

The Chimie Balard Cirimat Carnot Institute provides companies with R&D support in Chemistry, Materials and Processes.

We address environmental and societal concerns in the energy, health, cosmetics and transport industries. We offer innovative solutions to our partners, drawing upon our expertise in green chemistry and processes and in materials with enhanced properties.

The comprehensive coverage of these areas by our research groups and the access to four state-of-the-art technological platforms allows us to meet any challenge.



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Excellence in chemistry, materials science and processes at the service of industry

Targeted industries

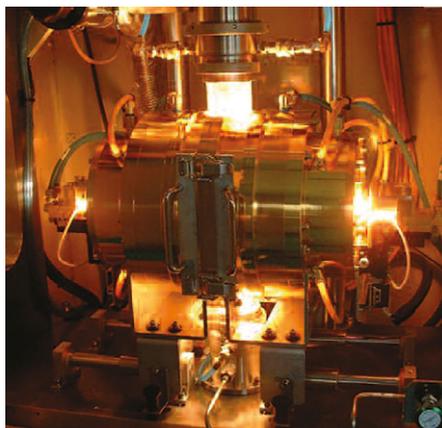
- Chemical
- Pharmaceutical
- Medicinal
- Aeronautical and space
- Transportation
- Construction
- Metallurgical
- Nuclear
- Petrochemical
- Environmental

Meeting industry's challenges

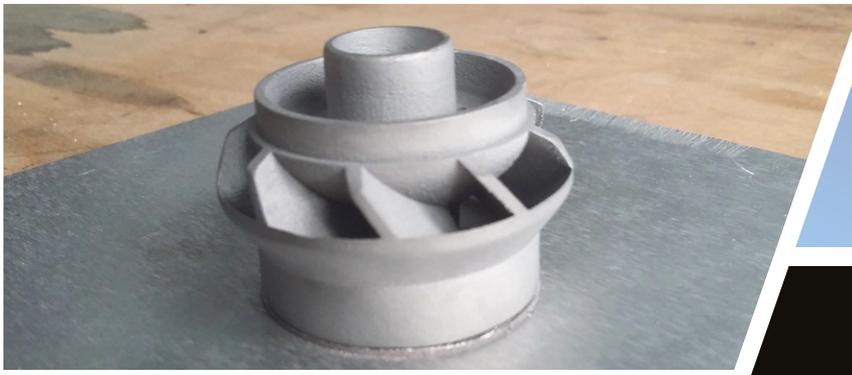
- From needs analysis to integrated solutions, we support companies in their **R&D projects**.
- We use the **pluri-disciplinary expertise** of more than 600 researchers to bring innovations to market.
- Our research partnerships have a **high added value** through a balance between basic and applied research.
- The **network of 38 Carnot Institutes** benefits our partners, by allowing an interdisciplinary approach. It is also a guarantee of professionalism and results.

A strong commitment to accompany our industrial partners:

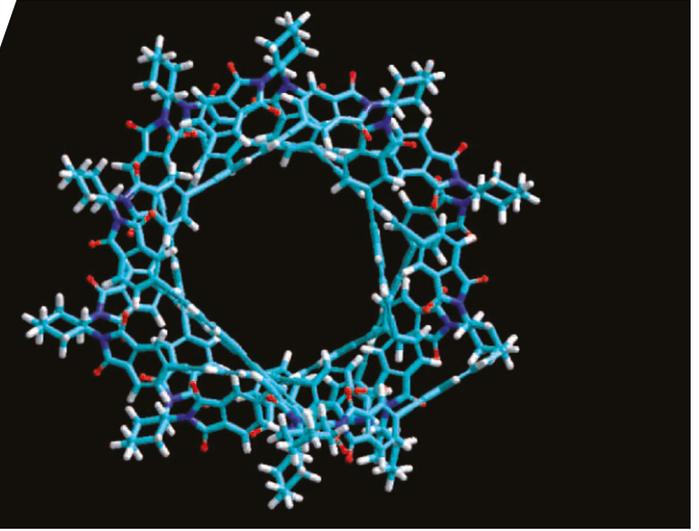
- a single contact point to identify the appropriate research teams to address your needs;
- traceability, confidentiality and protection of the results;
- transfer of technology and expertise;
- accredited quality procedures for the contracting and management of the research partnership.



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Discover our high-tech platforms

Our institute disposes of a unique collection of technology platforms that support the R&D carried out with our industrial partners. This state-of-the-art equipment is used for synthesis, characterisation and shaping in the chemical and materials sciences.

- ➔ Balard Analysis and Characterisation Platform (Montpellier)
- ➔ SynBio 3 (for the synthesis of bespoke peptides and polymers; Montpellier)
- ➔ National Spark Plasma Sintering Platform (Toulouse)
- ➔ ChemLab Industrial Pilot Plant (Montpellier)
- ➔ Additive Manufacturing Platform (Toulouse)
- ➔ Equipment for the scale-up of materials synthesis (Toulouse)

At each platform our partners benefit from a personalised accompaniment and the expertise of the technical and research staff.

Pluri-disciplinary research in key activity sectors:

- ➔ **Energy:** alternative fuels, fuel cells, hydrogen vector, electrochemical storage and conversion, structural materials for the nuclear power industry
- ➔ **Health and Cosmetics:** drugs, vectors for drug delivery, biomaterials, pharmacological tools, medical devices
- ➔ **Transportation (aeronautics, space, rail, automobile):** structural materials, coatings, components
- ➔ **High-performance Materials:** metals, alloys, nano-materials, ceramics, polymers, fabrication methods, durability
- ➔ **Bio-sourced Chemicals and Materials**

Research staff
(full-time equivalent): **630**
including PhD students: **250**

Income from industry
partnerships: **7,3 M€**

Global budget: **33,8 M€**

CONTACTS

Yannick GUARI

Director
yannick.guari@umontpellier.fr
+33 (0)4 67 14 42 24

Philippe TAILHADES

Deputy Director
tailhade@chimie-ups-tlse.fr
+33 (0)5 61 55 61 74

Jérôme PARMENE

Operations Manager
jerome.parmene@carnot-
chimie-balard-cirimat.fr
06 37 47 62 84

4 top-flight research laboratories



5 oversight research institutions



École Nationale Supérieure
de Chimie de Montpellier
240, avenue du Professeur
Émile Jeanbrau
34296 Montpellier Cedex 5

CIRIMAT
118, route de Narbonne
31062 Toulouse Cedex 4 France



www.instituts-carnot.eu