



**Graduate, Master degree and Post-doctoral jobs:**

**Closing Date:** 17/04/2023

**Research Group Energy and Advanced Materials**

The main focus of the team is the investigation and modeling of fundamental mechanisms governing the operation of several electronic materials and devices. The team combines experimental investigation and theoretical/numerical tools to develop insights into the electronic processes, joining novel theory of semiconductor nanostructures, photoelectrochemistry, and systematic experimental demonstration.

The contracted person will work on a project where halide perovskite materials will be integrated into memory devices in event driven neuromorphic computation. The researcher will design the neuromorphic scheme in combination with optical systems and will electrically characterize the system.

**Eligibility criteria (mandatory)**

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

**Technical Requirements**

- Knowledge in electrical and optical characterization of devices.
- Knowledge in setup design for user designed electrical measurements (i.e. combine voltage-current sources, synchronize optical and electrical signals or program a train of measurements, use of a multiplexer,...).
- Knowledge on electrical signal conditioning and treatment.
- Knowledge in programming to enable user design electrical measurements (i.e. Labview or other software to control the electrical equipment)

**General skills:**

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

**Application procedure:**

Candidates should send the following documents to [aguerrer@uji.es](mailto:aguerrer@uji.es) and [bisquert@uji.es](mailto:bisquert@uji.es), as soon as possible.

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

**Job conditions:**

**Bolsa de trabajo:** The current job offer is an official candidates "pool" (bolsa de trabajo). Different post will be made available in the coming months.

**Location:** Universitat Jaume I, Institute of Advanced Materials (INAM), Castelló, Spain

**Duration:** depends on funding availability, participation in PhD program is possible in some positions. Funding already available until June 2025.

**Working hours:** 37,5/ week (full time)

**Closing Date:** TBD



**Salary range:** 28-32 k€ (gross salary) depending on the level of academic and research previous achievements.

**Expected starting date:** As soon as possible but we will consider special circumstances

**Interview:** Date to be confirmed

**Website:** [www.inam.uji.es](http://www.inam.uji.es)

**Email:** [aguerrer@uji.es](mailto:aguerrer@uji.es) and [bisquert@uji.es](mailto:bisquert@uji.es)