units by the end of 2027, a dynamic recognized with the Prix Carnot.

When virtual reality meets Supply Chain

IMT Mines Albi and Georgia Institute of Technology co-developed **an immersive Supply Chain Engineering program**, inaugurating its hybrid campus in 2023. At the end of 2024, the school held the first classes - *"Modern Supply Chain Fundamentals"* and *"Immersive Performance Management"* - designed to combine breakthrough technological innovations and unique practical experiences. Firms such as Merck Life Science, Pierre Fabre and even Siemens took part in these first classes.

Innovating and learning without borders

Nearly 40 academic partners from higher education, research and innovation representing 20 countries were welcomed to IMT Mines Albi for the **IMT Global Partners Forum**, organized on the fringe of EAIE 2024. A unique opportunity to promote the school, its missions, partnerships, and campus, as well as its educational and research expertise.

Based on its long-term relationships with renowned university partners, France-International CCIs and French businesses based in **Colombia, Malaysia and Vietnam**, IMT Mines Albi was awarded **three Erasmus+ grants** to develop the mobility of faculty members and students, particularly on professionalization contracts.

2024 was also marked by the organization of several international scientific symposiums focused on the issues of tomorrow:

▲ WasteEng 24 in Japan:

an event celebrating 20 years of research and innovation focusing on waste and biomass valorization for a sustainable transition, headed up by the RAPSODEE center.

▲ AMAC Scientific & Technical Days:

(Association des MATériaux Composites, French Composite Materials Association) focused on composite recyclability and end of life, organized by ICA-A and the Bordeaux Institute of Mechanical Engineering.

▲ Pro-VE 2024:

for the second time, CGI hosted this scientific symposium focused on collaborative networks in non-linear environments, driving industrial sustainability and efficiency.



Research and innovation: two joint laboratories for a sustainable impact

IMT Mines Albi has confirmed its commitment to more sustainable engineering:

- ▲ **CGI and Liège CHU**
(*Centre Hospitalier Universitaire*, University Hospital) are joining forces via a new joint laboratory to optimize management of surgical flows using digital twinning, reducing environmental footprint and healthcare pathway inefficiencies on four hospital sites.
- ▲ **The RAPSODEE UMR CNRS 5302 center and the firm PRAYON** have renewed their PHOSFORLAB joint research laboratory. Aim: industrializing phosphate engineering innovations to manage energy and environmental resources more sustainably

School - businesses, a mutual growth ecosystem

For the first time, IMT Mines Albi and IMT Mines Alès joined forces to organize a joint business fair featuring nearly 1,800 students from 6 schools and more than 330 businesses to create opportunities and promote exchanges.

The school organized the **2nd Ingé'Innov fair**, a showcase for industrial innovation and performance projects headed up by students. This event enables businesses, associations and local authorities to:

- ▲ **identify students' skills**;
- ▲ **expand their network** and meet faculty members;
- ▲ **find out about regional innovation** support schemes.

In response to technological developments and market needs,

IMT Mines Albi is reorganizing its training courses. This dynamic includes the creation of the "Data engineering for information and energy systems" option, in tune with current business issues.

Finally, IMT Mines Albi has seen a record increase in work-study program recruitment, confirming the growing attractiveness of this educational pathway and its effectiveness for **the occupational integration of its students**.

A school on the move

/ COMMITMENTS AND INITIATIVES

IMT Mines Albi organizes a variety of initiatives that transform its campus and catalyze its societal impact. Via its environmental commitment, its attention to inclusion and its openness to knowledge sharing, the school affirms its transitional and collaborative dynamic.

An inclusive and united eco-campus

▲ Diversity Week

The school organized its first **Diversity Week**. From the collaborative fresk to virtual reality experiences on invisible disability, as well as global meals and adaptive sports, **each initiative promoted engagement and dialogue** on inclusion for the entire school community.

▲ Charte Atypie-Friendly

IMT Mines Albi places the well-being and inclusion of students at the heart of its commitments. As a signatory of the **Charte Atypie-Friendly** (atypical-friendly charter), the school is increasing awareness of neuro-atypical disorders, particularly autism, and accessing special resources to foster a more inclusive learning environment.

