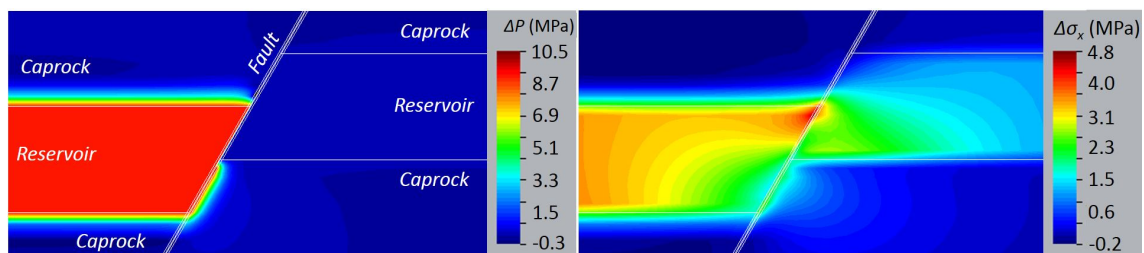


PhD Position in Coupled Processes in Fractured Rock

Interested in contributing to the transition towards a low-carbon future? Join us in advancing our understanding of the subsurface processes that underpin safe and sustainable deployment of geo-energy technologies.

We offer a 4-year PhD position aimed at advancing the understanding of coupled processes, with particular emphasis on geochemical and geomechanical interactions in fractured rock induced by fluid injection/extraction. The research will focus on processes relevant to low-carbon geo-energy technologies, including geothermal energy, geologic carbon storage, and subsurface energy storage.

The position will be part of the NetDyn project (Connecting network structure to dynamics: Flow, transport and geomechanical processes in the heterogeneous subsurface for green energy technologies), funded by the Spanish Research Funding Agency (AEI). The PhD research will be supervised by Prof. Victor Vilarrasa and Dr. Iman Rahimzadeh Kivi. The position offers a gross annual salary of approximately €22,000. The candidate will perform their research in a collaborative and enthusiastic environment at the Mediterranean Institute for Advanced Studies (IMEDEA), a María de Maeztu Center of Excellence and joint research institute between the Spanish National Research Council (CSIC) and the University of the Balearic Islands (UIB).



QUALIFICATIONS

We are looking for a highly motivated, perseverant, and creative candidate with strong analytical and problem-solving skills willing to leave their footprint on science. Candidates should hold a MSc in Engineering, Physics, Geoscience, or a related discipline, and have good knowledge on geomechanics and/or geotechnical engineering, geochemistry and hydrogeology.

Experience in numerical modelling and programming will be appreciated. Experience in the processing and interpretation of experimental data would also be an advantage. Additionally, we will value scientific publications in international journals and participation in conferences. The candidate will be integrated into an



international research team; thus, good communication skills and team working capabilities are required. An excellent level of English, both written and oral, is a requirement.

APPLICATIONS

If you are interested, please submit your application, including your CV, English certificate, a cover letter describing your motivation for applying and highlighting your relevant qualifications and experience, and the contact details of two referees, to Victor Vilarrasa (victor.vilarrasa@csic.es) and Iman Rahimzadeh Kivi (iman.rahimzadeh@uib.es), by 31st of October 2026.

Selection will be performed on the basis of the excellence of the CV and motivation.