



PhD Position in Forecasting Induced Seismicity

The role

We offer a 3-year PhD position for developing predictive models of induced seismicity as a result of fluid injection/extraction related to low-carbon geo-energies: geothermal energy, geologic carbon storage and subsurface energy storage. The position is related to the ERC-StG project G_EoREST (predictinG EaRthquakES induced by fluid injeCtion) (www.georest.eu), funded by the European Research Council (ERC, <https://erc.europa.eu/>). The candidate will perform her/his research at the Spanish National Research Council (CSIC) in a collaborative and enthusiastic environment.

What do we look for?

- **Qualifications**

Candidates should have knowledge on big data analysis, machine learning and programming, as well as on geomechanics and/or geotechnical engineering, hydrogeology and seismology. We will value scientific publications in international journals and participations in conferences.

- **Professional experience**

Holding a MSc is a requirement, preferably in Engineering, Mathematics or Physics. The issue data should be within the last 3 years.

- **Competences**

We are looking for highly motivated, perseverant and creative individuals with strong analytical and problem solving skills willing to leave their footprint on science. The candidate will be integrated into an international team, so good communication skills and team working capabilities are required. Excellent level of English, both written and oral, is a requirement.

Working conditions

- **Contract duration: 3 years**
- Estimated annual gross salary: 20.690 €/year
- Target start date: 01/03/2021

The group

The candidate will join an interdisciplinary group of young researchers from several nationalities (<https://www.georest.eu/content/team>). Apart from the group members, the candidate will have access to the international network of the group and will group in collaboration with foreign universities and research centers.

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, membership on 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 recently awarded with the distinctive **Centre of Excellence “Severo Ochoa”** (2020-2023), distinction that indicates the 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**, **motivation letter** and contact details of two reference people to **Víctor Vilarrasa** at erc.georest@gmail.com, adding PhD position GEOREST to the email subject.

Deadline: 6th January 2021