



STRUCTURAL AND MORPHOLOGICAL ANALYSIS

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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



Metallurgy and
metallography



Glass industry



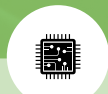
Paint and
pigment



Energy storage
devices



Polymer and
composites



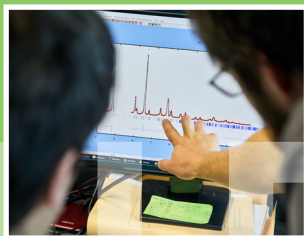
Microelectronics

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 edx-TEM SEM edx-SEM	AFM/STM LEED SP FTIR RS	ssNMR pNMR NMR	PXRD pNMR NMR	DSC	GAP MP HP

EQUIPMENT & TECHNIQUES

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