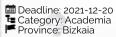# POSTDOC IN ECOSYSTEM SERVICES MODELLING AND NATURAL CAPITAL ACCOUNTING

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: 2021-12-20
- Category: Academia
- Province: Bizkaia
- Country: Basque Country
- 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 postdoctoral scientist position on Modelling and Natural Capital Accounting in order to support the research activities of Research Line (RL) 5 on Integrated Modelling of Coupled Human-Natural Systems. 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 in order to support an effective policy-making where nature counts. Besides Ecosystem Services, the RL also tackles Natural Capital Accounting, Conservation Finance, Food Security, Marine Spatial Planning, and Renewable Energy. Job description: The position will support the ongoing application and expansion of the ARIES for SEEA platform. ARIES for SEEA is the result of a collaboration between BC3, the UN Statistics Division, UN Environment Programme, and other international organizations. Released in April 2021, ARIES for SEEA has already been applied in multiple countries around the world, and is under continuous development. The postdoctoral scientist will contribute to the ARtificial Intelligence for Environment & Sustainability (ARIES) platform, a semantic web infrastructure that uses AI to build computational solutions to environmental, policy and sustainability problems. The position's duties will include (1) development and testing of new SEEA-compliant ecosystem service models and (2) working with governments and other stakeholders around the world to apply ARIES for SEEA in developing national SEEA accounts, by training these teams and working with them to improve and customize their accounts using national data and models. The position will require international travel on an as-needed basis.

Requisites

Experience/skills required: We are looking for an individual who can support strategic activities related to integrated data science and collaborative, integrated modelling on the semantic web, with a focus on ecosystem service modelling and the System of Environmental Economic Accounting – Ecosystem Accounting (SEEA EA). Desired qualifications include: A PhD in Economics, Ecology, Geography, Engineering, Hydrology, or other fields relevant to the position. Strong analytical skills and an ability to learn quickly and to think outside the box. Our work is very innovative and you should expect your job to be both as intellectually challenging and as rewarding. A strong motivation and a desire to learn and explore new technologies are a must. Familiarity with (minimum) and past experience using (preferred) the SEEA EA. Experience with environmental/ecosystem service modelling. Working knowledge of geomatics and, in particular, open source GIS. Knowledge of OGC services, Geotools, Geoserver is considered a plus. Programming experience in any language, Java is considered a plus. Excellent interpersonal and communication skills. Excellent written and oral command of English. French language skills are considered a plus. Ability to work independently, with a diverse, multi-location and multi-lingual team.

Benefits