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JOB OFFER

SENIOR RESEARCHER

Position: Senior researcher in LCA and techno-economic analysis Offer date: CIIAE web Project: CIIAE - Ref^a IS-LCA (ELÉCTRICO E 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:	 Providing decision support is key to In LCA and techno-economic analysis respectively, of products and service extraction, manufacturing, technolo should be open, when possible, in co of more transparency, reproducibili The successful candidate is expected Developing an attractive reanalysis Creating open-source LCA linked with renewables Using monitored data in pi Integrating LCA with energy Provide recommendations Collaborations with experine Acquisition of competitive reand postdocs. Successful collaboration with national and international Successful guidance of Philown requirements Writing publication as first Project management and towards the department at models complex. Plenty of data are important results to provide policy 	 a speed up the transition to net zero energy systems. a speed up the transition to net zero energy systems. a speed up the transition to net zero energy systems. a speed up the environmental and economic impacts, b ses are assessed, throughout the life cycle: resource b and traceability. b and traceability. b and traceability. b and traceability. c and to perform the following tasks: c asearch agenda in the field of LCA & Techno-economic c models of energy storage and hydrogen technologies, l at plants for sustainability indicators a system modelling b d decision makers based on modelling results mental researchers from CIIAE and beyond funding, both private and/or public, e.g., PhD students with universities, research institutes and companies at level. D, postdocs and master students, i.e. they meet their a author (e.g., 1 paper p.a. in a high-ranked journal) project administration (internal and external), also and CIIAE er of available technologies, actors, e.g., households certainty which makes LCA and techno-economic also generated, making the assessment of the recommendations challenging
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 chemical engineering, chemistry, energy engineering or equivalent, physics, natural sciences, industrial Ecology, sustainability, or similar	
Other education:		









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Professional experience:	 Minimum 2-year postdoctoral experience Minimum 2-year experience with LCA and/or techno-economic projects Participation in at least 4 European projects (H2020, FP7, etc.) or equivalent. Also, an equivalent experience in the private sector may be considered 	
Job requirements (have to be fulfilled):	Specific techniques (analytical, software, calculations, prototyping, etc.)	 Excellent analytical skills and experience in LCA (OpenLCA, Brightway 2, SimaPro, Ecoinvent, etc.). But the work will be mostly on open source Brightway. Experience in techno-economic analysis (e.g. LCOE) and circular economy Previous experience with the Input-Output method Statistical skills, e.g. statistical tests and regression Experience in programming in general purpose language (any language, but the work will be mainly in Python and Matlab).
	Participation and/or collaboration in R&D&I/business projects	Minimum participation in 4 research projects, European, national or business
	Languages	Excellent oral and written skills in English
	Cross-cutting competences	 Ability to lead a team towards funding and goals Commitment to open science in research methods, data and publications Proven experience with industry collaborations and/or previous experience working in the industry Experience in collaborating with other colleagues in the same department and external Communication skills
	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):

- Having been a principal investigator in regional/national/European or direct contracting projects.
- Having supervised doctoral and master theses.
- GIS Modelling.
- Experience with MCDA.
- Knowledge of modelling and optimisation of energy systems.









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- Experience with statistical learning and machine learning models.
- Valuable knowledge of Circular Economy of energy storage systems.
- Valuable knowledge in Spanish and/or Portuguese.
- Valuable to have obtained a Marie Curie fellowship or similar, through competitive competition research contracts.
- Awards, distinctions or any merit that is consistent with the position described.
- Motivation letter (maximum 2 pages) included in the application.
- 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-LCA (ELÉCTRICO E HIDRÓGENO Y POWER-TO-X)**

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