

# Oportunitats de recerca i formació



GEO3BCN-CSIC offers the possibility of joining a leading research institution in Geosciences to carry out:

- Short-term activities to develop directed research (Bachelor's or Master's theses)
- Scholarships and pre-doctoral contracts (PhD theses).
- Post-doctoral research contracts.
- Research support tasks.



**We are looking for graduates and postgraduates in science, with a high motivation and skills to develop tasks in a multidisciplinary and international centre**



## Geosciences Barcelona - CSIC (GEO3BCN-CSIC)

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**GEO3BCN**

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**CSIC**

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

Geosciences Barcelona - CSIC (GEO3BCN-CSIC) was created in 1965 as the first autonomous CSIC geological research centre in Barcelona.

We are an institute of excellence in the research of superficial and deep geodynamic processes that affect the Earth's crust and mantle.

At Geociències Barcelona - CSIC we develop new methodologies to improve the prevention of geological and anthropogenic risks such as seismicity, volcanism, CO2 emissions, climate change...



## Modern geosciences for a sustainable and secure society

## Research challenges



### Georesources

The main goal is to develop new methodologies and technologies for the exploration and exploitation of mineral and energy resource in a sustainable way.

### Georisks & global change

It aims at determining how the main geological and environmental risks result from the global geodynamics of the planet, and to analyse their cause/effect relationship with global change

### Geodynamics

The objective is to improve knowledge of the structure and dynamics of the Solid Earth as well as analyse how these processes affect the generation of risks and geological resources.

## What we do



- Geological and geophysical studies of the lithosphere and subsoil.
- Exploration and assesment on the exploitation of geological resources.
- Experimental and mathematical modelling of geological, environmental and climatic risk processes.
- Multidisciplinary characterization of geological materials and historic and artistic heritage.
- Technological development of new instruments and applications for geophysics, geochemistry and the environment.

## Services



- **Laboratory of Hyper-Spectral Imaging**
- **Laboratory of Geodynamic Modeling**
- **Laboratory of Geochronology (Th-230/U-234)**
- **X-Ray Diffraction Service**
- **Laboratory of Optic and Electron Microscopy and Image Analysis - MICROLab**
- **Paleomagnetic Laboratory (CCiTUB-CSIC)**
- **SIMGEO Facility**
- **PALAB - Laboratory of Palaeoecology**
- **Seismic Laboratory - LabSis**
- **Laboratory of Raman Spectroscopy and Photoluminescence**
- **labGEOTOP Geochemistry Service**

