

JOB OFFER

Research Technician (Level 2)

Position:	Research Technician Level 2 associated to the project: Regional PRI in the area of Intervention, Ecological Transition. PLASMMONIA. IB24127		
Projects:	PLASMMONIA		
Professional category:	Research Technician Level 2	Quotation group:	
Work Center:	University of Extremadura. Cáceres Campus		
Number of places:	1	Reservation percentage, if applicable:	
Department:	HYDROGEN AND POWER-TO-X		
Offer date:	DOE Publication	Deadline for submitting bids:	15 calendar days, starting from the day after publication in the DOE (Official Gazette of Extremadura)
Application for participation:	Annex I of the terms and conditions of the call for applications.		
Documents to accompany the application:	The related documents in point 5 of the Call for Proposals. In addition to the mandatory documentation listed above, the submission of the following documents will be considered: - Cover letter (maximum 2 pages) - Two references through letters of recommendation.	Application submission method for candidates:	APPLICANTS MUST SEND ALL DOCUMENTATION FOR THE POINT 5 OF THE BASES, indicating Ref. T2- PLASMMONIA (HYDROGEN AND POWER-TO-X)
Contact information for submitting applications	FUNDECYT-PCTEX (Science and Technology Park Building), Research Avenue, s/n, PCTEX Building, University of Extremadura Campus – 06006 Badajoz (Spain) E-mail: ciiae.personal@fundecyt-pctex.es www.fundecyt-pctex.es www.ciiae.org		
Estimated start date:	September 2026	Probation:	2 MONTHS
Waiting list	Yes, according to the regulations in points 9 and 10 of the Call for Proposals		
Conditions and requirements for applicants:	Those established in point 4 of the Call for Proposals		
	President: David Parra Mendoza		

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Members of the selection committee:	Secretary and member: Lucía Cordón Masero		
	Member: Juan Víctor Perales Rondón		
	Member: Liliana Analía Díaz		
	Member: Rodrigo García Muelas		
Tasks to be developed:	Within the framework of the PLASMMONIA project, a Technician Level 2 with experience in some of the following topics is needed: synthesis of materials with plasmonic properties; study of electrocatalytic systems; electrochemical activation of small molecules such as N₂; study of the performance of electrocatalytic cells. The main tasks to be performed by the researcher to be hired are the following: - Synthesis and characterization of Au and Cu-based plasmonic/electrocatalytic hybrid materials. - Study of the reaction mechanism of plasmon-assisted electrochemical nitrogen reduction (PA-eNRR) and stability of materials, using techniques such as Raman, FTIR and UV/Vis. - Evaluation of the performance of plasmonic/electrocatalytic hybrid materials using electrochemical techniques with conventional electrolytic cells. - Preparation of catalytic inks and design of the electrolytic cell for the PA-eNRR. - Evaluation of the performance of an electrolytic cell by determining key performance indicators. - Collaboration in the development of an energy system model for the PA-eNRR. - Supervision of final-year students. - Participate in group meetings and write progress reports on your research. - Working on the processing and analysis of results/data obtained in the development of laboratory tasks. - Actively participate in the writing of original scientific articles as first author or methods that are likely to be published in high-impact journals.		
Academic background:	Master's degree in materials science, electrochemistry, chemistry, chemical engineering, nanoscience and nanotechnology or similar. If you do not yet hold a master's degree but are enrolled in a program and awaiting the defense of your master's thesis, you must attach a certificate of enrollment. <u>Additionally, by the date the contract is signed, you must submit a certificate confirming the defense of your master's thesis, along with payment of the fees for the issuance of the degree certificate.</u>		
Another formation:	n/a		
Contract duration:	Maximum date until project completion (27/10/2028)		
Remuneration:	Gross Annual Salary: BS: €27,104.44	Financing:	Regional Government of Extremadura. 85% co-financed by FEDER funds
Details of the selection process: - Technical test: NO - Language: YES (will be assessed during the interview) - Job interview: YES			

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MERIT AND CURRICULAR ASSESSMENT PHASE (COMPETITION): up to 60 points	
Assessment: evaluable criteria and sub-criteria	• Specific techniques (synthesis, characterization, analysis, calculations, electrolysis, etc.) (40 points) - Theoretical knowledge and experience in the synthesis of nanoparticulate electrocatalysts. Experience in the preparation of plasmonic materials will be a plus. - Theoretical knowledge and prior experience with various structural and microstructural characterization techniques, such as X-ray diffraction, SEM, TEM, EDS, AFM, Raman, UV-Vis, FT-IR, NMR, among others. - Theoretical knowledge and/or experience of general electrochemical characterization methods for electrolyzers and/or fuel cells. - Theoretical knowledge and/or experience in the evaluation of the performance of electrocatalytic materials in electrolytic cells using electrochemical techniques. - Knowledge in ASPEN-type chemical process modeling. - Knowledge of energy technologies, including renewable energy, hydrogen, flexibility technologies and Power-to-X. • Cross-cutting skills (6 points) - Participation in collaborative scholarships/stays during the development of the degree/master's degree. • Publications: scientific articles (in journals indexed in Web of Science and/or Scopus), theses (doctoral and/or master's), conference presentations, reports, technical reports, technical guides, etc. (6 points) Academic publications as first author or co-author in journals indexed in Scopus will be highly valued. • To be assessed (8 points) - <u>Letter of motivation submitted along with the initial application for participation (maximum 2 pages).</u> - Participation and/or collaboration in R&D&I/business projects. - Master's thesis (manuscript of the work to be included in the application).
	INTERVIEW PHASE (COMPETITIVE EXAMINATION): up to 40 points • Letters of reference from two individuals with recognized experience and with whom the candidate has interacted. <u>These letters should be submitted initially with the application. (4 points)</u> • The candidate's interest in integrating into the organization and in performance of the advertised position. Willingness to travel and to stay away from the usual place of work will be considered an asset. (14 points) • Suitability of the knowledge, experience and other requirements demanded to the candidate's profile. (14 points) • Ability to work in a diverse and flexible academic environment, both as part of a team and independently. (4 points) • Communication skills in English and/or Spanish and/or Portuguese. Part of the interview must be conducted in English to assess language skills. (4 points)

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