

**Institute of Microelectronics of Barcelona IMB-CNM (CSIC)**

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## Smart Analytical Microtechnology for beverages organoleptic monitoring

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### Description of Group/Project

In this project, you will collaborate with a multidisciplinary team with expertise in sensors, analytical chemistry, microelectronics and computer science, to deliver innovative intelligent sensor solutions (following Electronic Tongue concept) for analysis of beverages and relation with organoleptic and perception properties. Your specific objectives will be to post-processate sensor chips with selectivities to different ions (pH, Na<sup>+</sup>, K<sup>+</sup>, NO<sub>3</sub><sup>-</sup>, etc) and quality parameters, to characterize these sensors and to measure different beverages for labeling their organoleptic characteristics. We will empower you to strengthen your technical expertise and contribute significantly to further develop the microsensing instruments and the necessary skills for sensors processes.

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.

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### Background & skills

- Degree or MSc in Chemistry or Chemical Engineering or related field;
- Ability to work independently, and to thrive within a diverse technical team;
- High analytical, problem-solving, and communication (written and verbal) skills;

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### What we offer

- Working in a stimulating, multidisciplinary, and dynamic environment;
  - Extensive benefits package for work-life balance in line with CSIC's regulations;
  - Personalized hands-on training on cutting-edge technology topics with links to industry;
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### How to apply

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

1. A full CV.
2. Academic record

**Deadline for applications: 07/04/2025**

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More information on IMB-CNM: <https://www.imb-cnm.csic.es/en/>