

Position Offered: UNIVERSITY GRADUATE

Project: *Development, implementation and commissioning of an open Virtual Research Environment for monitoring greenhouse gases (EVI-GEIs)*

Technological and scientific fields: Data Analysis and Integration, Massive data and information processing technologies, Remote Sensing, Climate Change and Biodiversity

Location: Almería, Andalucía, Estación Experimental de Zonas Áridas (EEZA), <http://www.eeza.csic.es/es/default.aspx>

Research Group/PI: Desertification and Geocology group / Francisco Domingo Poveda

PROJECT SUMMARY

For more than 20 years, the Desertification and Geocology group of the Experimental Station for Arid Zones (EEZA-CSIC) has been studying, in collaboration with the Universities of Granada (UGR) and Almería (UAL), the fluxes and balances of Greenhouse Gases (GHGs) in terrestrial ecosystems through measurement of soil fluxes and the Eddy Covariance (FS-EC) technique, along with auxiliary meteorological, edaphic and phenological variables. FS-EC generates enormous amounts of data and information as it measures a multitude of variables in a stable and continuous manner every tenth of a second. Non-harmonized and dispersed data from various ecosystems have been generated and available since 2004. The candidate will work on the development and implementation of a virtual research environment for "open" use and consultation, and will incorporate the data into national and international networks, to promote and improve the use and efficiency of scientific data and information, encourage and strengthen collaboration, transfer and dissemination, as well as the positioning and global visibility of the EEZA-CSIC and its experimental field sites.

PROFESSIONAL PROFILE

Minimum requirements:

- Graduated in Environmental Sciences
- Fluency in Spanish and English

Merits to be considered:

- Computer knowledge at a technical level.
- Knowledge in Geographic Information technologies.
- Experience in the formation and manipulation of databases, in the operation of greenhouse gas analyzers (e.g. Eddy Covariance systems and others).

WHAT IS OFFERED

The candidate will participate in scientific publications of high international impact, will carry out training stays in highly prestigious national Institutes, such as the Interuniversity Research Institute of the Earth System in Andalusia (<https://www.iista.es/>), the Global Change Observatory of Sierra Nevada (<https://obsnev.es/>), and international, such as the Euro-Mediterranean Center on Climate Change (CMCC) in Viterbo (Italy), at Columbia University in New York (USA) (60 ECTS). You will work in the ERIC (European Research Infrastructure Consortium) networks of the ESFRI (European Strategy Forum on Research Infrastructures) program, such as ICOS (Integrated Carbon Observation System), LifeWatch (Science and Technology Infrastructure for Biodiversity Data and Observatories) or ACTRIS (Aerosol, Clouds and Trace gases Research Infrastructure). In addition, the candidate will receive extensive training in digital skills through master's degrees and courses (between 123-141 ECTS).

Contract conditions:

Indefinite contract for a University Graduate associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (37.000 € - 41.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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