

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

Organization	
Date of Request:	16 May 2026
Company name:	Pioneers of Industry for electronic systems (PIESCO)
Contact person and title/ designation:	Malek Ikhmies International Sales Manager
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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	Electronics manufacturing services
Entity mission or core functions	PCB/PCBA manufacturing, turnkey electronics manufacturing
Date of establishment	2023
Ownership (if public and traded, add stock exchange and ticker symbol)	LLC
Total number of employees	21
Number of employees in R&D	4
Key products sold or services provided	<ul style="list-style-type: none"> - PCB - PCBA - Cable harnessing - Full Build Box
Entity core technical competences	<ol style="list-style-type: none"> 1. SMT Process Excellence 2. IPC-A-610, IPC-7711/7721, and J-STD-001 compliance 3. Advanced inspection and failure analysis 4. Supply chain and component engineering professionally

	5. Traceability and data system
Key R&D programs and activities	<ol style="list-style-type: none"> 1. Manufacturing Process optimization 2. Reliability 3. Customer support R&D
Examples of accomplishments	<ol style="list-style-type: none"> 1. Competitive supply chain and order to delivery time 2. Reduced PCBA defects and failure 3. Development of automatic testing and programming
Company strategic orientation	<p>We are working to localize the manufacturing of EV chargers and EV charging technologies in the Kingdom to support manufacturers and distributors across Saudi Arabia, the GCC, and the wider Arab region. Our goal is to build strong local capabilities, improve regional supply chains, and bring advanced EV charging know-how and technology into the local market.</p>

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	<p>The ideal partner shall be product development company with full product development lifecycle experience, and at least 10 years of experience in the dedicated product development and the required technology. Providing product compliance with industry standards and delivering certified products for market.</p> <p>Core competences should incorporate in-house design teams for time bound projects and be capable of optimizing concept to market time.</p> <p>The partner shall apply rigid project management and product development methodologies. This also should include testing and evaluation methodology according to up-to-date engineering methodologies.</p>
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<p>Core technological competencies and expertise</p>	<p>The partner must specialize in:</p> <ol style="list-style-type: none"> 1. Power converter and power supplies 2. EV chargers. 3. Enclosure design for the dedicated products 4. Hardware design and firmware programming 5. Charging methodologies, protection, and dynamic loads 6. Protection and isolation 7. Thermal flow design 8. Product design cost and size optimization 9. Wired / wireless communication protocol 10. OTA update 11. EMC and RED requirements for CE. 12. Grid compliance, metering and billing 13. EV connectors: Type-I/II, GB/T, Tesla 14. DFM/DFR
<p>Other essential qualifications (e.g.: ownership, track records etc.)</p>	<p>Partner should demonstrate a history in product life cycle development preferably in the field of EV and EV charging.</p> <p>Ownership of similar/ same field patents is a plus</p> <p>Experience in the following industry standards is essential:</p> <ol style="list-style-type: none"> 1. IEC 62196-2 2. ISO 15118 3. IEC 61851 4. OCPP 1.6J / 2.0.1
<p>If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details</p>	
<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 are looking to develop a home EV charger according to the following specifications:</p> <ol style="list-style-type: none"> 1. Power: 7-22KW 2. Supply input: AC 1ph/3ph 3. Input voltage: AC 220/380v 4. Input frequency: 50/60Hz

	<p>5. Output voltage: 230/400V AC 6. Output Current: 8, 16, 32 7. Emergency Stop: yes 8. RCD Type-A 9. DC leakage detection: 6mA DC</p> <p>Integration:</p> <p>1. Output connector: Type-2 OR GB/T 2. Display: LCD 4.3-5.1” 3. Smart-Grid compatibility 4. Connectivity: Ethernet, 3G, 4G, Wi-Fi</p> <p>Environment</p> <p>1. Temperature – Operating: -20 to 60 C 2. Temperature – Storage: -40 to 70 C 3. Humidity: 5-95% non-condensing 4. Colling: Natural 5. Health: RoHS/WEEE 6. Lifetime: up to 10K cycles 7. Mechanical impact resistance: IK08</p> <p>Compatibility:</p> <p>1. EV Charging modes and PWM Control: IEC 61851 2. Electrical Safety and Protection Logic: IEC 61851 3. Connectors: IEC 62196-2 for type 2 and GB/T 20234.2 4. Communication: IEC 61851-1 basically for control pilot, and ISO 15118 Optionally, 27930 CAN Based for GB/T 5. Smart Charging: OCPP 2.0.1 (Compatible for GCC). Also, OCPP 1.6 instead is valid if customer requested. 6. Payment: OCCP: OCPP 2.0.1 (Compatible for GCC). Also, OCPP 1.6 instead is valid if customer requested. ISO/IEC 14443 for RFID. 7. Payment cyber security: TLS 1.2 / 1.3 if OCPP 1.6 used. 8. EMC: IEC 61000 9. Mechanical Safety: IEC 62196</p>
Interested areas of collaboration	
Specific R&D contribution you are seeking/offering	Seeking: Full product hardware and software development.

	<ol style="list-style-type: none">1. Dynamic load balancing, no fault charging2. Smart charging time compromising load, cost, and user preferences3. Solar power integration: smart programable solar power charging: solar only, solar surplus, hybrid4. Battery health analysis <p>Offering: PCB and PCBA manufacturing, operational testing and obtaining SASO Approval or any related certifications for Saudi Market</p>
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Signature

Name: **Dr.Ahmed AlThuhaibi**

Date: **25-05-2026**