



PhD Fellowship in Artificial Recharge of Aquifers (MARadentro project)

The hydrogeology Group (<https://h2ogeo.upc.edu/en/>) offers a PhD fellowship to study water quality improvement during artificial recharge of aquifers under the Water-JPI European project MARadentro (<https://www.maradentro-jpi.eu/>). As part of the project the candidate will collaborate with international and interdisciplinary partners.

Number of offers: 1

Work objective:

The goal of the thesis is to assess the water quality improvement during soil passage and to optimize the reactive barrier design in order to improve the recharged water quality regarding contaminants of emerging concern (CECs), pathogens, and toxicity.

Work tasks:

- 1- Getting familiar with basic hydrogeological, organic chemistry and microbiology concepts, and managed aquifer recharge (MAR) operations.
- 2- Experimental work at pilot and field scale, design of sampling campaigns, perform tracer and hydraulic tests, manage probes and sensors.
- 3- Modelling and interpretation (conceptual and numerical).

Information about the job position:

- Location and work center: Barcelona, IDAEA-CSIC (<https://www.idaea.csic.es/>)
- Annual remuneration: 16.800€
- Type of contract: PhD Student contract
- Duration expected: 4 years
- Advisors: Cristina Valhondo and Jesus Carrera

Requirements:

1. Training: Bachelor in Science or engineering and Master
2. Languages: Spanish, English



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Aspects to be valued:

- Good communication skills and group work
- Reports writing
- Driving license

Qualification system:

First, the requirements and merits will be valued with a maximum score of 100 points. To obtain this note, the values obtained in the following sections will be added:

1. Academic degrees (specific weight 40%)
2. Training and improvement (specific weight 20%)
3. Selective tests and interview (specific weight 40%)

Candidates must send their CVs, titles and cover letters to cvalhondo@gmail.com under the Issue "PhD MARadentro"

The deadline for submitting applications is January the 19th at 12:00 a.m.