



STRUCTURAL AND MORPHOLOGICAL ANALYSIS

CIC
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MEMBER OF
BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

STRUCTURAL AND MORPHOLOGICAL ANALYSIS

Structural and morphological analysis provides a full overview throughout the crystalline and morphological structure of materials as well as information about their surfaces.

WHAT CAN WE DO?



- Crystalline structure analysis: structure characterization, degree of crystallinity (defects, disorder, crystallite size), crystalline orientation and local atomic environment and phase transitions (in situ and ex-situ).
- Structural analysis: of amorphous solids, polymers, gels and semisolid materials. Surface texture analysis: roughness, crystalline orientation, topography at sub nanometer scale.
- Sample morphology analysis: film thickness, grain size, specific surface area, open and closed porosity, density.

FOR WHO?



Food and
agriculture



Aerospace



Automotive



Pharmaceutical



Polymer and
composites



Metallurgy and
metallography



Glass industry



Paint and
pigment



Energy storage
devices



Chemical



Microelectronics



H₂ value chain
components



Petrochemical

INDUSTRIES

WE OFFER



**TURNKEY
SOLUTION**



CONSULTING



**TRAINING ON THE
SPECIFIC
TECHNIQUES**



JUST PLATFORM

HOW?

Electron Microscopy (EM)	Surface Analysis Unit (SAU)	Nuclear Magnetic Resonance (NMR)	X-Ray Diffraction (XRD)	Thermal Analysis platform (TA)	General characterization (GCS)
TEM	AFM/STM	ssNMR	PXRD	DSC	GAP
edx-TEM	LEED	pNMR	pNMR		MP
SEM	SP	NMR	NMR		HP
edx-SEM	FTIR				
	RS				

EQUIPMENT & TECHNIQUES

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Parque Tecnológico de Álava
c/Albert Einstein 48
01510 Vitoria-Gasteiz · (Álava)
SPAIN

(34) 945 29 71 08

cicenergigune.com



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