

Call reference number	(2024-17)
Call name	Post-doctoral researcher on muntifunctional bioinspired self-sensing coatings
Application Deadline	2024/12/10

Introduction and main description
<p>BCMaterials is searching for a motivated and experienced Postdoctoral Researcher for researching on multifunctional bioinspired self-sensing coatings with improved durability and low environmental impact.</p> <p>Biobased materials able to be textured and to detect pressure and temperature will be developed to act as active coatings in various technological environments. Materials able to self-detect damage by modifying electrical characteristics or other physical response will be also developed.</p> <p>Candidates with experience in the processing and characterization of protective coatings and/or self-sensing coatings are particularly welcome, as well as those with experience on environmental friendly materials for coating applications.</p> <p>This post-doctoral position is to work in the BISUM II project, funded by the Basque Government under the Elkartek program. The project funding will end on 31/12/2025.</p>

Skills and Requirements
<p>PhD in Physics, Chemistry, Materials Science or related areas.</p> <p>Demonstrated experience in any of the following fields: processing and characterization of protective coatings; processing and characterization of stimuli responsive materials for coating applications.</p> <p>Experience in electrical, mechanical and thermal characterization of materials, in the use of different facilities and data treatment will be valorized.</p> <p>A team player who can collaborate with other research groups.</p> <p>Demonstrated ability in technical writing for technical reports, scientific publications, and presentations.</p> <p>Excellent communication skills in English.</p>

Work Program / Duties / Responsibilities
<ol style="list-style-type: none"> 1. Materials selection and/or synthesis 2. Desing and development of stimuli responsive coatings in single layer and multilayer systems for targeted functional response 3. Evaluation of the functional response of the materials and structures. 4. Integration into functional applications.

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

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.