

Call reference number	(2023-17)
Call name	Postdoctoral Research – Investigation based on Additive Fabrication Techniques for Functional Components Production
Application Deadline	2023/04/05

Introduction and main description
<p>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.</p> <p>We are looking for a post doctorate level researcher in the area of materials science for additive manufacturing. The contract will be until the end of the project, which has an estimated duration of 9 month.</p> <p>Additive manufacturing is gaining on its importance during the recent years. Therefore, new materials including the functional ones are being developed. Herein, the aim is to achieve new types of 3D printed functional components fully fabricated through the additive processes. For specific applications related to electromagnetic interference (EMI) control, it is necessary to develop new polymer functional inks, which must be transparent to radar. These inks need to be optimized both, from functional and fabrication technique point of view.</p>

Skills and Requirements
<ul style="list-style-type: none"> - PhD in Chemistry or Materials Science. - Robust knowledge and experience in the preparation of functional materials for additive manufacturing techniques. - Characterization techniques such as XRD, BET, SEM, TEM, FTIR, TGA. - Robust knowledge and experience in performing functional material synthesis. - Robust knowledge and experience in the characterization of electronic devices. - Strong scientific writing skill. - Fluent in English.

Work Program / Duties / Responsibilities
<p>Synthesis and characterization of new functional polymer composites for additive manufacturing. Radar-based prototype fabrication and characterization. Interpretation of the measured characteristics and device response testing.</p>

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 further contact too.

Other Relevant Information

Write as much as needed, relating evaluation process, dates of interest.