



Postdoctoral position to design, organize and performance of highly specialized and advanced experiments

The role

We offer the possibility to be part of a dynamic research group of CSIC for a period of at least three years, enrolling in a European project (TOXBOX) and learning about innovative scientific approaches related to diagnostic and therapy, as well as to participate in all its scientific activities organized by the group. The researcher finally hired will perform part of the work in the context of a European Consortium having the chance of getting to know and collaborate with excellent research teams having expertise on different and complementary disciplines to achieve a common objective (see below).

AGREEMENT AND RESPONSABILITIES:

It is expected that the researcher will work somewhat independently. With the support and advice of the Principal Investigator and the Nb4D research team, will take responsibility of the design, organization and performance of highly specialized and advanced experiments using established scientific protocols and procedures and, in some cases, designing new ones. Between the duties will be making the effort to summarize, share and discuss his findings with the research group in the regular scientific meetings by preparing attractive and clear Power Point presentations. In respect to the EC project, the researcher will also have to present and discuss its advances in the Consortium meetings and take responsibility of the communication with the rest of the partners and the preparation of the corresponding reports. It is also expected that, as result of his research activity, the researcher will make the effort to publish his results in internationally renowned scientific journals or to collaborate on the preparation of the patent in case intellectual property issues are generated as result of his research.

As with the rest of team, the researcher will assume general responsibilities related to specific equipment and scientific operations. It is expected collaboration in the maintenance of the lab and the common tasks contributing to a good atmosphere of the whole research team. Eventually, it may be required that the researcher will provide supervision and guidance to other researchers, junior technicians or students.

What do we look for?

- **Qualifications**

PhD in Chemistry, Biochemistry, Biotechnology or related sciences

- **Professional experience**

At least 3 years of experience in research environment
Experience on immunochemistry, bioanalytical techniques, biosensors and/or related technologies

- **Competences**

Development of immunochemical techniques
Microarray technology for multiple biomarkers detection
Techniques for characterizing biomolecular interactions
Antibody development

The candidate should have good listening, reading and writing English skills and should be a dynamic and motivated person with excellent teamwork and communication abilities. The person hired will have positive attitude to overcome difficulties and ability to acquire accurate and reproducible data. Critical eye towards the scientific method and project and time management skills will be strongly valued.

Working conditions

- **Contract duration: At least 3 years**
- Estimated annual gross salary: salary will commensurate with qualifications and experience
- Target start date: 16/02/2024

The institute

The **Institute for Advanced Chemistry of Catalonia (IQAC)** is one of the research centers of the Spanish National Research Council (CSIC). The Institute is located in Barcelona and it was created in 2007 with the mission to perform research of excellence in Chemical Sciences with the broad goal of improving the quality of life. The general strategy to achieve this mission involves the application of chemical approaches to address and solve societal challenges, mainly those related to human health, the sustainability of chemical processes and products, and the needs for novel materials for different applications. Since its establishment, IQAC has been in a permanent attitude to transfer its knowledge and technology results to the industrial sector.

The research developed at IQAC is organized around two main nodes: **Biological Chemistry** and **Nanobiotechnology** and it is facilitated by a number of Key Enabling Technologies. Considering the objectives pursued, many of the investigations carried out by the Research Groups at IQAC lie at the intersection between nodes.

In addition, our Institute holds a set of scientific and technical facilities run by highly qualified scientists and technical personnel with a solid background and long lasting expertise. These facilities are available not only to IQAC research groups, but also to potential users from both academia and private institutions. In any case, the technical services from IQAC are always wide open to attend any inquiry and to offer their best efforts to find adequate responses to specific needs.

The group

The Nanobiotechnology for Diagnostics group (Nb4D, <https://nb4d.csic.es/>) is a research group established at the Institute for Advanced Chemistry of Catalonia (IQAC-CSIC, <https://www.iqac.csic.es/>) whose mission is to conduct pioneering research aimed at improving the quality of life of society. This is pursued through the development of new diagnostic strategies (for the clinical, food safety and environmental fields) and alternative therapeutic approaches, all based on tailor-made bioreceptors combined with micro and nanotechnological approaches.

How to apply?

Those interested may email their **CV** and **motivation letter** to **Francesc Bejarano** at nb4d-projectmanager@cid.csic.es, adding Postdoctoral position - TOXBOX to the email subject.

Deadline: 08/01/2024