

**JOB OFFER**

# LABORATORY TECHNICIAN

**Position offered: Catalysis and Adsorption Laboratory Technician**
**Date of offer: Web Publication**
**Project: CIIAE-REF. TL-CATADS (HIDRÓGENO Y POWER-TO-X)**
**Department: Hidrógeno y Power-to-X**
**Expected date of entry: 1<sup>st</sup> Quarter 2024**

<b>Work centre:</b>	University of Extremadura. Cáceres Campus	
<b>Tasks to be developed:</b>	<ul style="list-style-type: none"> <li>- Maintenance of laboratory equipment, ensuring its correct functioning and managing communication with the companies in charge of troubleshooting.</li> <li>- Training and assisting scientific staff (predocs, junior researchers, senior researchers, other technicians, etc.) in the safe use of equipment and laboratories.</li> <li>- Ensure good practices that guarantee order and cleanliness in the laboratories.</li> <li>- Assist scientific staff in the acquisition of new equipment, consumables, etc.</li> <li>- Ensure uninterrupted supply of centralized gas, e.g. by monitoring gas consumption and managing the replenishment of new cylinders.</li> <li>- Manage and organize the contents in warehouses, workshop and reagent cabinets.</li> <li>- Organize inventory tasks necessary to control the stock of consumables (reagents, personal protective equipment (PPE), consumables, etc.).</li> <li>- Management of maintenance and calibration operations of laboratory equipment requiring this type of action, such as balances, pipettes, etc.</li> <li>- Elaboration of experimental tasks such as analysis standards, sample weighing, preparation and analysis of gas adsorption isotherms, for example.</li> <li>- Management of waste generated in the laboratory.</li> </ul>	
<b>Duration of the contract and/or total financial envelope:</b>	September 2025 with the possibility of extension	Gross Salary + S.S. contributions Technician 2: 24,500-27,100 €
<b>Academic background required:</b>	The minimum requirement is a vocational training qualification as a laboratory technician, specialising in laboratory analysis, chemistry or similar.	
<b>Other training would be an asset:</b>	<ul style="list-style-type: none"> <li>- Computer or electronics courses.</li> <li>- Microsoft Office skills.</li> <li>- Databases.</li> <li>- Knowledge of R&amp;D in the field of energy storage.</li> </ul>	
<b>Professional experience:</b>	<ul style="list-style-type: none"> <li>- Experience as a laboratory technician (including internship) in high school, university or industry in areas related to chemistry and the safe use and handling of solid, liquid and gaseous substances, e.g. flammable substances such as hydrogen or toxic substances such as carbon monoxide.</li> </ul>	
<b>Requirements for the post:</b>	Specific techniques (analytical, software, calculations, prototyping, etc.)	Experience or knowledge in the use of any of the following analytical and characterisation techniques is required: <ul style="list-style-type: none"> <li>- gas adsorption for the determination of textural properties (BET, pore volume, DTP)</li> <li>- thermogravimetric analysis (TGA)</li> <li>- structural and chemical analysis of solids such as X-ray diffraction (XRD), X-ray photoelectron spectroscopy (XPS),</li> <li>- infrared (FTIR, DRIFTS) and Raman spectroscopy, or chemical analysis.</li> </ul>
	Languages	- English
	Cross-cutting competences	<ul style="list-style-type: none"> <li>- Communication skills</li> <li>- Organisation</li> <li>- Problem solving</li> <li>- Ability to work in a diverse, multicultural, flexible, academic, team-oriented and independent environment.</li> </ul>
	Willingness to travel	Occasionally

<b>Valuable</b>	<ul style="list-style-type: none"> <li>- 2 years of experience as a research laboratory technician in chemistry or industrial laboratory.</li> <li>- Experience in construction, commissioning or operation of reactors and laboratory scale facilities.</li> <li>- Knowledge of personal protective equipment (PPE).</li> <li>- Knowledge of fittings and valves. Gas piping systems, pressure regulators and cylinders.</li> <li>- Experience in start-up or operation of pilot plants.</li> <li>- Knowledge of Spanish or Portuguese.</li> <li>- Knowledge of English to interact in the work environment or level equivalent to B2.</li> <li>- Experimental skills in the synthesis of chemicals or materials (adsorbents, catalysts, etc.).</li> <li>- Experience with analytical techniques such as x-ray diffraction, electron microscopy (scanning electron microscopy -SEM- or transmission -TEM), spectroscopy (FTIR, RAMAN, UV, Absorption, etc.), chemical composition (HCNS), nuclear magnetic resonance (NMR), or similar.</li> <li>- Experience with gas (GC) or liquid chromatographic techniques (HPLC) or mass spectrometry (MS).</li> <li>- Computer and electronic skills at user level.</li> <li>- LabView experience.</li> <li>- Flexibility to learn different types of software.</li> <li>- Handling of basic assembly and repair tools.</li> </ul>
<p><b>Selection Tests:</b></p> <p><b>TECHNIQUE: Oral knowledge test</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p> <p><b>Language: ORAL</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p> <p><b>JOB INTERVIEW:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p>	

**Interested candidates:**

Send all the necessary documentation included in THE RULES OF THE CALL and THE JOB OFFER, as well as THE APPLICATION FOR ADMISSION. Deadline 15 calendar days from the day after the publication on the WEB, indicating **REF. TL-CATADS (HIDRÓGENO Y POWER-TO-X)**

FUNDECYT-PCTEX (Edificio Parque Científico Tecnológico), Avda. de la Investigación, s/n, Edificio PCTEX, Campus de la Universidad de Extremadura – 06006 Badajoz (España)

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