

Labeled since 2006, the Cetim Carnot Institute (IC Cetim) is a benchmark for the innovation of manufacturing industries primarily made up of SMEs, the linchpin behind domestic production in France. IC Cetim is giving impetus to a critical upmarket move in support of a highly competitive and attractive French industry. Through its solutions and services, IC Cetim encourages the use of digital and environmental technologies and is innovating to help the supply chains of industrial sectors bring about their industry of the future transformation.

www.cetim.fr/en

FRANCE'S LEADING CENTER FOR R&D IN MECHANICAL ENGINEERING AND A KEY CONTRIBUTOR TO THE INDUSTRY OF THE FUTURE

IC Cetim, driving R&D in the manufacturing industry

As part of an international group with some 1,000 employees working across 3 continents, IC Cetim has a strong national presence through its facilities located in all major French regions. Boasting an unparalleled organisation in France, it lends its expertise through regionally-centred initiatives.

This local approach serves the upmarket positioning and transformation needs of SMEs.

IC Cetim's competencies revolve around 21 operational partner research units. Its industrial contracts hinge on 32 technical experimentation platforms located throughout France.



Target markets

- Aerospace, Automobile
- Oil & Gas
- Energy / Eco-industry, Environnement
- Defense / Weapons
- Health, Luxury, Agri-food

Skills :

- Failure analysis and expert investigation
- Rubber, plastics: materials, processes, mechanical behaviour, simulation
- Expert investigation, metrology and calibration
- Additive manufacturing
- Innovative assembly designs
- Fatigue, optimisation, durability
- Industry of the future
- Polymer and composites engineering
- Test engineering
- Software
- Metallic materials and surfaces
- Monitoring, inspection, connected objects
- Industrial and sustainable performance
- Simulation
- Integrated production systems
- Fluid and flow technologies
- Sealing technologies
- Power transmission
- Strategic technology watch



Specific R&D strategies to activate drivers of short-, medium- and long-term growth

IC Cetim is innovating for the Industry of the future transformation. Its services promote the use of digital and environmental technologies with the aim of:

- Turning societal and environmental changes into assets for a company, to guarantee carbon-free, clean and energy-efficient products
- Digitising business segments and production to ensure controlled, efficient and automated production
- Accelerating the development of new products / uses, for higher value-added products, lower design costs and shorter industrial production launch times.
- Guaranteeing operational excellence, for a high level of availability of the facilities and optimised product service life

A partnership approach

- Nine joint laboratories (engineering schools or universities / CNRS)
- A joint Mechatronics institute at UTC
- Work carried out under the aegis of Fondation de France
- Over 200 scientific and technological partners in France and worldwide
- More than 200 seats held in standardisation bodies

Key Figures

**Permanent staff
(full-time equivalent): 272
PhD Students: 28**

**Partnership incomes
with industry: €28,8M
Global budget: € 69,5M**

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