



Company Description

BC3 is a Research Centre on the causes and consequences of climate change. Led by one of the most recognized scientists in the Climate Change field -Prof. Maria José Sanz, we produce multidisciplinary knowledge to support decision making towards sustainable development at the international level. With a multidisciplinary team, connected to the main scientific institutions, networks and socio-economic agents, for a decade, our contribution to research of climate change and to the science-policy interface puts us in a unique position to offer knowledge, tools, new methodologies and cross-cutting proposals, that we lead towards action in a collaborative framework with stakeholders, to design and help implement policies aimed at sustainable development.

Information

 **Deadline:** 2022-08-07
 **Category:** Academia
 **Province:** Bizkaia

 **Country:** Basque Country
 **City:** Leioa

Company

BC3 Basque Centre for Climate Change



Main functions, requisites & benefits

Main functions

The Basque Centre for Climate Change (BC3) offers a full-time Postdoctoral Researcher Position within the Horizon Europe project BlueAdapt (GA 101057764 funded by HORIZON-HLTH-2021-ENVHLTH-02-03 call), a 4 year research project coordinated by BC3. The position will be located at the BC3 research group Health and Climate, within the Adaptation Lab research line. Bacterial and viral pathogens in coastal waters pose threats to health for a number of different agents – including occupational and recreational risks for activities in and around coasts. Under conditions of climate change, these risks are likely to increase for a number of reasons. For example, warming of the ocean is likely to influence the survival of bacteria and viruses. Exposure of humans to coastal waters may also change – as changing climates impact on human behaviour. Upstream, changes in pressures from wastewater, industry and agricultural processes may also influence the abundance of viruses and bacteria in our coasts. In this context, BlueAdapt attempts to provide an evidence base for innovation and action around coastal pathogens, by bringing together an interdisciplinary team of biologists, climate scientists, economists, epidemiologists and public health experts to investigate and quantify the future health risks associated with selected coastal pathogens, and identify adaptation measures through concrete case studies. BlueAdapt will also provide tools to assess the impacts of policy responses and communicate the results to a wide audience, including both policymakers and the public. The importance of keeping in mind the human-animal-ecosystem interface when assessing the evolution and emergence of public health threats is paramount. BC3 will therefore work towards the development of an "extended One Health" approach, to gain a wider perspective on the complex nature of the issue, and illustrating in a local case study (in the Bay of Biscay) how this approach can be used to co-produce knowledge and generate action. For these activities, BC3 is looking for a postdoctoral researcher who can support the Principal Investigator in the scientific and communication tasks along its 4 years of project life. Job description: The postdoctoral researcher will participate in various activities in the project. In the first phase of the project, the researcher will manage the development of the "extended One Health" conceptual framework, aimed at providing an understanding of the complex interlinkages between coastal pathogens, environmental pollution, climate change, human exposure and One Health, including demographic and socio-economic factors. In a second step, the researcher will test the theoretical framework at a pilot location by analysing context-specific One Health cause-effect relations and will develop cognitive maps through knowledge co-production in interviews and workshops with local experts. This will involve collaboration with academia, public administrations, decision-makers, the private sector, and other key stakeholders, to support the understanding of the underlying complexities, key sources of risk, driving factors, population vulnerabilities, behavioral aspects, equity, institutional barriers etc., as well as the identification of One Health adaptation measures and One Health indicators. The researcher will contribute to the production of dissemination material related to key concepts of the extended One Health. The researcher will also co-supervise a PhD student working on aspects related to the "extended One Health" and coastal pathogens, construction of the framework, concepts and applications. The researcher will support the PI and the rest of the team to achieve the scientific objectives of the project, to develop