

JUNIOR RESEARCHER

Position: Junior researcher Prototyping

Offer Date: WEB Publication

Project: CIAE – Refª IJ2-PROTOTIPADO (ALMACENAMIENTO ENERGÍA TÉRMICA)

Department: Thermal Energy Storage

Estimated starting date: 4th quarter 2024

Workplace:	Iberian Centre for Research in Energy Storage (CIAE) is located at Campus of University of Extremadura, Cáceres, Spain.	
Tasks to be developed:	<p>CIAE is structured to have various research lines distributed into departments for 1) Thermal Energy Storage, 2) Electrical Energy Storage, 3) Hydrogen & Power-2-X. Prototyping is a transversal research line which gives flexibility to work with different dedicated research lines.</p> <p>Prototyping refers to being focused on turning ideas into physical objects, solving technical challenges, and integrating them into a functional device. It is a fundamental piece to validate the theoretical work that other researchers/engineers are developing on a laboratory scale. If you are excited about this concept, this job awaits you.</p> <p>As a Junior Researcher in Prototyping, you will be working closely with colleagues to develop prototypes/workstations/testbenches for the systems related to the above-mentioned research departments. You will get the opportunity to work with different energy systems, offering the possibility to implement the research concepts of prototyping.</p> <p>The selected candidate is expected to:</p> <ul style="list-style-type: none"> - Exhibit a research profile that can effectively collaborate with the other research teams. - Have expertise in design engineering focused on 3D CAD modeling and simulations. - Have ability to collect research data through measurements of key parameters (such as temperature/pressure/flow rate) and to perform data analysis. - Perform installation and commissioning of the prototypes. - Have ability to understand electrical / piping drawings. Any hands-on experience will be preferred. - Collaborate with universities, research institutes, and companies at a national and international level. - Provide support in the supervision and tutoring of Pre-Doc students. - Participate in the publishing of research articles and drafting research proposals. 	
Duration of the contract and salary (per annum):	Temporary Contract. Initial duration: September 2025, having possibility of extension	Annual Gross Base Salary: 36.775,48 €
Academic background required:	Ph.D. in the field of STEM (Science, Technology, Engineering, and Maths) or other relevant fields. Candidates having PhD in progress can also submit application but cannot join the job without completing degree.	

Other professional education:	Valuable training/knowledge in: Mechanical Design, Instrumentation, Control Systems, 3D & 2D CAD Modelling, FEA Simulation, Laboratory Automation.	
Professional experience:	<ul style="list-style-type: none"> - Experimental research experience to develop prototypes using novel ideas. - Designing of instruments assisting research activities. It can be related to mechanics, electrical, computer interfaces, or data acquisition. - Postdoctoral experience is preferable but not compulsory. 	
Job requirements (have to be fulfilled):	Specific techniques (analytical, software, calculations, prototyping, etc.)	Additional Points for the following: <ul style="list-style-type: none"> - Knowledge of mechanical manufacturing techniques: welding equipment, lathes, milling machines, casting. - Experience in the manufacturing of in-house equipment. - Knowledge of softwares such as Matlab, Auto-Cad, Solidworks, Ansys, EES and TRNSYS or other similar.
	Participation and/or collaboration in R&D&I/business projects	Previous experience in research projects will be valued.
	Languages	English is preferable.
	Cross-cutting competences	<ul style="list-style-type: none"> - Ability to supervise and to work as team member. - Ability to perform tasks with precision, effectiveness, and by safe practices.
	Willingness to travel and stay abroad	This position requires 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.	Valuable publications. Valuable experience in the preparation of reports or technical guides.
Following attachments will adds points to the final evaluation: <ul style="list-style-type: none"> - Motivation letter: please include a letter describing the skills you consider of value for the advertised position, as well as some general objectives of the research you would like to develop at the CIAE. - Reference letters: 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 the candidate, and that are of relevance for the position. 		

- Research projects: please include a list of the R+D+i projects you have been involved.
- Experience in writing proposals for competitive calls (even if funding has not been obtained, in this case, please attach the evaluation letter).
- Having obtained funding or competitive research contracts.
- Having been a principal investigator in R+D+i projects
- Demonstrated experience in supervising work teams.
- 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 industrial collaborations and/or previous experience working in industry.
- Patents.
- Awards, mentions or other achievements.

Note: To facilitate the evaluation process, it is recommended to include a list or table, itemizing the merits you consider that should be evaluated for each of the requirements

(For example: Job Requirement: Experience of working with solidworks software. Candidate Response: Brief description of experience with solidworks software reflected in scientific articles, thesis, courses, projects, etc.)

Selection process details:

Technical test: Oral knowledge test YES **NO** X

LANGUAGE: ENGLISH ORAL YES X NO **(Will be evaluated during the interview)**

JOB INTERVIEW: YES X NO

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, with the deadline being 15 calendar days from the day following the publication in the CIAE web, indicating **Ref^a IJ2-PROTOTIPADO (ALMACENAMIENTO DE ENERGÍA TÉRMICA)**.

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