

**Search for a Spanish Partner for a
Bilateral R&D Project (this document will be shared with potential Spanish
companies)**

Organization	
Date of Request:	17 October 2026
Company name:	Menoufia University, Shebin El-Kom, Menoufia, Egypt (Faculty of Pharmacy, Pharmaceutical Analysis Department)
Contact person and title/ designation:	Hany A. Batakoushy, Associate Professor at Menoufia University
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SECTION 1: Your Company Profile

(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.)

Business Sector	Higher education and scientific research (public university).
Company mission or core functions	Provide higher education and applied research, develop human resources, and serve the scientific, technological, and societal needs of Menoufia Governorate and Egypt, through partnerships with industry and international institutions.
Date of establishment	1976
Ownership (if public and traded, add stock exchange and ticker symbol)	Public (Egyptian state university). Not publicly traded.
Total number of employees	Approx. 4,000 academic and assisting staff
Number of employees in R&D	All academic staff are research active. Proposing research group: 2500 researchers / 500 PhD and 1000MSc students
Key products sold or services provided	Undergraduate and postgraduate education across more than 20 faculties and institutes (including Science, Pharmacy, Engineering, Electronic Engineering, Medicine and Agriculture); scientific research; technical consultancy and analytical/testing services; training and method validation.
Company core technical competences	Analytical chemistry and sensor development for pharmaceutical and environmental analysis: - Electrochemical (Photonic) sensors using porous silicon, e.g. MOF, MIP and nanocomposite-modified

	carbon paste electrodes. - Fluorescence sensors and probes, including carbon/quantum dots from biomass. - Colorimetric methods. - Synthesis and characterization of nanomaterials (XPS, SAED, EDX/mapping, photoluminescence). - Experimental design (e.g. Box-Behnken) and green analytical chemistry assessment (AGREE, BAGI, RAPI).
Key R&D programs and activities	Development of low-cost, sensitive and green sensing methods for drugs, dyes and environmental pollutants; nanomaterial-based sensing platforms; method validation and application to real samples (pharmaceutical formulations, biological and environmental samples).
Examples of accomplishments	Peer-reviewed research on electrochemical and fluorescence sensors and green analytical methods. More than 50 international articles and completed two projects.
Company strategic orientation	Link academic research to industry and societal needs; promote sustainable and green analytical technologies; strengthen international partnerships (research collaboration, joint projects, researcher and student exchange); support technology transfer and innovation.

SECTION 2: Partner of Interest

(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	Spanish company (SME or mid-size) with an R&D department in analytical instrumentation, sensors, pharmaceutical/biotech quality control or advanced materials, interested in applied joint R&D with an academic partner.
Core technological competencies and expertise	Sensor platforms and electrochemical/optical instrumentation (e.g. screen-printed electrodes, portable potentiostats, portable fluorescence/colorimetric readers); nanomaterial production and functionalization; analytical method validation; device miniaturization and prototyping.
Other essential qualifications (e.g.: ownership, track records etc.)	Track record in national or European R&D projects; quality systems (e.g. ISO 17025 or GMP) or experience with regulated sectors; willingness to share IP fairly and to co-author publications; capacity for pilot-scale validation.
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	1- Werfen, S.A. Plaza de Europa 21–23, 08908 L'Hospitalet de Llobregat, Barcelona, Spain immunoassay@werfen.com 2- BioSystems – Diagnostics BioSystems S.A., Carrer de la Costa Brava, 30, 08030 Barcelona, Spain

	customersupport@biosystems.global
If you are interested in collaboration, please specify details and other important information you want to share with a potential company	Joint development of portable, low-cost and green sensors for pharmaceutical quality control and environmental monitoring, moving from laboratory proof of concept to a validated prototype; joint proposals for national/EU funding; exchange of researchers and students; joint publications and shared IP.
Interested areas of collaboration	Developing a photonic biosensor for detection of cardiac biomarkers
Specific R&D contribution you are seeking/offering	Offering (university): design of the sensing platform including chemistry, synthesis and characterization of nanomaterials, method development and validation, experimental optimization, application to real samples. Seeking (Spanish partner): device engineering and miniaturization, scale-up and manufacturing of sensor platforms, industrial validation, and access to markets for developing a photonic sensor using porous silicon



Signature

Name: Hany A. Batakoushy

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