

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

Organization	
<b>Date of Request:</b>	02/02/2022
<b>Company name:</b>	Central Metallurgical Research & Development Institute (CMRDI)
<b>Contact person and title/ designation:</b>	Dr. Mohamed Wahba/Researcher
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SECTION 1: Your Company Profile	
Business Sector	Scientific Research
Company mission or core functions	To enhance the competitiveness of the Egyptian industry for the welfare of the society.
Date of establishment	1983
Ownership (if public and traded, add stock exchange and ticker symbol)	Public research institute
Total number of employees	400+
Number of employees in R&D	200+
Key products sold or services provided	<ul style="list-style-type: none"> <li>• Research projects</li> <li>• Technology transfer</li> <li>• Industrial consultations</li> </ul>
Company core technical competences	CMRDI has maintained its commitment to grow as a pioneering leader in the fields of materials and manufacturing technologies. Besides to the qualified staff, CMRDI is comprehensively equipped with conventional and non-

	<p>conventional facilities including laser technology, 3D manufacturing, vacuum melting and investment casting. CMRDI has a longstanding and successful collaboration with many overseas R&amp;D institutions, which helped in the achievement of more than 300 industrial development projects on contractual basis in the last decade.</p>
Key R&D programs and activities	<ul style="list-style-type: none"> <li>• Manufacturing technology</li> <li>• Advanced materials</li> <li>• Minerals technology</li> </ul>
Examples of accomplishments	<ul style="list-style-type: none"> <li>• Manufacturing of turbine blade in cooperation with Engine Factory</li> <li>• Manufacturing of engine block for ISUZU Egypt</li> <li>• Manufacturing of Ni-Ti alloy for medical applications</li> </ul>
Company strategic orientation	<ul style="list-style-type: none"> <li>• Continuous training of staff</li> <li>• Upgrading facilities and equipment</li> <li>• Promoting bilateral collaboration with national and international partners</li> <li>• Strengthening relationships with industrial partners</li> </ul>

## SECTION 2: Partner of Interest

Profile of ideal technology partner	Industrial partner with significant R&D activities and international cooperation projects
Core technological competencies and expertise	Translating technology research into real world applications in the field of welding or additive manufacturing
Other essential qualifications (e.g.: ownership, track records etc.)	International cooperation
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	

<p>If you are interested in collaboration: please specify details and other important information you want to share with a potential company</p>	<p>We seek collaboration on a research project in the field of material welding or additive manufacturing with the main target of promoting the local manufacturing capabilities through exchange of knowledge and expertise.</p> <p>We would like to investigate one of the following topics:</p> <ul style="list-style-type: none"> <li>• Hot-wire TIG welding of heat resistant steel</li> <li>• Laser welding with filler wire of duplex stainless steel</li> <li>• Wire arc additive manufacturing of steel and aluminum components</li> <li>• Ultrasonic welding of dissimilar metals</li> </ul>
<p>Interested areas of collaboration</p>	<p>Welding technology (laser welding, arc welding, solid-state welding) Wire arc additive manufacturing</p>
<p>Specific R&amp;D contribution you are seeking/offering</p>	<p>Specific contributions of both sides will be discussed and determined considering the capabilities and interests of partners.</p>



**Signature**

**Name: Mohamed Wahba**

**Date: 02/02/2022**