HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT AND INVESTMENTS
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION

FORTH
FOUNDATION FOR RESEARCH & TECHNOLOGY - HELLAS
INSTITUTE OF GEOENERGY

P.N. 89138_21/09/2022

One (1) Early – stage Researcher (ESR) Position – PhD Student [EYZ00022_02]

The Institute of Geoenergy (FORTH/IG) invites applications for an Early – stage Researcher (ESR) – PhD Student position within the EU funded research project entitled "Twinning to sustainable energy transition"- Acronym: TWINN2SET (GA No 101079246) (https://ig.forth.gr/event/146).

Position:
One (1) Early – stage Researcher – PhD Student in Chemical and/or Mineral Resources Engineering

Position Description:
The position is a full-time PhD student position and is funded by European Commission, under the under Twinning (HORIZON-WIDERA-2021-ACCESS-03).
The TWI2SET project consists of a capacity building & mentoring programme in the domains of 1) Carbon Capture and Storage (CCS), 2) Deep Geothermal Energy and 3) Subsurface Hydrogen Storage. The work will be complemented by an exploratory project focusing on Hydrogen storage in Geological formations, fostering interdisciplinary competencies at the interplay of a promising energy vector with subsurface reservoir characterisation, modelling and monitoring. Geosciences play a fundamental role in research activities tackling new energy transition themes through the use of underground resources.
The PhD student is expected to contribute to the development of innovative efficient technologies for hydrogen and CO2 storage into geological formations. Relevant tasks will involve the determination of the spatial distribution of porosities and permeabilities, the investigation of alterations in the petrophysics properties of reservoir rocks and evaluation of effective migration of gases through porous media (eg. salt caverns). The candidate will also assist to the development of an advanced High Temperature High Pressure (HTHP) lab facility capable of performing rock & fluid lab experiments, test and analysis. Candidates should have secured a PhD position in a Greek University.

Required qualifications:

- MSc Degree in Mineral Resources Engineering or Chemical Engineering
- Lab experience in HP-HT thermodynamic and core flooding experiments
- Communication skills
- Two potential referees

About the new position:
The successful applicant will be expected to join a multidisciplinary team of scientists with expertise in engineering, geology, chemistry and biology, and participate in technology transfer events and workshops, contribute to the broad dissemination of science and the project objectives, grant-applications and preparation of research articles. Place of research: FORTH/IG premises in the University Campus, in Chania, Greece.

Contact information:
The project coordinator is Assistant Researcher Dr. Emmanuel Stamatakis
(E-mail: estamatakis@ipr.forth.gr; Phone: +30 2811392203).

Contract Duration: 34 months
Envisaged starting date: 1/12/2022
Application submission: Interested candidates should submit their application electronically (ipr@ipr.forth.gr and estamatakis@ipr.forth.gr) by **October 31st 2022 @ 13:00 (Greek time).**

European Commission | Horizon 2020
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for Research & Innovation