JOB OFFER

Research Technician (Level 2)

Position:	**Research Technician (Level 2) associated with the project: "New sustainable cooling systems based on the use of BIOChar from agri-food waste in thermochemical storage cycles"**		
Project:	**BIOCALMA** (ayudas PRI, file IB24110)		
Professional category:	**Research Technician (Level 2)**	**Contribution group:**	
Work Center:	University of Extremadura. Caceres Campus		
Number of places:	**1**	**Reserve percentage, if applicable:**	
Department:	Thermal Energy Storage		
Offer date:	DOE Publication	**Deadline for submitting bids:**	**15 calendar days**, counting from the day after publication in the DOE (Official Journal of Extremadura)
Application for participation:	**Annex I of the call for proposals.**	**Form of presentation of the application for participation by applicants:**	APPLICANTS MUST SEND ALL DOCUMENTATION FROM POINT **5** OF THE RULES, indicating **Ref. T2-BIOCALMA (ALMACENAMIENTO DE ENERGÍA TÉRMICA)**
Documents to be submitted with the application:	The documents listed in **point 5 of the Conditions of the Call.**		
Contact information for sending requests	FUNDECYT-PCTEX (Science and Technology Park Building), Avda. de la Investigación, s/n, PCTEX Building, Campus of the University of Extremadura - 06006 Badajoz (Spain) Email: ciiae.personal@fundecyt-pctex.es www.fundecyt-pctex.es www.ciiae.org		
Estimated start date:	**February 2027**	**Probation:**	**2 MONTHS**
Waiting list	Yes, according to the regulations of points 9 and 10 of the Conditions of the Call.		
Conditions and requirements for applicants:	Those established in point 4 of the Conditions of the Call		
Members of the selection body:	**President: Breogán Pato Doldan**		
	Secretary and member: Cristina Cortés Gragera		
	Member: Rubén Ramos Velarde		
	Member: Aleksandr Shkatulov		

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Tasks to be developed:	One of the key technologies for boosting the use of renewable energies and developing more efficient energy systems is thermal energy storage (TES), which helps overcome the mismatch between energy production from intermittent renewable sources and variable demands/loads. In addition to sensible and latent heat systems, the use of thermochemical materials (TCMs), based on the reversible adsorption of gas molecules onto a solid, is one of the most efficient technologies for storing solar heat (e.g., CSP plants) or waste heat (e.g., energy-intensive industries). Research activities for long-term thermal energy storage have increased considerably in recent years, making it necessary to delve deeper into the techniques for preparing, characterizing, and validating new materials and designs. The selected candidate will be responsible for the following tasks (in collaboration with other researchers at the center and those responsible for the area): – Development of new TCMs for sorption cycles in TES applications. – Development of synthesis and functionalization procedures for sorbent materials. – Characterization of the main physicochemical properties of the prepared materials. – Validation testing of TES applications at laboratory and prototype scales. – Optimization of the design and performance of TCMs through experimental research to improve cycle efficiency and stability. – Writing scientific publications, participating in research events, and presenting results at international conferences.		
Academic background:	Bachelor's degree in Chemical Engineering, Chemistry, Nanotechnology, Energy Engineering, Materials Engineering, or related fields.		
Other training:	A master's degree in one of the following fields is a plus: - Chemical Engineering - Materials Science - Chemical Research and Industrial Chemistry		
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 ERDF funds**
Details of the selection process: - **Technical test:** NO - **Language:** YES **(will be evaluated during the interview)** - **Job interview:** YES			

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Evaluation: evaluable criteria and subcriteria	**Merit and curricular evaluation phase (Competition): up to 60 points**
	- Technical Skills (60) - Experience in synthesis and functionalization techniques for porous materials, e.g., zeolites, mesostructured materials, carbonaceous materials, etc. (up to 10 points). - Experience in materials characterization techniques, e.g., TGA, XRD, TEM, SEM, gas physisorption, chemisorption, ICP, FTIR, etc. (up to 10 points). - Experience in thermal energy storage applications (sensible heat, latent heat, or thermochemical cycles) (up to 10 points). - Participation and/or collaboration in R&D projects is a plus (up to 10 points). - Work experience in research centers is a plus (up to 5 points). - Specific/relevant training courses for the position offered (up to 5 points). - Publication of articles in indexed journals (up to 5 points). - Awards, mentions, or other achievements(up to 5 points).
	Interview phase (Opposition): up to 40 points
	- Candidate's interest in joining the organization and performing the duties of the advertised position (up to 10 points). - Suitability of the candidate's knowledge, experience, and other required qualifications to their profile (up to 10 points). - Competencies, aptitudes, skills, and abilities: teamwork, communication, organisation and data analysis (up to 10 points). - Communication skills in English and/or Spanish (up to 10 points).

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