

## Job Title

# Fabrication and test of electrochemical hydrogen sensors

---

## Main tasks and responsibilities/Job description

The tasks of this job are:

- Fabrication of different structures of interdigitated electrodes (IDE) and microelectrode arrays (MEA) with silicon technologies.
- Deposition of hydrogen receptor layers based on polycarbazole derivatives through electrodeposition onto the microelectrodes
- Characterization of these layers using electrochemical methods: impedance spectroscopy (IES) and voltammetry.

---

## Requirements

Bachelor in Chemistry, Chemical engineering, Engineering (others)

## Description of Group/Project

The candidate will join a highly dynamic group in the area of sensors and microelectronic technologies. This group is multidisciplinary and formed by engineers, chemists, physicists, biochemists, etc.

The project that will grant this contract is an ERANET EU project HydroSENS. This is a collaborative project with two groups from Poland and two from Sweden.

## Summary of conditions

- The salary will be established by CSIC rules for a Graduated level (Group 1, "Titulado Superior")
- The contract will start on June 2022 (depending on the administrative issues) and will last one year with possible extension to three years.
- This work could be subjected to do a PhD thesis.

## How to apply

All applications must be sent to [Cecilia.jimenez@csic.es](mailto:Cecilia.jimenez@csic.es), with the subject **HydroSENS contract**.

Applications must include:

1. A full CV.
2. Academic record

**Deadline for applications: 31/10/2022**

---

- This offer can be found on: <https://www.imb-cnm.csic.es/en/about-center/careers/open-positions>
- More information on IMB-CNM: <https://www.imb-cnm.csic.es/en/>