## (005) PhD Position in Bioelectroanalysis for Next-Generation of (Bio)Sensors

The **UCAM-SENS** unit is seeking a highly motivated PhD student to join its cutting-edge research in **Bioelectroanalysis**. This position focuses on the development of advanced electrochemical sensing technologies for real-time health monitoring and diagnostics.

### **About UCAM-SENS**

UCAM-SENS is a top-tier research unit dedicated to advancing (bio)electroanalytical sensing for digital transformation in healthcare, sports, food safety, and environmental monitoring. By integrating electrochemical techniques and imaging technologies, the unit delivers cutting-edge solutions with real-world impact.

Led by **Prof. María Cuartero (ERC Fellow)** and **Prof. Gaston Crespo**, UCAM-SENS fosters innovation, education, and industrial collaboration. The unit operates within **HiTech**, a research incubator that promotes a multicultural, multidisciplinary research environment.

#### PhD Research Focus

The selected PhD student will contribute to **the development of advanced bioelectroanalytical tools** for real-time health monitoring, focusing on electrochemical sensing, bioelectrode development, and analytical performance enhancement.

# **Position Requirements**

## **Required Qualifications**

- M.Sc. degree in Analytical Chemistry, Electrochemistry, Biochemistry,
  Biotechnology, Nanotechnology, Biomedical Engineering, or related fields.
- Proven experience in one or more of the following areas:
  - Electrochemical biosensors
  - Bioelectroanalysis and bioelectronics
  - Wearable and implantable sensors
  - Microfluidic-based electrochemical platforms
  - Data-driven sensor signal processing
- Fluent English proficiency (B2/C1 level or higher).
- Strong analytical, problem-solving, and experimental skills.

#### Personal Skills

We are looking for candidates who:

- ✓ Can work both independently and within a research team.
- $\checkmark$  Demonstrate problem-solving abilities and adaptability in tackling complex research questions.
- ✓ Are professional, goal-oriented, and eager to contribute to scientific innovation.

## What We Offer

- ✓ PhD degree (3-4 years) in an internationally recognized research environment.
- ✓ Close supervision by leading experts in bioelectroanalysis:
  - **250+ publications** (85% in Q1, 80% in D1 journals)
  - 5 international patents
  - Multiple technology-based startups
    - ✓ Multidisciplinary research clusters with senior mentorship.
    - ✓ **Support for relocation and settling** in Murcia, Spain.
    - ✓ Access to state-of-the-art laboratories and industry collaborations.
    - ✓ A unique academic setting at **UCAM**, housed in the **historic Jerónimos Monastery**, a National Monument.
    - ✓ Life in Murcia a vibrant Mediterranean city with 300+ sunny days per year, stunning beaches (Costa Cálida), mountains, and rich cultural heritage.
    - ✓ Start date: As soon as possible.

## **How to Apply**

Submit your application via the UCAM recruitment system before the deadline (**midnight**, **CET/CEST**).

### **Application Requirements**

- CV (max. 2 pages) detailing academic background and experience.
- Application letter (max. 2 pages) explaining:
  - Your motivation for joining UCAM-SENS.
  - o How your background aligns with the PhD project.

- Copies of diplomas and transcripts (translated into English or Spanish if necessary).
- **Proof of English proficiency** (if applicable).
- Representative publications or technical reports (include abstracts and web links for long documents).
- Reference letters from previous supervisors or professors.

Join us and be part of a cutting-edge project shaping the future of bioelectroanalytical sensing!