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: 2024-07-15
- Category: Academia
- Province: Bizkaia
- Country: Spain
- City: Leioa

Company

BC3 Basque Centre for Climate Change

bc³ BASQUE CENTRE FOR CLIMATE CHANGE
Klima Aldaketa Ikergai

Main functions, requisites & benefits

Main functions

The Basque Centre for Climate Change (BC3), offers a full-time technical scientific modelling position on the LIFE PYRENEES4CLIMA Project – LIFE22-IPC-ES-LIFE-PYRENEES4CLIMA/101104957 – dedicated to mountain biodiversity and ecosystem functioning to ensure that they deliver ecosystem services, goods and benefits and using the ARIES (ARtificial Intelligence for Environment & Sustainability) platform. BC3 involvement is focused on WP 5 – Subtask 5.1.1 (Duration: Oct 2023 – Apr 2027) dedicated to the development of a web application serving the modeled ecosystem services at the Pyrenean level and in the case studies (Pyrenees, pre-Pyrenees, and Baztan-Bidasoa regions). A key focus of ARIES is to integrate spatially explicit ecological and economic models to examine the link between ES and impacts on the socioeconomic status but also on environmental outcomes. Furthermore, to analyze potential future consequences of alternative land uses for both nature conservation and economic objectives. By developing spatially explicit models and incorporating in the analysis landscape scenarios it is possible to study the effect of changing features on ES dynamics. Analyzing the spatial dynamics of ES can provide a complete understanding of the supply and flows of particular benefits for specific beneficiary groups and enable to evaluate better trade-offs in environmental management. The ARIES platform supports all activities of BC3 Research Line (RL) 5 on Integrated Modelling of Coupled Human-Natural Systems. The https://aries.integratedmodelling.org/, is a semantic web infrastructure that uses AI to build computational solutions to environmental, policy and sustainability problems. The RL generates multidisciplinary scientific knowledge from human-nature interdependence to address complex sustainability problems through artificial intelligence (AI). 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: LIFE-SIP PYRENEES4CLIMA Project aims to implement the first cross-border climate change strategy in Europe led by 6 regions and one state. The strategy targets a mountain range, the Pyrenees, with one of the highest biodiversity value in Europe and where the recent documented increase in recent temperature has been higher than the global average with measurable impacts on surface processes, natural resources and economic activities. Job Description: We are looking for a modeler and project coordinator profile who can manage and implement research projects dedicated to mountain ecosystem services and the development of the related ARIES technical tasks. Key Responsibilities: To head the scientific coordination of BC3 participation in the LIFE PYRENEES4CLIMA Project. To head and coordinate model development and data integration within ARIES platform. To coordinate project meetings with LIFE PYRENEES4CLIMA Project collaborators. National and international travelling and participation to LIFE PYRENEES4CLIMA Project related meetings when required.

Requisites

Main Requirements/Skills: Suitable degree for developing the tasks above (a master's degree at minimum). Previous experience in