▲ Access to healthcare

In parallel, a collaboration with **CPAM and the Tarn departmental branch of the Red Cross** helps to inform students about their rights to access healthcare and assistance. A **handout of food and hygiene kits** was organized to provide practical support for students in difficulty and increase solidarity on campus.

▲ Festival Futurs Proches

IMT Mines Albi hosted the first year of the **campuses in transition festival**, a nationwide initiative headed up by Toulouse University designed to raise awareness of environmental and societal issues. This event featured workshops, conferences and practical actions to encourage students and staff to think about and take action to address environmental issues.

The new Learning Center project has been launched!

To support the development of learning methods and increasing student numbers, IMT Mines Albi **is rethinking its teaching spaces** via its Learning Center project.

Designed to promote active learning, access to educational resources and collaborative work, this project is part of an environmentally responsible approach. Rather than building new facilities, it is based on rehabilitation and optimization of existing spaces.

Encouraging women in science and entrepreneurship

Since 2021, IMT Mines Albi and IMT Mines Alès have headed up the **Exception'Elles program**, a scheme designed **to support female leadership and entrepreneurship**, and eliminate psychological barriers to business creation by female engineering students. In 2024, this initiative won the CDEFI **Prix Ingénieuses for the school with the highest participation**.

IMT Mines Albi is part of the **Ambassadrices program**, set up by IMT and its Foundation, to raise awareness of scientific careers among female middle and high school students. In 2024, five student engineers and PhD students joined the initiative to share their experience and inspire the next generation of female engineers.

Sharing knowledge

IMT Mines Albi is furthering **its commitment to disseminating scientific culture** by hosting flagship events like *Fête de la Science* and *Researchers' Night*, which attracted more than 1,500 visitors. These actions aim to raise awareness of science and innovation among young people, as well as affirming the school's position as a major stakeholder in science outreach.

The school also continues to promote open science, maintaining an **unrestricted access publication rate of over 90% in 2023**. This approach confirms its key role in knowledge dissemination and research accessibility.

IMT MINES ALBI WOULD LIKE TO THANK THE MANY ORGANIZATIONS, COMPANIES, AND COMMUNITIES WITH WHOM THE TEAMS WORKED IN 2024 FOR THEIR SUPPORT*:

