Funded by the European Union under grant agreement No. 101130021

JOB OFFER

JUNIOR RESEARCHER

Position:	**Junior researcher in on development of materials for tunable thermochemical energy storage associated with "4TunaTES" project, from the call HORIZON-EIC-2023-PATHFINDEROPEN-01**		
Project:	**4TunaTES – For Tunable Thermochemical Energy Storage**		
Professional category:	**Junior researcher**	**Contribution group:**	**Thermochemical Energy Storage**
Work Center:	University of Extremadura, Cáceres 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:	Published on the CIIAE website in the section for this offer	**Form of presentation of the application for participation by applicants:**	APPLICANTS MUST SEND ALL DOCUMENTATION FROM POINT 5 OF THE CALL BASES and the rest of the valuable documentation, indicating the following subject: **Ref. IJ-TERMOQUIMICO**
Documents to be submitted with the application:	The documents listed in **point 5 of the Call Bases.**		
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 Telephone: +34 927 690 042 Ext.107 www.fundecyt-pctex.es www.ciiae.org		
Estimated start date:	**September 2025**	**Probation:**	**2 months**
Waiting list	Yes, according to the regulations of points 9 and 10 of the Call Bases.		
Conditions and requirements for applicants:	Those established in point 4 of the Call Bases		
Members of the selection body:	**President:** Breogán Pato Doldán		
	Secretary and member: Lucía Cordón Masero		
	Member: Aleksandr Shkatulov		
Tasks to be developed:	Energy storage is of paramount importance for the future transition to sustainable energy driven by the widespread use of renewable sources. Storing thermal energy is a significant milestone on this route as thermal energy accounts for about 50% of all energy end-use.		

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	The idea of using chemical reactions for the storage of thermal energy is akin to the idea of using chemical reactions for electricity storage. Thermochemical batteries, much like their electrical counterparts, offer high energy storage density and extended storage duration. They can be used to store and release heat in domestic environment and industry. The state of the art in this innovative and evolving field requires groundbreaking solutions combining promising materials with new storage concepts. This position is linked to a European project aiming at development of tunable thermochemical energy storage. By leveraging a novel type of chemical reactions, we aim to improve operational flexibility of thermal batteries for both domestic and industrial use. At the Iberian Centre for Energy Storage Research (CIIAE), we seek a bright and passionate candidate ready to tackle the challenges of material design and testing in cooperation with the leading universities and research institutions across the European Union. **The selected candidate will perform the following tasks**: • Developing novel stable and tunable thermochemical materials • Understanding phase transitions and the effects of doping on thermochemical transformations • Experimental development of stabilization techniques for the new materials • Preparation of thermochemical materials for integration into pilot devices • Authoring and co-authoring scientific publications **Challenges:** • Screening and design of new type of thermochemical materials with tunable thermochemical behaviour • Ensuring the material stability on micro- and macroscopic scales
Academic background:	PhD or equivalent in Materials Science, Chemical engineering, Chemistry or similar.
Other training:	• Fluent English, verbal and written. • Valuable: Spanish.
Contract duration:	Until the end of the financing line (27 months) or completion of the project (whichever comes first)

Remuneration:	Gross Annual Salary: SB: 36.959,30 €	**Financing:**	European Innovation Council and SMEs Executive Agency

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).**
	A. Research line • A.1. Research experience in thermal energy storage • A.2. Research experience in thermochemical or sorptive energy storage • A.3. Experience in related characterization techniques B. Preparation/writing of funding proposal to competitive national and EU calls C. Principal investigator (PI) in R&D&I projects D. Supervision of final degree projects or final master's projects E. Publication of articles in scientific journals F. Participation in research conferences G. Patents H. Awards, mentions or other achievements I. Motivation letter J. Reference letters
	INTERVIEW PHASE (OPPOSITION).
	A. Adequacy of knowledge, experience and other requirements B. Competency, aptitude, skills and abilities: managerial, organizational, analytical, team management and communication skills. C. The suitability of the applicant's profile to the position to be filled D. Candidate's interest in becoming part of the organization and in the performance of the vacancy

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