



Research technician in data science applied to aquatic and coastal ecosystems

Job description

We are looking for a candidate with a background in data science and environmental modelling to join a coastal ecology research team. The selected person will work on projects related to water quality and blue carbon, with a strong quantitative and interdisciplinary component.

The position is funded by two complementary projects within the framework of coastal management:

- 1. NEREIDA:** development of predictive models (machine learning) for coastal water quality by integrating hydrological models of the Tordera and Ter river basins with observational monitoring data on Water Framework Directive metrics ([further information](#)).
- 2. BlauCat:** Spatial modelling (machine learning) of blue carbon stocks and fluxes in coastal ecosystems, particularly seagrass meadows ([further information](#)).

The contract (12 months in total) will be developed sequentially between both projects, maintaining an integrated and coherent line of work. The position is conceived as a single role, with a cross-cutting vision that allows exploiting methodological and conceptual synergies between the two projects.

Main tasks of the selected candidate

The selected person will work across both projects and will carry out tasks such as:

- Analysis, integration, and structuring of large environmental datasets (temporal and spatial).
- Development of statistical and machine learning models applied to hydrological, biogeochemical, and ecosystem processes.
- Model validation, uncertainty analysis, and comparison of different predictive approaches.
- Development of reproducible and well-documented workflows.
- Analysis and interpretation of results, report writing, and contribution to scientific publications.

Professional profile

Essential requirements

- Degree in Environmental Sciences, Environmental Engineering, Data Engineering, Biology, Marine Sciences, Geography, or related disciplines.
- Master's degree, postgraduate qualification, or expertise in data science, machine learning, environmental modelling, or related fields.
- Demonstrable experience in developing *models* applied to real-world data.
- Good command of R and/or Python programming.



- Ability to work independently and within interdisciplinary teams.

Desirable

- Prior experience in aquatic systems (rivers, reservoirs, or coastal ecosystems).
- Motivation to write and/or contribute to scientific publications.
- Experience in temporal and/or spatial data analysis.
- Good command of English (oral and written).
- Knowledge of environmental assessment (e.g. Water Framework Directive), biogeochemistry, and/or blue carbon.
- Experience in managing large volumes of data.

Working conditions

- Full-time contract for 12 months (covering participation in both projects).
- Annual gross salary of approximately €32,000. M3 contract, according to CSIC salary scales.
- Flexible working hours to support work-life balance.
- Collaborative and interdisciplinary work environment, with interaction between ecologists, modellers, and data scientists.
- Professional development opportunities and participation in research applied to real environmental problems.
- Workplace: Centre d'Estudis Avançats de Blanes (CEAB-CSIC), Blanes (Girona), with flexibility for partial remote work (1–3 days per week).

How to apply

Send your **CV** and a **cover letter** (maximum 2 pages) explaining your interest, suitability, and how you meet the specified requirements to jpagues@ceab.csic.es, with the subject: "NEREIDA-BlauCat + First and Last Name(s) of the applicant"

Application deadline: 22 May 2026

Estimated start date: 1 July 2026