

## Open position in Groundwater Hydrology at Experimental Station of Arid Zones (EEZA–CSIC)

### OVERALL:

The Department of Desertification and GeoEcology of EEZA–CSIC is offering a research contract to join the group within the framework of the interdisciplinary project **CiROCCO** funded by the Horizon Europe Programme, which gathers researchers and technicians from seven countries and eleven institutions.

The contract will cover a period of 1 year with the possibility of one-year extension based on satisfactory performance, ideally starting in October 1, 2023 (no later than January 1, 2024). The contract is part-time (66.66%) and the salary will depend on the candidate's qualifications.

The overall scientific objective of the **CiROCCO** project is to establish an end-to-end sensing system for modelling of atmospheric dust events, composed of a distributed network of cost-effective sensing nodes coupled with state-of-the-art data fusion remote sensing and assimilation modelling techniques covering the Mediterranean Basin.

The particular scientific objective of this position is to develop local and regional models of groundwater salinity from the perspective of climate change. The candidate will contribute to monitor and model the spatial and temporal influence of atmospheric bulk deposition and dust events on groundwater salinity, both at the aquifer, country, and Mediterranean Basin scales. The **CiROCCO** project offers the possibility of replicating the advances in North Africa and South Europe countries.

### JOB SUMMARY:

The aim of the successful candidate is twofold: i) to validate the experimental product of the project **CiROCCO** using the physical, biological, hydrological and hydrochemical observations available in situ; and ii) model basic groundwater variables, such as aquifer recharge and groundwater chemical baseline, and their influences to dependent ecosystems. The position will involve the preparation of project reports, national and international business trips to work with close collaborators and to present his/her research at national/international conferences as well as at project meetings. The selected candidate is expected to publish high-quality research outputs in scientific journals.

### EDUCATION & DESIRED EXPERIENCE:

The applicant should have a Master or a PhD in Groundwater Hydrology or other similar fields of study. Experience with field work, use of field equipment, basic Lab tasks, driving 4x4 vehicles is required. Previous knowledge on data analysis using programming languages such as Fortran, Matlab, or Python is also required. Previous knowledge on spatial data analysis (Geostatistics and GIS tools) is desirable. Good English skills (oral and written) is also desired. The job is in Almería city.

### APPLICATION INSTRUCTIONS:

Interested persons are invited to submit a curriculum vitae with full contact information to:

Francisco Javier Alcalá (fjalcala@eeza.csic.es)

Include in the subject: Horizon EEZA-CSIC contract + Name of the candidate