

PhD position in Impact of Structure on Mixing and Dispersion Dynamics in Heterogeneous Porous Media

Description

We are offering a PhD scholarship on mixing in porous and fractured media. The position is funded by the European Union Marie Skłodowska-Curie Innovative Training Network CoPerMix (grant number 956457) on Control, Prediction and Learning in Mixing Processes within the Horizon 2020 Programme of the European Commission. CoPerMix is a consortium of high profile universities, research institutions and companies located in France, Spain, Germany, Switzerland, Belgium, Italy and the UK, and will train 15 PhD students in total (Early Stage Researcher, ESR). The objective of the network is to develop a unified vision, numerical tools, and experimental techniques allowing the description and the quantification of mixing processes in complex flows, such as turbulent atmospheric or oceanic flows and those encountered in geological, granular and biological media. The PhD student will be based at Barcelona at the Institute of Environmental Assessment and Water Research (IDAEA-CSIC).

Qualifications

- Master degree in physics, hydrogeology, geophysics, civil engineering, environmental physics, soil physics, engineering sciences, or a related discipline.

Competences

- Good knowledge of English
- Knowledge and skills in quantitative research
- Interest in interdisciplinary research

Eligibility Criteria

- **Mobility:** At the time of recruitment, the applicant must not have resided or carried out his/her main activity (work, studies, etc.) in the country of the host organization for more than 12 months in the 3 years immediately prior to his/her recruitment. Compulsory national service and/or short stays such as holidays are not taken into account.
- **Qualifications and research experience:** The applicant must fulfill the requirements defined for Early-Stage Researchers (ESRs): ESRs are researchers who, at the time of recruitment, have NOT yet been awarded the doctorate degree and are in the first 4 years (full-time equivalent) of his/her research career.

Working conditions

- **Contract duration:** 20 months (ITN) + 16 months (CSIC) + possible extension by 12 months (CSIC)

Institute of Environmental Assessments and Water Research (IDAEA-CSIC)
c/ Jordi Girona, 18-26. 08034, Barcelona (Spain)
www.idaea.csic.es

- **Estimated annual gross salary:** The successful candidate will receive for the first 20 months a salary in accordance with the MSCA regulations for early-stage researchers. The exact salary will be confirmed upon appointment and is dependent on the country correction factor (to allow for the difference in cost of living in different EU Member States). The salary includes a living allowance, a mobility allowance and a family allowance (if married). For the remaining 16 months, the annual gross salary will be approx. 30.000 Euro.
- **Target start date:** 1 April 2023

How to apply?

Those interested may email their **CV**, a **motivation letter** and **contact information of two academic reference** to **Dr Marco Dentz** at marco.dentz@.csic.es stating **PhD Mixing** in the email subject.

Deadline: open until filled