# IKUR NEUTRIONICS-MAGMAENA POST-DOCTORAL POSITION ON MAGNETIC MATERIALS FOR ENERGY APPLICATIONS

Call reference number	(2025-18)
Call name	IKUR Neutrionics-MAGMAENA post-doctoral position on magnetic materials for energy applications
Application Deadline	2025/05/28

### 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.

We are looking for a post-doctoral researcher with a background in Physics, Chemistry, Materials Science or related areas, with experience in the synthesis and characterization of magnetic materials, who will be working in a project devoted to the study of magnetic materials for energy production and efficiency, in close collaboration with the University of the Basque Country (UPV/EHU) and Tecnalia.

This position is funded under the IKUR neutrionics MAGMAENA project: magnetic materials for energy applications. The ideal starting date is 01/07/2025, and thr project's estimated ending on 31/12/2026.

#### Skills and Requirements

The candidate must have a PhD degree in Materials Science, Physics, Chemistry or related areas.

A background in condensed matter physics is desirable but not compulsory. Knowledge in advanced structural characterization techniques, in particular scattering-type ones, is also desirable.

Proficiency in speaking and writing in English.

Self-motivated and ability to work in a team and willing to coordinate the research in a particular topic.

A high level of motivation and independent thinking abilities.

Ability and eagerness to learn new skills outside his/her own discipline.

Presentation skills and being able to meet the deadline are also required.

#### Work Program / Duties / Responsibilities

This post-doctoral researcher position will be devoted to the upscaling of recycled, rare earthlean and rare earth-free permanent magnets. In particular, the post-doctoral researcher will be involved in the upscaling of the aforementioned permanent magnets through powder-binder and/or powder metallurgy methods, paving the way towards their implementation in devices for industrial applications. The researcher will be responsible of the structural and magnetic characterization of the upscaled permanent magnets.





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## **Application Procedure**

Apply by submitting a motivation letter and a CV (in English) 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.

The candidates must include contact details for 2 referees.