Accenture, ACTIA Automotive, ADEME, Aegys, AGAMAN, Agap2, Agilea, Airbus, Airbus Humanity Lab, Akkodis, Albi Colis Services, Alès Myriapolis, Alpes Contrôles, Alpha Recyclage Composites, Alpha Recyclage Franche Comté, Altemed, Alten, Amarenco, Amnesty International, ANR, Apave, Arcelor Mittal, Ardatem, Arkolia, Armée de Terre, ARTIFEX, ASBL Groupe Santé CHC, Association Horizon Canopée, ASSYSTEM, ATOS, Atypie Friendly, Audemard, AUTORITÉ DE SÛRETÉ NUCLÉAIRE, Axens, Axone, Banksia, Barbanel, BASSETTI, BETEM, Blanc AERO Industries, Bocard, Bosch France, BOUYGUES CONSTRUCTION, Brault TP, Briane Environnement, BRL Ingénierie, BTP Consultants, Bureau Veritas, Cabi Group, Cactile, Campus France, Capgemini, Capse France, CB4TECH, CCI Tarn, CEA, CETIM, CGI, CHIMIREC SOCODELI, CHU Toulouse, CIMPA, C.I.T.E.L., CNES, COLAS, Complex Bau AG, COMUE de Toulouse, Communauté Urbaine de Dunkerque, Consultys, Comptoir général du ressort, CREALAD Bâtiment, Crédit Agricole Technologies & Services, CSIERESO, Curium Pet France, Cyclife France, Cyclorgaz, Dalkia, Dassault Systèmes, DEDIENNE AEROSPACE, DEETEC EU, DEKRA, Demathieu Bard, DGA, DGAC, Diota, Eau et Chauffage Occitans, Eco-Tech Ceram, EGIS, EDISSYUM CONSULTING, EFOR Group, Eiffage, Eiffage Energie Systèmes, EKO!, Elioz, Enedis, Energy Pool, Energy Pool Développement, Eodd Ingénieurs Conseils, EP2C Group, EPC France, EPSI, ERAMET, Ergopolis, Erchart Energie, Etablissements F. MORTELETTE, Établissement Gérard Senegas, Etandex, Evo, EXPLEO Life Sciences, Externatic, Face Tarn Aveyron, Fareva, Fayat, Fin'tech Industrie, Fondation Mines Paris-PSL, Fondation Mines-Télécom, FONROCHE ENERGIES RENOUVELABLES, France Chimie Méditerranée, FREYSSINET, GCC, Générale du Solaire, Ginger Holding, Good Move, GRDF, GROUPAMA SUPPORT ET SERVICES, Groupe Andine, Groupe Briand, Groupe Darver, Groupe EDF, Groupe GB, Groupe IDEC, Groupe Lactalis, Groupe Ortec, Groupe Pigeon, Groupe Pochet, Groupe Qualiconsult, Groupe SNEF, Groupe Unifer Travaux Ferroviaires, GSE, Laborie, Guinot TP, Lactalis Nestlé Ultra-Frais, Laporte Euro, Lefort Francheteau, Heidelberg Materials France, Homapp, Hydrogeotechnique, IKOS, Ilea Connect, IMERYS, Immersive Factory, IMPAC Ingénierie, INCITIUS SOFTWARE, Ingelligence Technologies, INGEROP CONSEIL ET INGENIERIE, Ing'Europ, Inoprod France, Institut National Universitaire Jean-François Champollion, IRIS Conseil, ISIS, ITNI, J2R Dynamics, Jacobs Clean Energy, Jeldwen France, Jifmar Offshore Services, Jupero Lab, Kalies, Kaufman & Broad, KP1, Laboratoires URGO, Lactalis Nestlé Produits frais, Lafarge Granulats, Latitude Solaire, La Régie de quartiers de l'Albigeois, LFB Biomanufacturing, Le Grand Narbonne, Leo Pharma, Léon Grosse, Les Allées Cavalières, Les Poteries d'Albi, LGM, LHOIST FRANCE, LIEBHERR Aerospace, Lisi Aerospace, Maillon Mobility, Maison Bruyère, Mairie d'Albi, Marine Nationale, Mecanic Vallée, MidiSup, Natais, Naval Group, Neoen, Nepsen, NGE, NEWCLEO, Nexter, Next4, Notrelec, NOVAM INGÉNIERIE, Novo Nordisk, ONET Technologies, ORANO, ORLLATI REAL ESTATE SA, OTEIS, Parlym, Payet, Paprec France, Percall Group, Pharma Plan, Pierre Fabre S.A., Phida Groupe, Pôle AgriSudOuest, Pôle territorial Albigeois-Bastides, Prayon les Roches, Projets en Action, Protection Civile du Tarn, Prony Resources, PURFLUX GROUP, PURFLUX Filtration, Q Energy, Qair Energy, Région Occitanie, Report One, RTE, Roger Martin, Roxel, Sabena Technics, Safran Engineering Services, Saint-Gobain Isover, Sanofi, Scalian, Scalian OP, Schneider Electric, SCINEO, Sector Group, Segula Engineering, Sefee, SERA, SERVICE D'INFRASTRUCTURE DE LA DÉFENSE, SETEC EOCEN, Siemens, SII Sud-Ouest, Sireos, SLB, Smac, Smart Energies, Smile, Sobeca, Socotec, Softway Medical, Sogefi, Solutec, Sopra Steria, SPIE, SPIE Batignolles Génie civil, SPIE Citynetworks, Start People, SPIE Industrie, ST Microelectronics, Suez, Sunbiose, Surplus Recyclage, TECMI, Technip Energies, Titanobel, Tolosa Elagage, Total Energies, Toulouse Métropole, TSE, Tractebel Engineering, Trigo ADR France, Tryfil, Unicem Occitanie, Université de Toulouse, Urbasolar, Vacoa, Valdelia, Veolia, Vicat, Vinci Autoroutes, Vinci Construction, Vinci Energies France, Viveris Technologies, Volvic, WTW.

* Non-exhaustive list



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