

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:** 2025-08-29
 **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 technical staff position for JUST4CARE project (HORIZON-MISS-2024-CLIMA-01) to be based on-site at BC3. The successful candidate will provide cross-cutting research, data-science, and analytical support to advance climate-justice outcomes in the Horizon Europe project JUST4CARE, while extending and operationalising those results within the ARIES semantic-web platform. A key focus of ARIES (Artificial Intelligence for Environment & Sustainability) – A semantic-web infrastructure that combines machine reasoning, machine learning, distributed/high-performance computing and multi-paradigm system modelling to build computational solutions for environmental, policy and sustainability challenges. ARIES serves a fast-growing community of users from academia, governments, NGOs and industry. The goal of the RL is to provide environmental data, models and understanding by retrieving, evaluating, and integrating the existing information to support an effective policy-making where nature counts. Besides Ecosystem Services and Biodiversity, the RL also tackles Natural Capital Accounting, Conservation Finance, Food Security, Marine Spatial Planning, and Renewable Energy. All these products are used to inform sustainability decisions, e.g. SDGs. About the project: JUST4CARE (HORIZON-MISS-2024-CLIMA-01) – A Horizon Europe Mission project coordinated by BC3 that aims to transform climate adaptation by embedding justice, equity and resilience into urban and regional planning. The project places special emphasis on the needs of vulnerable and marginalised populations that are disproportionately affected by climate change across European cities and regions. Job description: We are looking for a geospatial data scientist who can conduct advanced modelling and spatial-equity analyses (e.g. urban heat-risk, flood exposure, socio-economic vulnerability), co-develop just adaptation indicators, and translate findings into actionable guidance for partner cities and regions. Key responsibilities: Specializing in urban risk and geoinformatics, the role involves developing and managing large, global datasets to support geospatial analysis. This involves designing and implementing data models capable of handling diverse and massive datasets, ensuring data accuracy, and developing efficient workflows for analysis. The role also requires collaborating with cross-functional teams to apply geospatial insights to urban planning, disaster risk reduction, and other relevant fields. Contribute to model development and data integration within the ARIES platform, working closely with a 25+- strong team representing diverse cultural and disciplinary backgrounds. Broadly contribute to the ARIES platform, a semantic web infrastructure that uses AI to build computational solutions to environmental, policy, and sustainability problems.

Requisites

Main requirements/skills: Suitable degree for developing the tasks of the job description (a master's degree at minimum; Masters or PhD (or equivalent international degree) or enrolled in a PhD degree program (or equivalent international degree); e.g. a degree in Computer Science, ICT, Geomatics, Ecoinformatics, Geography, Ecology, Biology. Domain-specific knowledge of and demonstrated research experience in one or more of the following areas: climate hazards, climate impacts on cities, quantitative modelling experience in other fields for which methodologies are transferable to understanding climate impacts. Proficiency in GIS software.