

# THE SURFACE TO IMPROVE PERFORMANCE



## Your expectations

To meet the challenges of energy and ecological transition, circular economy, new energies and e-mobility, the surface enables additional functions to a product, in addition to the properties of the base material:

- Improved performance
- Extended life span
- Reduction of manufacturing costs (sobriety)
- Innovation and multifunctionality
- Substitution of regulated substances (HSE context)

To achieve this, surface engineering allows to :

- Design functional surfaces (tribological, anti-corrosion, antifouling, appearance modification, antibacterial, etc.)
- Characterise surfaces
- Evaluate the performance of surfaces on dedicated test facilities

## Our solutions

CETIM is positioned in surface engineering throughout the value chain from design to the end of life of industrial equipment:

- R&D and industrialisation of new surface functionalisation technologies (e.g. sol-gel coatings)
- Taking into account the surface from the design stage via a choice aid approach centred on the need (the function)
- Definition and optimisation of manufacturing ranges
- Control of key surface characteristics
- Evaluation of performance under operating conditions
- Monitoring: In-situ surveillance
- Failure analysis: REX, recommendations and implementation support

## Your benefits

More than 50 years of expertise in coatings and surface treatments with numerous feedbacks from various sectors of activity.



Pilot laboratories for wet surface treatment and sol-gel coating.

A unique offer combining Cetim's expertise with that of our academic (R&D) and industrial (process) partners.

Access to surface characterisation and testing platforms in the fields of tribology and corrosion.

A support capacity to go from a low TRL to an industrialisation of advanced technology in surface engineering.

A response perfectly adapted to your challenges thanks to our multi-technological skills and our independence.

A capacity to integrate your environmental issues (mastery of the regulatory framework)

Specific [Cetim Academy® training programmes](#)



**Question and Answer Service**

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