

## *Job offer*

<b>Name of the position</b>	<b>Number of positions</b>	<b>Type of the contract</b>	<b>Duration of the contract</b>
Software Engineer for the Blue-Cloud2026 project at SOCIB	1	Full-Time job	Contract linked to the European Union's Horizon Europe <b>Blue-Cloud2026</b> project

### **Object of the contract**

In the framework of the EU Horizon Blue-Cloud2026 project, SOCIB is developing a data workflow aiming to produce added value products from ocean glider missions. The added value products will address scientific questions from coastal ocean observations along Europe. The workflow will be implemented within a 'so called' Virtual Lab included in the Blue-Cloud VRE (Virtual Research Environment). The workflow components will spread across all the added value chain and will include processing toolboxes, metadata management, standard data format generation and interactive visualizations.

The applicant will also support the integration of the JERICO e-infrastructure within the Blue-Cloud system and will ensure the alignment of the above mentioned data workflow with such as integration when applicable.

In addition, the purpose of the vacancy includes supporting SOCIB scientists, engineers and data managers to achieve the above mentioned objectives in the framework of both, the current SOCIB Strategic Plan 2021-2024, and the recently approved SOCIB Plan 2023-2026 and SOCIB 2023 Plan.

### **General regulations**

The selection process will be carried out with respect to the constitutional principles of equality, merit, capacity, transparency and concurrence.

### **Name of the position**

Software Engineer for the Blue-Cloud2026 project at SOCIB

## **Tasks and responsibilities**

- Development of the components of the data workflow and implement its inclusion within the Blue-Cloud Virtual Lab.
- Support the design and analysis of the necessary software components and related architecture.
- Generation of documentation required by the Blue-Cloud2026 coordinators in relation to the tasks in which SOCIB participates.
- Support the scientific and technical teams in charge of both glider operations and data products development, to ensure the BlueCloud2026 requirements are met.
- Execute full lifecycle software development with focus on DevOps paradigms, and thus able to manage and deploy appropriate tools (e.g. GitLab).
- Programme well-designed, testable, efficient code.
- Produce specifications and determine operational feasibility.
- Develop flowcharts, layouts and documentation to identify requirements and solutions.
- Develop software verification plans and quality assurance procedures.
- Document and maintain software functionality.
- Troubleshoot, debug and upgrade existing systems.
- Deploy software components and evaluate user feedback.
- Comply with project plans and industry standards.
- Ensure software is updated with the latest features.
- Stay plugged into emerging technologies/industry trends and apply them into operations and activities.

## **Academic and professional requirements**

BSc in Computer Science, Engineer, Mathematics, Physics or relevant field.

## **It will be valued the following**

Required:

- At least 5 years experience as a software developer.
- Advanced knowledge in: Java or Python. Databases (postgresql, mysql). Bash (ssh, cron, rsync, ...). Unix systems. Git version control system.
- Experience with containerization, i.e. Docker and Docker-compose (or an equivalent orchestration tool).
- Advanced knowledge in object-oriented programming.

- Advanced knowledge in REST API development.
- Knowledge in DevOps tools (e.g. GitLab).
- High level of English (written and spoken).

Preferred:

- Good background in physical oceanography and/or meteorology, ocean dynamics and ocean variability, data processing, data analysis, anomalies computation.
- Experience developing web UI using state-of-the-art software frameworks and libraries (e.g. Bootstrap, Angular, Vue, React).
- Experience developing workflows with Jupyter Notebooks.
- Knowledge of Agile software development methodologies.
- Knowledge of geospatial technologies and earth observation standards (CF-Convention, NetCDF, WMS, WCS, ISO).
- Experience with log collection technologies (ELK, Fluentd,...).
- Knowledge of other programming languages: Octave, Matlab, R, C, C++.

## **Start date for receipt of applications**

Applicants are allowed to apply as soon as the vacancy is published in the SOCIB corporate website.

## **End date for receipt of applications**

The vacancy will be open until there is a successful candidate.

## **Workplace**

Sistema de Observación y Predicción Costero de las Illes Balears (SOCIB). Calle Isaac Newton, Edificio Naorte, Bloque A, 2º piso, puerta 3, Parc Bit, 07122 Palma, Mallorca, Illes Balears, España.

## **Data Protection**

According to article 5 of Organic Law 3/2018, of December 5, Protection of Personal Data and guarantee of digital rights, the members of the Selection Board are bound by the duty of confidentiality and professional secrecy regarding the data of personal nature that they could treat for the development of their functions in the present selection process.

For the purposes of communications, queries and other incidents, they may be sent, by email, to the address [protecciondatos@socib.es](mailto:protecciondatos@socib.es). The information related to the call will be available on the corporate website of the ICTS SOCIB: [www.socib.es](http://www.socib.es).

## **How to apply**

Interested applicants should send a CV together with a short cover letter highlighting their experience and skills related to the position to [Blue-Cloud2026-position1@socib.es](mailto:Blue-Cloud2026-position1@socib.es).

In case of having published code, please indicate the URL of the repository where it is located in your email, as well as the URL of profiles in social networks of programming like github, bitbucket, stackoverflow. The appointment is until the end of the project (June 2026) with a salary pending on qualifications and experience.