Postdoctoral opening **Closing Date:** 5 October 2022

Project: Hybrid perovskites for memory applications

Hybrid Perovskites are a fascinating family of materials initially developed for photovoltaic applications. From the first report in 2009 a set of unique physical and chemical properties have been revealed such as the mixed electronic/ionic conductivity. This property makes them ideal candidates for memory applications that mimic the working mechanism of the human brain. The project aims at fabrication of single pixel devices, cross-bar and neuromorphic devices and their implementation into advanced functionalities. Advanced electrical and optical characterization will help with modeling of the response to fully understand the working mechanism. Different post-doctoral profiles are needed to complete the different parts of the project.

Eligibility criteria (mandatory)

- PhD in Materials science, Electric Engineering, Chemistry, Physics, Chemical Engineering, or related fields.

Technical Requirements

- Strong background in materials science (photovoltaics, LEDs or memory devices).
- Strong background in electrical characterization of semiconductor/memory devices.

General skills:

- Strongly motivated to develop a scientific research career.
- Excellent academic results.
- Excellent interpersonal and communication skills.
- Proficiency in English language, written and spoken.

Application procedure:

Candidates should send the following documents to aguerrer@uji.es and bisquert@uji.es, as soon as possible and not later than October 3rd 2022.

- Motivation letter.
- Brief CV (including academic record summary)
- Name and email of one referee that supports your application.

Job conditions:

Location: Universitat Jaume I, Institute of Advanced Materials (INAM), Castelló, **Spain**
Duration: up to 3 years (possibly longer depending on funding availability)
Working hours: 37,5/ week (full time)
Closing Date: 5 October 2022
Expected starting date: As soon as possible but we will consider special circumstances

Interview: Date to be confirmed

Website: www.inam.uji.es

Email: aguerrer@uji.es and bisquert@uji.es