Call reference number	(2026-28)
Call name	Postdoctoral researcher to work in electro- and magnetoelectric stimulation of brain cells (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 develop electro- and magnetoactive materials and characterize the response of cells of neural origin to the dynamic electro- and magnetoelectric stimuli in terms of metabolic activity and maturation. To this end, the researcher will design and perform live imaging experiments and functional assays (e.g., membrane potential generation, ion signalling).

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 or a related field.
* Strong background in biomaterials, cell-materials interaction, cell culture and biological assays.
* Experience in live imaging and ion channel physiology.

Desirable qualifications and experience:
* Experience in Neurobiology or related fields.
* Experience in biomaterials processing and cell materials interaction studies.
* Scientific publications in the field.
* Capacity for teamwork in an interdisciplinary and international environment.
* Self-motivation and willingness to perform independent research.
* Proficiency in speaking and writing in English.

Skills and Requirements
* Presentation skills and ability to meet the deadline are also required.

Work Program / Duties / Responsibilities
* Develop and characterise electro- and magnetoelectric composites, optimising their design and response. * Design and perform experiments to characterize the response of cells of neural origin to dynamic stimulations, including immunostaining, live imaging and functional assays. * Support the development of stimulation devices. * Evaluate device performance and material biocompatibility. * 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.