

Search for a Spanish Partner for a Bilateral R&D Project

Organization	
Date of Request:	15-09-2026
Company name:	Egyptian petroleum research institute, Cairo, Egypt
Contact person and title/ designation:	Mona Safina Mohamed Mansour, associate Prof., Dr.
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SECTION 1: Entity launching the partner search

(Please give brief / to the point explanations. For more explanation on any point below, you may add a short paragraph as an annexure, with this document.)

Sector	Governmental Public Research Sector
Entity mission or core functions	National petroleum industry with studies, scientific research work, consultations, analytical and technical services, individually or together with other parties
Date of establishment	1974
Ownership (if public and traded, add stock exchange and ticker symbol)	Governmental
Total number of employees	4000
Number of employees in R&D	2500
Key products sold or services provided	Scientific and technical advising and development, chemicals for petroleum sector
Entity core technical competences	Development in scientific and petroleum sectors (oil and gas)
Key R&D programs and activities	Development in scientific and petroleum sectors (oil and gas)
Examples of accomplishments	Consultant in petroleum sector, chemicals production for petroleum sector
Company strategic orientation	Governmental

SECTION 2: Spanish Company Profile

(Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)

Profile of ideal technology partner	- Establish and implement the proposed petroleum wastewater treatment reactor - Helping in Modeling and Optimization - Data Integration and System Simulation - Technology Transfer and Training - Scale up the proposed prototype
Core technological competencies and expertise	Expertise in the field of petroleum wastewater treatment, wastewater treatment reactors design and implementation, optimization of petroleum wastewater treatment specially produced water.
Other essential qualifications (e.g.: ownership, track records etc.)	Scientific and /or technical researchers
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	I don't have any.
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	Produced water in the petroleum sector is an issue but if it is ideally treated it could be reused as a reinjection water to enhance oil recovery.
Interested areas of collaboration	Produced water treatment via different treatment techniques. Construction of a reactor for the treatment for integrated systems.
Specific R&D contribution you are seeking/offering	Scientific and technical partnership in the present call of cooperation.

Mona Mansour

Signature

Name: Mona S. M. Mansour, Assoc. Prof. Dr.

Date: 15-09-2026

Produced water treatment using Egyptian prototype

Joint summary

Produced water generate as a byproduct of oil and gas field. Produced water is highly contaminated with organic, inorganic pollutants, and heavy metals. Discharge of such kind of wastewater without adequate treatment will affect on the environment and human health. Therefore, the treatment of such kind of wastewater is double benefits, protect the environment and provide water for further reuse. Single treatment for such kind of wastewater isn't efficient due to different types of contaminants. The integration of several processes is the best solution for produced water treatment. Here we proposed an integrated sustainable Egyptian prototype for the treatment of the produced water. Optimization of the prototype and AI techniques will be applied in order to use such prototype with different produced water that collected from different locations.

Scale up of the prototype in the petroleum company will solve sever environmental issues and concern of the discharge of the produced water, also the treated produced water could be reuse to enhance oil recovery.