

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

Organization	
Date of Request:	8 Feb., 2020
Company name:	National Research Centre (NRC)
Contact person and title/ designation:	Prof. Gamal A. Khater - Professor
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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	Research and development
Company mission or core functions	The NRC mission is to conduct basic and applied research within the major fields of industry, health, environment, agriculture, basic sciences and engineering in order to develop production and services sectors.
Date of establishment	1956
Ownership (if public and traded, add stock exchange and ticker symbol)	The National Research Center is a government agency affiliated with the Ministry of Higher Education and Scientific Research.
Total number of employees	~ 7000
Number of employees in R&D	4735
Key products sold or services provided	Medical services Industrial products Agricultural products Pharmaceutical products Environmental services Energy activities Development and evaluation of natural materials

<p>Company core technical competences</p>	<p>Technical competencies include the following areas:</p> <ul style="list-style-type: none"> Medical services Industrial products Agricultural products Pharmaceutical products Environmental services Energy activities Development and evaluation of natural materials
<p>Key R&D programs and activities</p>	<p>There are many projects in each division running in collaboration with the Ministry of Higher Education and Scientific Research and the Ministry of Trade and Industry. Specifically, I am mentioning here the projects of my division; Inorganic Chemical Industries Division:</p> <ul style="list-style-type: none"> • Using of industrial wastes like slage and glass cullet to produce ceramics materials with high mechanical and abrasive resistance for building gladding and floor covering. • Production of cordierite and / or mullet bodies as ceramic mufflers for automobile industry from Egyptian raw materials and design of production line • Production of insulation refractoriness from local raw materials • Maximize gypsum ores utilization and improve their economic and investment values • Preparation of ultra fine barium titivates and characterization of their ceramic sintered bodies • Preparation of Al-Na silicate compositions (Zeolites) • Utilization of industrial and non-industrial waste materials in road constructions and ballasting for rail ways • Preparation and Characterization of Bioactive Bone Cement. • A review of the environmental factors leading to the deterioration of carbonate rocks used for building and ornamental purposes in Egypt.
<p>Examples of accomplishments</p>	<p>Examples of some achievements</p>

	<p>Development of some industries in the field of glass and ceramic industries</p> <p>The development of some textiles</p> <p>Utilization of industrial waste</p> <p>Development of some agricultural products</p> <p>Development in the field of pharmaceutical industries</p>
Company strategic orientation	The NR Chas to correspond to the country's key production and services sectors through the research conducted in different areas of science and technology, scientific consultation and training as well.

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	Ceramics, Frit and Porcelain Industries
Core technological competencies and expertise	Ceramics, Frit and Porcelain Industries
Other essential qualifications (e.g.: ownership, track records etc.)	<p>The following qualifications are required:</p> <ul style="list-style-type: none"> • Specification of raw materials • Batch preparation • Feasibility study • Performance testing • Design study • Fracture diagnosis • Materials quality control • Contamination identification • Labels, decorations and closures • Line audits • Training seminars
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	<ol style="list-style-type: none"> 1. Spain Ceramics World. S.L. 2. G.Vega Cerámica. 3. Porcelanosa Sevilla.
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	Certainly I am interested in cooperating with a Spanish industrial partner who has experience in the field of ceramics, frit and porcelain industries to produce a new product of natural raw materials called glass marbles with distinct technological properties and low costs that can be used as a substitute for marble and granite.
Interested areas of collaboration	Manufacturing of Ceramics, Frit and

	Porcelain materials from natural raw materials and industrial wastes.
Specific R&D contribution you are seeking/offering	<p>I already have preliminary products from Egyptian natural raw prepared in my laboratory. I need a manufacturer to assist me to develop these products and produce it in an industrial scale.</p> <p>This product is superior to marble and granite in most properties, and thus can replace them as it is characterized by its low cost. Attached is a picture of these products and brief about it.</p>

G.A. Khater

Signature

Name: Gamal A. Khater

Date: 8 Feb.2020