



# Chemistry/Materials

- Presence of large companies of international scope
- 15,700 jobs (chemistry, rubber and plastics) in Aquitaine, in 719 businesses
- Between 100 and 150 businesses making or processing composite materials (5000 jobs)
- The 2nd largest export sector for the region and largest importer
- 3rd region in France for chemistry research, with 10% of the nation's research capacity
- A European centre of excellence for assembly using glues and other adhesives
- A laboratory for excellence (Labex): AMADEUS (bespoke advanced materials)
- A centre of excellence (Equipex) : ELOR PrintTEC (printable materials and organic systems)
- CANOE (Aquitaine Consortium for Innovation in Organic and Electronic Nanomaterials)
- A number of private European research laboratories - Rhodia, Eurovia, Saft, SNPE, SNECMA...
- Aquitaine Sustainable Chemistry Initiative (ACD)
- A top class technological platform in ATA – Advanced Aeronautical Technologies
- Sites which are competitive in the face of environmental challenges and changing regulations (Reach)

## Cutting Edge

**European Center for Advanced Materials and Thermostructural Composites**

European leaders in pultrusion of industrial shaped materials

**Nanomaterials**

**Green chemistry and environmental science**

**Chemistry of wood and wood derivatives**

**Wine-related products, fertilizers, nitrates, phytosanitary products,**

**Sulphur chemistry, vegetable extraction, preparation of active ingredients,**

**Varnish, detergents, nitrocellulose, explosives, pyrotechnics, rubber**

## Training

- 5 specialized Master of Chemistry programs at University of Bordeaux 1
- National School of Chemistry, Biology and Physics – ENSCBP
- New engineering programme at ENSCBP 'structures and composites'
- European Master's Degree in FAME (Functionnal Advanced Materials and Engineering)
- Doctoral school in chemical sciences
- IUP Materials Engineering
- Professional degree in composite technologies at the Bordeaux IUT
- Europe's only technical training centre specialising in large-scale composite parts: Composite Technotraining (C2T)

## Research

- Chemistry accounts for 12 % of Aquitaine's researchers.
- European Institute of Chemistry and Biology – IECB
- GIS AMA (Advanced Materials in Aquitaine, 11 laboratoires)
- A new Carnot Institute: ARTS (materials, processes, mechanics)
- The MIB Carnot Institute (the Materials and Systems Institute of Bordeaux) has 9 research laboratories, including:
  - » Paul Pascal Research Centre – CRPP
  - » Bordeaux Institute of Condensed Material Chemistry – ICMCB
  - » Materials and Systems Integration Laboratory – IMS
  - » Molecular Science Institute – ISM
  - » Organic Polymer Chemistry Laboratory - LCPO
  - » Thermostructural Composites Laboratory - LCTS
  - » Mechanics and Engineering Institute (I2M)

## Industry associations / TransPer

- Chemical Industries Union
- Aquitaine sustainable chemistry
- Center for Technological Resources in the Field of Materials and Binding – Rescoll
- Innovialis Aquitaine Chemistry and Materials
- Technical Platform: Cheminnov
- GIS Materials in Aquitaine

## Main companies :

Arkema – Arc Industrie- Air liquide – Evonik Cofrablack – herakles (merger of SME and SPS)– Eka Chimie – Labsochimie Fine – Yara Ambes – Rhodia – Eurovia – Biolandes – Berkem – Michelin – Comipso – Cerexagri – Dérivés Résiniques et Terpéniques – Siap – Europlasma – L'Electrolyse – Laffort et Cie – Epsilon Composites – Soficar SIAP – Produits chimiques du Ciron – Saft – EADS Composites Aquitaine – MLPC International – PolymerExpert – Rescoll – Polyprocess – AEC Polymers...

