

Postdoctoral

Ecole/Institution/Société:
UCAM, Spain / Murcia

Discipline:
Systems Engineering

Type d'emploi::
Full-time

Date de publication:
2025-02-23

Personne à contacter:
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Postdoctoral Researchers in Electrochemistry focused on Sensing Devices

The UCAM-SENS unit is searching for Postdoctoral Researchers with proven expertise in Electrochemistry focused on Sensing Devices.

UCAM-SENS, the Unit of Chemical Sensing at the UCAM, is seeking to incorporate excellent postdoctoral researchers with strong background in the development of electrochemical sensing devices.

The Unit

The UCAM-SENS is a scientific unit that strives for the true digital transformation of key domains such as Health, Sport, Food and the Environment by using advanced (bio)chemical sensing based on electrochemistry and imaging principles. The UCAM-SENS is led by Prof. Maria Cuartero and Prof. Gaston Crespo, who after an extensive academic career in Switzerland and Sweden of ten years, set this unique research and educational environment at the UCAM.

The mission of UCAM-SENS is established on four pillars: (i) RESEARCH, synergy of fundamental and applied investigations with remarkable significance, quality and high impact, resulting in tangible outcomes that solve current and future societal challenges; (ii) EDUCATION, personalized education at master and PhD levels in chemical digitalization with sub-branches such as bioelectrochemistry, analytical methods, nano-chemistry, imagining, micro-fluidics, etc. (iii) INNOVATION, materialize research ideas into concrete business cases, advance the technological readiness accompanied with alternatives to reach end-users aiming at improving the citizens' life, our environment and surrounded. Note that we are a foundation with a social mission, and thus, benefits are fully re-invested in our research purpose. (iv) INDUSTRIAL PARTNERSHIP, the UCAM-SENS has the required scientific knowledge to develop sustainable research, development, and innovation projects (R+D+I)

in cooperation with the industrial sector toward a mutual benefit.

The UCAM-SENS unit is located at the HiTech research building (research incubator and accelerator), which is a multicultural and multidisciplinary environment where people, ideas, knowledge, and necessities meet together to pose and address new challenges.

Requirements of the postdoctoral candidates:

Demonstrate experience in:

Fundamental and applied electrochemistry.

Electroanalytical sensing devices.

Modelling

The postdoc must have:

Completed PhD degree in Chemistry or Engineering Chemistry, Biochemistry, Biotechnology, Nanotechnology, or related field.

Publications and/projects related to the above experience. (Attached with the application).

Advance English Level.

To be part of UCAM-SENS you must be goal-oriented postdoctoral research and with the ambition to generate independent and innovative research ideas. In general, the candidate must:

Show complete independence in pursuing his or her work,

Excellent enthusiasm and innovative thinking,

Excellent publication records,

Excellent supervision skills,

Excellent collaborative skills,

A professional and business mindset,

High capacity to work in multidisciplinary projects.

After the qualification requirements, great emphasis will be placed on personal qualities and personal suitability.

What is offered.

3 years contract as Postdoctoral Researcher enclosed in the ERC StG Project “Conquerlons” lead by Prof. Maria Cuartero Botia.

UCAM-SENS offers an innovative, dynamic, and international research environment (www.ucam-sens.com) in where to develop your career.

Starting date, as soon as possible.

Application

Apply for the position and admission through the UCAM recruitment system. It is the applicant's responsibility to ensure that the application is complete in accordance with the instructions in the advertisement. Applications must be received at the last closing date at midnight, CET/CEST (Central European Time/Central European Summer Time).

Applications must include the following elements:

CV including your relevant professional experience and knowledge (maximum 2 pages long). Details of the bachelor's, master's degree and thesis title, year, and university. Provide clear information about your current and previous work experience.

Application letter with a brief description of why you want to be part of UCAM-SENS, about what your academic and personal interests are and how they relate to your previous studies and future goals (maximum 2 pages long).

Representative publications or technical reports: For large documents, please provide a summary (abstract) and a web link to the full text.

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