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

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

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 biocatalysts.
- Environment: Analytical techniques under ISO 17025 standards for drinking water analysis, continental, residuals and organic substances.
- 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.

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Department of Economy and Competitiveness. Secretary of State for Research Development and Innovation. ERDF & ESF.

IKERKETA ERREKTOREOREDETZA VICERRECTORADO DE INVESTIGACIÓN

www.ehu.es/sgiker
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.

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.

**SCIENTIFIC-TECHNOLOGICAL AREAS**

**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

**MATERIALS AND SURFACES**
- Electronic Microscopy and Material Microanalysis
- Geochemistry and Isotopic Geochemistry
- Laser Facility
- Macrobehaviour, Mesosstructure, Nanotechnology
- Magnetic Measurements
- Mass Spectrometry
- Nuclear Magnetic Resonance (NMR)
- Polymer Microscopy
- Thermo-analytic Measurements
- X-Rays
- X-Ray Photoelectron Spectroscopy (XPS)

**SOCIAL SCIENCES**
- Economic Research
- Social Innovation
- Sociological Research

**ENVIRONMENT**
- Climatology
- Marine Biology
- Phytotron and Greenhouse

**COMMON SERVICES**
- Computing Applied to Research Quality
- Science Metrics
- Statistics and Image Processing

**GEOGRAPHICAL-HISTORICAL SCIENCES**
- Cartography Service and Geographical Information Systems
- Geo-archaeological Service
- Topography Service

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