

JOB OFFER

JUNIOR RESEARCHER

Position: Junior researcher on thermal energy storage
Offer date: WEB publication
Project: CIIAE -Refª IJ-TES (ALMACENAMIENTO DE ENERGÍA TÉRMICA)
Department: Thermal Energy Storage
Estimated starting date: First quarter of 2024

Workplace:	University of Extremadura. Cáceres campus.	
Tasks to be developed:	<p>Thermal energy storage (TES) systems allow the accumulation of energy through heat. The temporary storage of energy can be achieved by heating or cooling a storage medium (sensible heat), through the phase change of a substance (latent heat), or by combination of both mechanisms.</p> <p>The selected candidate is expected to perform the following tasks:</p> <ul style="list-style-type: none"> - Development of materials and TES systems based on sensible, latent, and/or thermochemical heat. - Synthesis and characterization of new materials showing high thermal conductivity. - Evaluation and screening of the materials under development: heat capacity, & cyclability - Long-term storage optimization - Scale-up for further testing in heating/cooling storage systems. - Acquisition of competitive funding, both private and public. - Project management and administration. - Close interdisciplinary collaboration with CIIAE colleagues. As well as collaboration with universities, research institutes and companies at a national and international level. - Support, supervision and tutoring of doctoral students and master's students. - Writing of scientific publications and presentation of results at international meetings. 	
Duration of the contract and salary (per annum):	Fixed-term contract. End: September 2025. Possibility of extension.	Gross Salary Range: 35 000 € - 38 000 €
Academic background required:	A PhD in Physics, Chemistry, Chemical engineering, Materials Science, or similar	
	Note: Candidates about to finish the thesis can submit the application. The PhD certificate will be required by the time of signing the contract.	
Other education:	Valuable master's degree in Materials for Energy Storage and Conversion, Materials Science, Crystallography, Nanotechnology, or similar	
Professional experience:	Post-doctoral experience is not required	
Job requirements (have to be fulfilled):	Specific techniques (analytical, software, calculations, prototyping, etc.)	Experience/competence to be valued: <ul style="list-style-type: none"> - Demonstrated competence in synthesis and characterization of materials for TES. - Experience in thermal analyses: Differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA), thermal conductivity. - Experience in characterization techniques: XRD, TEM, SEM, FTIR, Raman, NMR, AFM, XPS, etc. - Experience in the study of materials for thermal energy storage applications, charge/discharge rate, etc.

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	Participation and/or collaboration in R&D&I/business projects	Demonstrated experience in participation and/or collaboration in R+D+i projects will be valued
	Languages	English. Valuable: Spanish and Portuguese.
	Cross-cutting competences	<ul style="list-style-type: none"> - Leadership and communications skills. - Ability to supervise and work in teams. - Experience in collaborations inside and outside the own department
	Willingness to travel and stay abroad	This position requires occasional participation in events outside of Extremadura
	Publications: scientific articles (in journals indexed in Web of Science and/or Scopus), theses (PhD and/or Master's), presentations at conferences, reports, technical reports, technical guides, etc.	The number and relevance of scientific publications / congresses related to the main topic of the position will be valued.
<p>To be evaluated (adds points to the final evaluation)</p> <ul style="list-style-type: none"> - Motivation letter: please include a letter describing the skills you consider of value for the position, as well as some general objectives of the research you would like to develop at the CIIAE. - Personal references: please provide two reference letters (from employers and/or professors, together with their contact information, e-mail and telephone number) highlighting the technical and soft skills identified by the reference in your profile, and that are of relevance for the position. - Research projects: please include a list of the R+D+i projects you have been involved in. - Experience in writing proposals for competitive calls (even if funding has not been obtained, in this case, please attach the evaluation letter). - Having been a principal investigator in R+D+i projects - Having supervised end-of-degree projects (TFGs), end-of-master projects (TFMs) - Being the first author or the corresponding author in scientific articles - Having completed specific training courses, relevant to the offered position - Experience in energy storage applications - Awards, mentions or other achievements <p>Note: To facilitate the evaluation process, <u>it is recommended</u> to include a list or table, itemizing the merits you consider that should be evaluated for each of the requirements (Ex: Requirement: Experience in XRD measurements. Candidate: brief description of experience in XRD reflected in scientific articles, theses, courses, projects, etc.)</p>		
<p>TECHNIQUES: Oral knowledge test YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p> <p>LANGUAGE: ORAL YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> It will be evaluated during the interview.</p> <p>JOB INTERVIEW: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p>		

Interested candidates

Please, send all the documents requested by the terms and conditions of the call for proposals, together with all the documents requested by this job offer, and the Application Form. Deadline is 15 calendar days from the day following the publication in the CIIAE web, and indicating the following reference: **Ref^a IJ-TES (ALMACENAMIENTO DE ENERGÍA TÉRMICA)** to:

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

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