

Carnot M.I.N.E.S brings together MINES ParisTech, the Schools of Mines integrated into Institut Mines Telecom (IMT Mines Albi, IMT Mines Alès, MINES Saint-Etienne, IMT Atlantique, IMT Lille Douai), Ecole Polytechnique, ENSTA Paris, SIGMA Clermont, ARMINES, MINES ParisTech Foundation and the CNRS.

Thanks to its academic excellence and its ability to bring concrete solutions to companies, Carnot M.I.N.E.S stands out for its territorial anchoring and its multidisciplinary.

[www.carnot-mines.eu](http://www.carnot-mines.eu)

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## RESEARCH HAND IN HAND WITH COMPANIES

### Fields of application for the future

Carnot M.I.N.E.S. stands out with a multi-sector offer:

#### Energy, resources, environment

Carbon Capture, Storage and Recovery, Power to X, Energy Efficiency, Hydrogen, Market Economics, Environmental Impact

#### Transportation, sustainable mobility

Lighter structures, New materials and their transformation processes, Intelligent transport systems, Logistics, New mobilities

#### Building, Public Works

Revalorization and recycling, New materials, Air quality, Energy performance

#### Industry of the future

Additive manufacturing, Systems control, Innovative design, Digital business transformation, Digital twinning, Virtual reality, and Augmented reality

#### Health

Medical textiles, Implants, Biosensors, Galenics, Statistical learning algorithms, Hospital management support tools

#### Telecom, Digital

Supervision, Cybersecurity, Quantum technologies, Data mining, Databases, Media use

#### Services

Corporate forms and governance, Managerial practices, Innovation management, Future of industry and labor, Risk and crisis management, Resilience

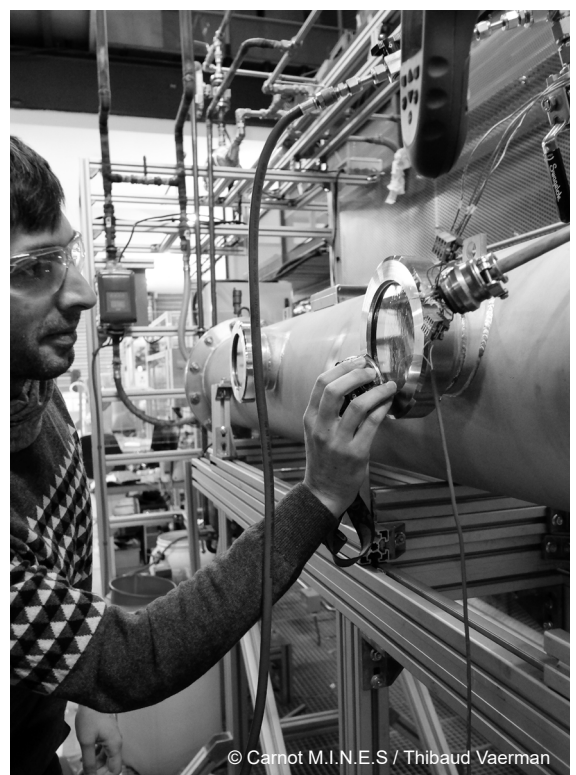
#### Luxury industry, consumer goods

Preservation of intangible heritage, Transmission of know-how, Sensoriality of materials, Connected devices, Flexible electronics, Biosourced materials

### A multidisciplinary network

Research teams at the best international level in 45 research centers and 5 thematic departments:

- Earth and environmental sciences
- Energy and process engineering
- Materials Science and Engineering
- Applied mathematics, computer science, automation
- Economy, management, society



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Earth and environmental sciences  
 Materials Science and Engineering  
 Energy and process engineering  
 Applied mathematics, computer science, automation  
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## Innovation at the service of companies

Carnot M.I.N.E.S created in 2016 a service «Support for Innovation and Development» in order to facilitate companies' access to R&D resources.

This one-stop shop for companies offers operational contacts to provide solution to their R&D needs and to benefit from financial engineering advice for the setting up of their projects.

This service, which is particularly appropriate for VSEs, SMEs and midcaps that are new to research, regularly organizes industrial days and thematic workshops to meet the needs of manufacturers with research laboratory demonstrators and proofs of concept.



## Key figures

Permanent staff (full-time equivalent): 1021  
 PhD Students: 964

Partnership incomes with industry: €33,4M  
 Global budget: €127,6M

## Contacts

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## CARATS

French research is moving closer to the fashion and luxury industry to support the «France» brand and its ancestral know-how. The Carnot M.I.N.E.S animates the CARATS network around 5 major challenges:

- Creation and engineering
- Fashion and luxury of the future
- Image and brand identity
- Sustainable development
- Innovation and skills management

