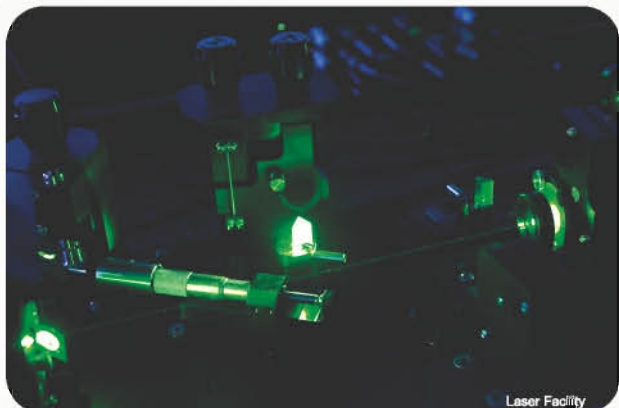


Scientific Knowledge and Technological Development

Energy - Physics and Chemistry - Construction
 Biodiversity and Earth Sciences - Computer Technology
 Science and Technology of Materials - Biotechnology
 Food Technology - Sustainable Ecosystems and Environmental Techniques
 Biomedicine - Health and Well-Being



Laser Facility

The Advanced Research Facilities (SGiker) are an important driving force in the generation of scientific knowledge and technological development, which can help to transform the Basque Country into a knowledge-based society. One of the missions entrusted to the SGikers is to foster technology transfer from the UPV/EHU as a knowledge source to companies and society in general.

Some of the research fields in which the SGikers participate involved include:

- ▶ Clean energies. Methodology of analysis for the development of new catalysts, biomass and biofuels.
- ▶ Environment. Analytical techniques under ISO 17025 standards for drinking water analysis, continentals, residuals and organic substances.
- ▶ Metallurgy. Stress and texture analysis in metallic materials after industrial processing.
- ▶ Falsification of documents. Development of new methodologies in the field of forensics.
- ▶ Pharmaceutical/food industry. Characterisation of natural and synthetic organic compounds: antioxidants, drugs and additives.
- ▶ CFD simulations for safety, indoor air quality and energy efficiency of heating systems in houses.

Advanced Research Facilities on the three campuses of the UPV/EHU



- **Bizkaia Campus:**
Edif. Rectorado
Bº Sarriena s/n
E-48940 Leioa
- **Gipuzkoa Campus:**
Edif. Joxa Mari Kortia
Avda. de Tolosa 72
E-20018 San Sebastián-Donostia
- **Araba Campus:**
Edif. Lucio Lascaray (CIEA)
Miguel de Unamuno 3
E-01006 Vitoria-Gasteiz



SGiker Technicians

Advanced Research Facilities
 Edificio Rectorado
 Barrio Sarriena, s/n - E-48940 Leioa (Bizkaia)



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Department of Economy and Competitiveness. Secretary of State for Research Development and Innovation. ERDF & ESF.
Basque Government. Department of Education, Universities and Research. Scientific Policy Division.



Advanced Research Facilities



X-Ray Photoelectron Spectroscopy (XPS)



IKERKETA ERREKTOREORDETZA
VICERRECTORADO DE INVESTIGACIÓN



SCIENTIFIC-TECHNOLOGICAL AREAS



DNA Bank

The Advanced Research Facilities (SGIker) of the University of the Basque Country/Euskal Herriko Unibertsitatea (UPV/EHU) are made up of specialist laboratories and units, equipped with highly qualified technical staff and cutting-edge scientific-technological infrastructure.

The SGIker provides knowledge and services to the UPV/EHU research community and other private or public centres, together with the business community, in the framework of agreements and contracts to provide specific services.



Scientific Photography Contest

The SGIker seeks to help promote, develop and disseminate multi-disciplinary technological and scientific research, in order to foster the advance of knowledge and the cultural, social and economic development of the Basque Country. They are also involved in training the research staff and in scientific dissemination.

BIOTECHNOLOGY AND BIOMEDICINE

Analytical and High-Resolution Microscopy in Biomedicine
Animal Housing Building
Biological Containment Laboratory Level 3
DNA Bank
Forensic Entomology Laboratory
Genomics
Proteomics
Radioisotopes

SOCIAL SCIENCES

Economic Research
Social Innovation
Sociological Research

COMMON SERVICES

Computing Applied to Research
Quality
Science Metrics
Statistics and Image Processing

TECHNOLOGICAL SUPPORT

Central Analysis Service
Cryogenic Liquids
Scientific Instruments
Singular Coupled Multispectroscopy Laboratory (Raman-LASPEA)

MATERIALS AND SURFACES

Electronic Microscopy and Material Microanalysis
Geochronology and Isotopic Geochemistry
Laser Facility
Macrobbehaviour, Mesostructure, Nanotechnology
Magnetic Measurements
Mass Spectrometry
Nuclear Magnetic Resonance (NMR)
Polymer Microscopy
Thermo-analytic Measurements
X-Rays
X-Ray Photoelectron Spectroscopy (XPS)



ENVIRONMENT

Climatology
Marine Biology
Phytotron and Greenhouse

GEOGRAPHICAL-HISTORICAL SCIENCES

Cartography Service and Geographical Information Systems
Geo-archaeological Service
Topography Service