



# Electron Microscopy Laboratory

## ADVANCED MICROSTRUCTURAL AND ELEMENTAL CHARACTERIZATION

### KEY WORDS

MICROSCOPY,  
MATERIALS,  
POLYMERS

### DESCRIPTION

The Scanning Electron Microscopy Laboratory performs detailed analysis of the morphology and composition of solid materials using SEM microscopy and EDX spectroscopy, based on high-resolution images and elemental composition. Ideal for research and development in science and engineering.

The available equipment and trained personnel carry out surface analysis, paint schemes, metal cross-sections and thickness measurements in electrochemical deposits.

### APPLICATIONS

This laboratory is key to the characterization of metallic, ceramic, polymeric, and biological materials. It is used in scientific research studies, quality control, and failure analysis. Its versatility makes it applicable in production, academic, and technological sectors.

### CONTACT US

[datyc.quimica@pucv.cl](mailto:datyc.quimica@pucv.cl)

[sem.pucv@pucv.cl](mailto:sem.pucv@pucv.cl)

[Pontificia Universidad  
Católica de Valparaíso](#)