Call reference number	(2026-29)
Call name	Postdoctoral researcher to characterize the response of cells to magneto- and electro- stimulation (BIOELEC-2)
Application Deadline	2026/12/13

Introduction and main description

BCMaterials, Basque Center for Materials, Applications and Nanostructures, is an autonomous research center launched in June 2012 by Ikerbasque, the Basque Foundation for Science and the University of the Basque Country (UPV/EHU) as a research center for Materials, Applications and Nanostructures. The center is included in the BERC's (Basque Excellence Research Centers) network and its mission is to generate knowledge on the new generation of materials, turning this knowledge into (multi)functional solutions and devices for the benefit of society.

The laboratory of Biomaterials and Biomedicine at BCMaterials is seeking a highly motivated Postdoctoral Researcher for the BIOELEC-2 project, funded by the IKUR program. The work will be carried out in collaboration with Achucarro and University of the Basque Country (EHU).

The researcher will collaborate with the design and implementation of an organ-on-a-chip system integrating electro- and magnetoelectric stimulation systems and characterize the response of neural-origin cells to these stimuli. The researcher will also work on scaling up the device in collaboration with our industrial partners.

As said before, the position is offered within the BIOELEC-2 IKUR Strategy project, with a finishing date on 31/12/2028.

Skills and Requirements

Essential qualifications and skills:
* PhD in Neurobiology, Biochemistry, Biology, Materials Science, or a related field.
* Strong background in biomaterials, cell culture and analysis of cell response to surface properties.
* Experience in live imaging and immunofluorescence.

Desirable qualifications and experience:
* Biomaterials processing an characterization
* Evaluation of cell-biomaterial interactions
* Desing and implementation of advanced cell culture conditions (3D cultures, co-cultures, organ-on-a-chip systems, etc)
* Experience in high throughput analysis of gene expression.
* Scientific publications in similar research projects.

Skills and Requirements
* Capacity for teamwork in an interdisciplinary and international environment. * Self-motivation and willingness to perform independent research. * Proficiency in speaking and writing in English. * Presentation skills.

Work Program / Duties / Responsibilities
* Processing and characterization of electroactive materials. * Design and perform experiments to characterize the response of cells of neural origin to material-derived stimuli. * Experience in cell culture and cell response evaluation. * Support the development of bioreactors. * Participate in consortium meetings and collaborate with research partners. * Follow BCMaterials' laboratory safety, quality and data-management procedures.

Application Procedure
Apply by submitting a motivation letter and a CV (in English), besides a recommendation letter and/or a list of referees (if possible), using the "Contact" button at the corresponding offer, at the "Join Us" area on BCMaterials' portal (https://www.bcmaterials.net/join-us). Your name and email address will be required for furher contact too.

Other Relevant Information
We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities. We offer and promote a diverse and inclusive environment and welcomes applicants regardless of age, disability, gender, nationality, ethnicity, religion, sexual orientation or gender identity.