EURAXESS

Job offer

JOB SPAIN

Universitat Jaume I | Posted on: 21 May 2025

Position at the University Jaume I for predoctoral research staff in training. Main project researcher: Iván Mora Seró

Apply now *(https://www.uji.es/seu/info-adm/tao/convocatoriesRH?pConv=3281&pCategoria=14)*

Add to Favorites Share

View ***(/jobs/345852)*** **Edit** ***(/node/345852/edit)***

Apply

21 May 2025

Job Information

Organisation/Company	Universitat Jaume I
Department	Mechanical Engineering and Construction
Research Field	Engineering » Chemical engineering
Researcher Profile	First Stage Researcher (R1)
Positions	PhD Positions
Country	Spain
Application Deadline	4 Jun 2025 - 23:59 (Europe/Madrid)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	37,5
Is the job funded through the EU Research Framework Programme?	Horizon Europe
Reference Number	HORIZON-CL5-2022-D3-03-05
Is the Job related to staff position within a Research Infrastructure?	Yes

Offer Description

Project details

Title: HEPAFLEX - HIGH-EFFICIENCY PEROVSKITES ON FLEXIBLE SUBSTRATES FOR SUSTAINABLE APPLICATIONS

Reference: HORIZON-CL5-2022-D3-03-05

UJI code: 23I408

University Jaume I Research group: GAS - Grupo de Semiconductores Avanzados

Tasks

HEPAFLEX proposes a new approach based on HaP, a technology that can: a) improve the current high-power photovoltaic (PV) supply systems implementing circular economy principles, and b) adapt the energy generation to specific non-utility scale areas unfeasible for conventional photovoltaics technologies.

HaP photovoltaics technology currently faces fundamental challenges that have to be met for its tangible impact on the final applications, with performance and stability being critical limiting parameters. HEPAFLEX will make HaP PV sustainable by developing high photoconversion efficiency (PCE) devices with green fabrication methods and a circular economy approach, expanding their effective HaP PV cell lifespan to > 25 years.

The PhD student will develop analysis work on life cycle assessment of the new materials and process developed in HEPAFLEX. This work will allow the PhD student to defend a Doctoral Thesis at the end of her/his contract. Experience with life cycle assessment (LCA) or other environmental assessment methodologies applied to materials and industrial processes will be important.

Environmental impact evaluation using the life cycle assessment methodology will be used to calculate the environmental impacts. The assessment will include the whole life cycle of the thin films. HEPAFLEX will be compared with conventional and alternative solutions to calculate the environmental benefit that can be achieved with the solutions developed in the project. In addition, the environmental hotspots of task 1.3 will be identified and measures will be proposed to optimize the environmental performance of the life cycle of the new ecological products. Fate and exposure models will be applied to determine missing human health and environmental toxicity characterization factors. HEPAFLEX intends to be circular and new approaches will be used for calculating the circularity.

The candidate will collaborate in the management of the WP3 and other research groups for life cycle cost, life cycle social impact and recycling.

Director of the Thesis and responsible for the contract: Rosario Vidal Nadal
Dep. of Mechanical Engineering and Construction

Submission of applications

The call will be published in the Official Gazette of the Valencian Autonomous Government (DOGV) and on the Official Noticeboard of the Universitat Jaume I (TAO-UJI), in the category “Convocatorias PI” [Calls for researchers]. The deadline for submission of applications is 10 working days as of the day following the publication of this call in the DOGV.

Applications must be submitted through the online registry directly at the address:

https://www.uji.es/seu/info-adm/tao/ (category “PI” look for code: 22120).

Or it is also possible to use a generic registry:

http://www.registre.uji.es/ (indicating call PI code: 22120)

In order to do so, candidates must have a UJI corporate account, a digital certificate containing an electronic signature. Anyone who does not have a UJI corporate account must register for a new one on the University website at: http://www.registre.uji.es/ or contact registre@uji.es.

The application must include the following:

In the section I STATE, literally:

“That the details provided in my application are true and that I meet the conditions for admission to the public service and the specific requirements set out herein”

In the section I REQUEST, literally:

“Admission to the selection process to create, through a simplified procedure, a pool of candidates to fill vacancies for research-related personnel. Code: 22120”

To the attention of: Human Resources Service.

The following documents must be submitted as separate PDF files attached to the online application:

Identity document (DNI, NIE, passport, etc.).

Relevant degree certificate and the corresponding academic transcript.

Other documents required in the call.

Curriculum vitae showing the merits eligible for consideration in the appendix.

Merits that are eligible for consideration must be accompanied by relevant supporting documents (merits that are not submitted with such documents before the deadline for submission of applications will not be considered).

Where to apply

Website https://www.uji.es/seu/info-adm/tao/convocatoriesRH?pConv=3281&pCategoria=14

Requirements

Research Field Engineering » Chemical engineering

Education Level Master Degree or equivalent

Skills/Qualifications

Studies in Industrial Engineering, Civil Engineering, Electronic Enigneering, Chemical Engineering or Chemistry field that qualifies him/her to pursue doctoral studies.

Specific Requirements

Knowledge and/or experience in life cycle analysis applied to materials and industrial processes will be valued as preferential merits.

Additional Information

Additional comments

The candidate shall be appointed with a full-time employment contract for periods of one year, renewable for a total of up to the end of the project, according to the Spanish legislation and covered under the Spanish social security scheme.

The candidate will course PhD studies in the Technology and Materials Program of the University Jaume I.

Website for additional job details https://www.uji.es/seu/info-adm/tao/convocatoriesRH?pConv=3281&pCategoria=14

Work Location(s)

Number of offers available	1
Company/Institute	Universitat Jaume I
Country	Spain
State/Province	Castelló
City	Castelló de la Plana
Postal Code	12071
Street	Vicent Sos Baynat
Geofield	

Contact

State/Province	Castellón
City	Castelló de la Plana
Website	http://www.uji.es
Street	Avda. Sos Baynat s/n
Postal Code	12071
E-Mail	ssaiz@uji.es

Apply now *(https://www.uji.es/seu/info-adm/tao/convocatoriesRH?pConv=3281&pCategoria=14)*

Add to Favorites

Share this page


X (formerly Twitter)


Facebook


LinkedIn


Whatsapp


More share options