

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

Organization	
Date of Request:	April 21, 2024
Company name:	Badr University in Cairo (BUC), Egypt
Contact person and title/ designation:	Dr. Amany Aly Researcher / lecturer - Principal Investigator (PI)
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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	<ol style="list-style-type: none"> 1- Private university with R&D center. 2- Private company in the healthcare services.
Entity mission or core functions	<ol style="list-style-type: none"> 1- BUC is a private university student-centered learning providing a high-quality education with advanced research field. It includes over 16 schools from different disciplines including medicine and pharmacy, dentistry, physiotherapy, and nursing schools. 2- Egyptians Healthcare Services (EHCS) offers healthcare services in the fields of construction, development, and administration, to the Egyptian market. (e.g., managing three primary healthcare facilities owned by the Egyptian government)
Date of establishment	2014 (both)
Ownership (if public and traded, add stock exchange and ticker symbol)	Owned by a private sector (both)
Total number of employees	1722 employees (BUC) 250 employee (EHCS)
Number of employees in R&D	~130 researchers
Key products sold or services	The BUC is one of the largest private universities

provided	in Egypt, offering degrees and programs accredited by the Supreme Council of Universities in Egypt.
Entity core technical competences	<ol style="list-style-type: none"> 1. Well-established Infrastructure that facilitates interdisciplinary research at BUC. 2. Existence of high-tier researchers at BUC. 3. Capital Med, a part of BUC campus that is under construction, provides a huge medical facility for training of BUC students in healthcare sector, and for BUC researchers to perform high-quality research. 4. At least four mega industrial hubs within 30 km away from BUC.
Key R&D programs and activities	<p>Specific research areas that cover multiple disciplines at BUC include:</p> <ol style="list-style-type: none"> 1- Life Sciences and Global Health (pharmaceutical technology and precision medicine, neurological disorders and rehabilitation, clinical pharmacy, diagnostics and applied cancer, and infectious diseases research). 2- Engineering (<i>e.g.</i>, renewable and clean energy and water resources) 3- Agriculture and Food Security (<i>e.g.</i>, biotechnological innovation and food safety) 4- Humanities, Social Sciences and Community Development (<i>e.g.</i>, smart city and city livings, urban design and planning, health economics and legislation)
Examples of accomplishments	<p>Securing several national and international grants. Awarded several national and international awards and recognitions (<i>e.g.</i>, gold medal of the Geneva International Exhibition, State Award of Excellence).</p>
Company strategic orientation	<p>In agreement with the national strategic plan “Egypt Vision 2030”, BUC’s commitment to research and innovation aims to place BUC as one of leading universities in the research field. This will help to provide the highest-quality learning opportunities for our students through cutting-edge interdisciplinary research that aims to provide solutions to national and international challenges related to health, science, and humanities.</p> <p>The Interdisciplinary Scientific Research Center and the new initiative the Healthy Aging</p>

	<p>Research -BUC center (HARBC) was established to provide diverse instrumentation and expertise for researchers in fields ranging from biological and medical sciences, advanced studies in genetic engineering, stem cells research, chemistry, physics, and engineering, facilitating and advanced Aging research.</p> <p>their researchers are encouraged to pool their knowledge and skills, ensuring they have every opportunity to make the next breakthrough.</p>
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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	Companies in the field of developing software applications to screen and identify health problems in the healthcare sector.
Core technological competencies and expertise	This project aims to develop a software application for an existing validated frailty measuring tool. The app's goal is to identify people who are pre-frail or frail. Patients' information systems (PIS) could potentially incorporate this application as a screening tool to identify frail elderly individuals during hospital admission or interactions with healthcare institutions. Individuals should also use the software for mobile applications.
Other essential qualifications (e.g.: ownership, track records etc.)	Having experience in building screening and measuring software applications for identifying physical, mobility, and cognitive problems would be beneficial for the Spanish partner.
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	<p>Spanish partner in the field of healthcare IT for example:</p> <ol style="list-style-type: none"> 1- Dycare 2- Mediktor 3- Eurecat 4- Qualud 5- Iomed 6- Click4.Health
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	<p>We are planning to conduct a three phases project:</p> <p>Phase (1) To develop a software application for the Pictorial Fit-Frail Scale (PFFS) to identify and assess frailty among older Egyptians.</p>

	<p><u><i>This application will be used as a frailty measurement tool for phases 2 and 3 of the project.</i></u></p> <p>Phase (2) To investigate the prevalence of pre-frailty and frailty and associated factors using the PFFS app among the older Egyptian population: an across sectional study.</p> <p>Phase (3) To Assess the Effects of a Multifactorial Intervention on the Physical and Cognitive Functions of Frail Elderly Individuals: A Randomized Controlled Trial.</p>
Interested areas of collaboration	<p>We are interested in developing an electronic/ digital app that will help patients/healthcare providers to identify pre and frail older. We are looking for companies working in the field of developing digital applications.</p>
Specific R&D contribution you are seeking/offering	<p>We are seeking a manufacturing firm that is prepared to provide their expertise, guidance, and experience for the proposed project. Particularly in developing software applications using a current hard copy tool to scan and identify frail older Egyptians. We expect that the Egyptian partner will receive consistent communication and support, particularly in the development, implementation, and evaluation of the application. As well as training the Egyptian partner on using the app, this will be required throughout the duration of the project. We will regularly provide our research findings to our Spanish partner in a comprehensive and up-to-date manner. Furthermore, we would like to express our appreciation to our esteemed Spanish collaborator for their contribution to our research papers.</p> <p>We anticipate that this relationship will serve as the foundation for future geriatric research between the two countries.</p>

Signature 

Name: Amany Aly
Date: April 21, 2024