

## Pre-doctoral Contract on organic pollutants in air, water, sediments, soils and fish

### The role

We offer a pre-doctoral contract to conduct research as part of a PhD thesis in Environmental Chemistry, working for the PID2023 project Recoveries from pollution in water, organisms, air and food in the Ebro River after remediation of the wastes dumped from a chlor-alkali plant (Flix Reservoir): Extrapolation to other river systems (REC-FLIX).

The tasks to be performed include:

- Field work for the sampling of the environmental compartments to be studied: air, water, sediments, soils and fish, along the lower course of the Ebro River, from Riba-roja reservoir to the river's mouth.
- Analysis of trace organic pollutants present in the samples (mainly organohalogen compounds, pesticides and heavy metals).
- Investigate the relationship between exposure to these compounds and potential toxic effects on organisms.

### Training

The candidate will gain expertise in the most advance analytical techniques of gas and liquid chromatography coupled to mass spectrometry. She/he will learn how to carry out field sampling for the analysis of trace organic contaminants and the use of statistical techniques for association of exposure to organic contaminants and toxic effects.

### What do we look for?

- **Qualifications**  
Master's degree or equivalent in Chemistry, Biology, Environmental Science or a related field.
- **Conditions for applying**  
Willingness to do field work  
Not to be in possession of a doctoral degree  
Not having started a doctoral thesis with other grants awarded under the "Plan Estatal de Investigación".  
Not having held a pre-doctoral contract for a period of more than 12 months.

### Additional information and dates

- **Contract duration:** 4 years.
- Candidates must submit their application to the corresponding CSIC call, foreseeably to be opened between October 15th and November 15th. The estimated date of the resolution is the end of December, so that the selected candidates will start between January 1st and March 1st, 2025.

### The group

The selected candidates will join the **Geochemistry and Pollution** group. For more information, visit our group webpage ([www.idaea.csic.es/research-groups/geochemistry-and-pollution/](http://www.idaea.csic.es/research-groups/geochemistry-and-pollution/))

## The institute

The **Institute of Environmental Assessment and Water Research (IDAEA)** is an environmental science institute devoted to the study of the human footprint on the biosphere. Much of the research work at this institute is centred on two of the great environmental challenges of our time: cleanliness and availability of water and quality of air.

Founded in 2008 as a member of the **Spanish National Research Council (CSIC)**, the Institute brings together a wide range of expertise in environmental science. It is organized under two Departments (Environmental Chemistry and Geosciences), established with a strong record of publication in top scientific journals, leading international projects, participating in international committees, and adopting a high-profile contribution to the identification and remediation of environmental problems.

IDAEA has demonstrated strengths in the analysis of organic pollutants and their impact on ecosystems, the study and management of water resources, the development of multivariate resolution algorithms in chemometrics, and in the study of inhalable particulate matter and toxic gases.

IDAEA has been awarded with the distinctive **Centre of Excellence “Severo Ochoa”** (2020-2024), distinction that indicates high-quality scientific leadership and global impact of the work developed at the centre.

We offer a diverse and inclusive environment where no discrimination against disability, gender, nationality, religion or sexual orientation will occur during the selection process.

## How to apply?

Those interested may email their **CV** and academic records to **Pilar Fernández** ([pilar.fernandez@cid.csic.es](mailto:pilar.fernandez@cid.csic.es)) or **Joan Grimalt** ([joan.grimalt@cid.csic.es](mailto:joan.grimalt@cid.csic.es)), adding “contrato predoctoral Proyecto REC\_FLIX” to the email subject.

**Deadline: 31 de October 2024**