

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

Organization	
Date of Request:	2/10/2026
Company name:	National Institute of Oceanography and Fisheries, NIOF, Egypt
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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	Oceanography, Fisheries, Phycology, Aquatic Sciences, and Sustainable Aquaculture
Entity mission or core functions	The National Institute of Oceanography and Fisheries (NIOF) conducts scientific research and provides technical expertise in oceanography, fisheries, aquatic resources, aquaculture, and marine and freshwater environmental sciences, supporting sustainable development and innovation in these fields.
Date of establishment	1928
Ownership (if public and traded, add stock exchange and ticker symbol)	Public research institution under the Egyptian Ministry of Higher Education and Scientific Research.
Total number of employees	Total NO of Employees 1101
Number of employees in R&D	513 researcher stuff (R&D)
Key products sold or services provided	Scientific research, technical and consultancy services, laboratory analyses, environmental studies and assessments of marine and freshwater aquatic ecosystems and resources, aquaculture research and development, and development of innovative technologies and applications related

	to aquatic resources.
Entity core technical competences	Oceanography, fisheries science, aquaculture, aquatic biology, hydrobiology, algal biotechnology, microalgae cultivation and utilization, aquatic environmental assessment, and development of sustainable applications of aquatic biological resources.
Key R&D programs and activities	Research and development in microalgae cultivation and biotechnology, aquaculture and aquatic animal production, fisheries and aquatic resources, environmental monitoring, bioactive compounds and value-added products from aquatic biological resources, and sustainable production technologies.
Examples of accomplishments	Development of research and pilot-scale applications related to microalgae cultivation and utilization, including biomass production, algal-based products, biodiesel production, bioplastic production, extraction of bioactive compounds for use as food and feed additives, and extraction of compounds with potential applications in pharmaceutical and cosmetic products.
Company strategic orientation	To strengthen applied research, innovation, technology development, and knowledge transfer in oceanography, fisheries, aquaculture, and sustainable utilization of aquatic biological resources, with increased collaboration with national and international research and industrial partners.

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	A Spanish industrial company with demonstrated R&D and industrial experience in the development, formulation, stabilization, production, and commercialization of functional nutritional products, feed additives, probiotics, microalgae-based products, or related products for poultry and animal production.
Core technological competencies and expertise	Expertise in probiotic technologies, functional feed additives, liquid formulations, microalgae-based products, formulation optimization, stabilization and shelf-life improvement, quality control, pilot-scale production, process scale-up, and product development for animal nutrition.

Other essential qualifications (e.g.: ownership, track records etc.)	Established industrial experience in animal nutrition, feed additives, probiotics, or related biotechnology products; demonstrated experience in R&D and technology development; access to appropriate formulation, analytical, quality-control, and pilot or industrial production facilities; and experience in commercialization and market-oriented product development.
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	No specific company has been selected at this stage
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	The collaboration will focus on the joint development of a standardized, stable, and scalable liquid nutritional supplement for poultry based on <i>Arthrospira platensis</i> biomass and selected beneficial probiotic bacteria. The Egyptian partner will contribute expertise in microalgal cultivation, biomass characterization, formulation development, and biological evaluation, while the Spanish industrial partner will contribute complementary expertise in formulation, stabilization, quality control, scale-up, pilot or industrial production, and commercialization.
Interested areas of collaboration	Microalgae cultivation and biomass production; probiotic selection and application; formulation development; microalgae–probiotic compatibility; liquid formulation and stabilization; shelf-life evaluation; quality control; pilot-scale production; process scale-up; biological validation; and commercialization of the resulting product.
Specific R&D contribution you are seeking/offering	Seeking: Spanish industrial expertise in probiotic technologies, formulation and stabilization of liquid nutritional products, quality control, pilot and industrial scale-up, production process development, and commercialization. Offering: Egyptian expertise in <i>Arthrospira platensis</i> cultivation and characterization, microalgal biomass production, formulation research, biological evaluation in poultry,

	and local research and implementation capabilities.
Project Summary The poultry industry in Egypt represents a large and important market and faces significant challenges related to feed costs and availability, nutritional supplementation, disease pressure, and environmental and production stresses that may affect feed intake, nutritional status, growth, and immune competence of poultry. These challenges highlight the need for sustainable and effective nutritional solutions that can complement conventional feeding and support poultry production. AlgoPro-P aims to develop a standardized, stable, and scalable liquid nutritional supplement based on <i>Arthrospira platensis</i> biomass and selected beneficial probiotic bacteria. The liquid format is intended to provide a complementary route for delivering nutrients and functional components, particularly during periods when conventional feed consumption may be reduced. The project will integrate controlled microalgal cultivation and biomass characterization with probiotic selection, formulation development, microalgae–probiotic compatibility, stabilization, shelf-life evaluation, and biological validation in poultry. The Egyptian partner will contribute expertise in microalgal cultivation, biomass production, characterization, and biological evaluation, while the Spanish industrial partner will provide complementary expertise in formulation, stabilization, quality control, scale-up, production, and commercialization.	

Signature

Name: Amr Mahmoud Helal

Date: 5/10/2026