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**JOB OFFER** 

## **SENIOR RESEARCHER**

Position: Senior researcher in energy system analysis Offer date: CIIAE web Project: CIIAE – Ref. IS-SISTEMAS (HIDRÓGENO Y POWER-TO-X) Department: Hydrogen and Power-to-X Estimated starting date: 2023

Workplace:	University of Extremadura. Cáceres campus	
Tasks to be develped:	<ul> <li>In energy system analysis, simula decarbonise our society, considerin of view. Energy system analysis shot the basis of more transparency, rep</li> <li>The selected candidate is expected <ul> <li>Developing an attractive r</li> <li>Creating open-source energistrices energi</li></ul></li></ul>	to perform the following tasks: esearch agenda in the field of energy system analysis ergy system models at various spatial and temporal sula and energy communities. energy system model of the Iberian Peninsula with c, North of Africa, and overseas to decision makers based on modelling results mental researchers from CIIAE and beyond funding, both private and/or public, e.g., PhD with universities, research institutes and companies at level. D, postdocs and master students, i.e. they meet their author (e.g., 1 paper p.a. in a high-ranked journal) project administration (internal and external), also
Duration of the contract and salary:	Temporary Contract Initial duration: September 2025, with the possibility of extension	Gross Salary + S.S. Fees Gross Salary Range: 45 000 €
Academic background required:	A PhD in engineering, computer science, mathematics, physics, economics or related numerate disciplines	
Other education:		









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Professional experience:	<ul> <li>At least 2 years of post-doctoral experience</li> <li>Proven experience in acquiring and/or writing competitive project proposal, for example, project or career funding</li> <li>Proven experience in supervising PhD and/or master students (for example, as daily supervisor</li> </ul>	
Job requirements (have to be fulfilled):	Specific techniques (analytical, software, calculations, prototyping, etc.)	<ul> <li>Excellent analytical skills and experience in theoretical and applied modelling</li> <li>Experience in energy system modelling and optimisation</li> <li>Knowledge of energy system engineering and techno- economic assessment</li> <li>Statistical skills, for example statistical tests and regression</li> <li>Programming experience (any language, but work may be mostly be in Python and Matlab).</li> <li>Knowledge of energy storage, hydrogen, flexibility technologies and power-to-X</li> </ul>
	Participation and/or collaboration in R&D&I/business projects	Proven participation on at least 3 R&D projects
	Languages	Excellent oral and written skills in English
	Cross-cutting competences	<ul> <li>Ability to lead a team towards financing and objectives</li> <li>Commitment to open science in terms of research methods, data and publications</li> <li>Proven experience with industrial collaborations and/or previous experience working on industry</li> <li>Experience on collaborating with other colleagues from the same department and beyond</li> </ul>
	Willingness to travel and stay abroad	The candidate is expected to travel, both nationally and internationally, in the context of projects and conferences
	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.	Strong track-record of academic publications as first author and co-author as the candidate is expected to publish in top journals in the field. At least 10 publications in Scopus indexed journals.
To be evaluated (adds points to the final evaluation):         -       Proven experience with agent-based modelling (ABM)         -       Knowledge of power flow analysis         -       Machine learning         -       GIS modelling         -       Experience with statistical learning models and machine learning         -       More than 2 years of post-doc experience		

- More than 2 years of post-doc experience
- Being the principal investigator of at least 1 project
- Publications as last author
- Knowledge of Spanish and/or Portuguese
- Motivation letter (maximum 2 pages) included in the application.









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 Evaluation provided by 2 references via telephone conversation. The contact details of the references (e-mail and telephone) are provided by the candidates in their application.

Selection process details:

Technical test: NO

Language (English): yes (will be evaluated during the interview)

Job interview: yes

## Interested candidates:

Please, send all the documents requested by the terms and conditions of the call for the proposal, with the deadline being 15 calendar days from the day following the publication in the CIIAE web indicating the following reference: **Ref. IS-SISTEMAS (HIDRÓGENO Y POWER-TO-X)** 

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

Email: ciiae.personal@fundecyt-pctex.es Phone number: +34 924 014 600

www.fundecyt-pctex.es

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