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## JOB OFFER: Euro-Argo Information Technology Developer



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**Institute:** EURO-ARGO ERIC, ZI du Technopôle Brest Iroise, 1625 route de St Anne, 29280 Plouzané, France

**Supervisor:** Roamin Cancouët – Operations officer

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### Context:

The [Euro-Argo ERIC](#) is a European Research Infrastructure Consortium with a legal statute registered at the European Commission since May 2014. Euro-Argo aims to ensure the sustainability of the overall European contribution to the Argo international programme – deploying and maintaining a global network of autonomous oceanic instruments (profiling floats) that measure essential ocean variables. This global fleet is an essential contribution to the monitoring of climate change and ocean health, for both the scientific community and the operational users.

Euro-Argo is hosted by [Ifremer](#), the major French research institute devoted to marine research, which is also managing the data collected by the Argo programme, playing a major role in making them openly and freely available. Euro-Argo and Ifremer develop collaborations with other Research Infrastructures as a contribution to the European Ocean Observing System. Contributing to this objective, the European project [AMRIT](#) - Advance Marine Infrastructure Together - aims to develop a dashboard to support the European Marine Research Infrastructures in their operational tasks and to set up environmental data management services on the European Science Cloud (EOSC).

As we need to further develop discovery and visualisation services for this “ocean” of scientific data (millions of metadata, billions of observations), in the framework of the AMRIT project, Euro-Argo is opening a position for an IT developer, with strong attraction by the challenges of the sea.

### Missions:

She/He will be assigned the task of studying, evaluating and implementing data-metadata analysis, discovery and visualisation tools on the European EOSC cloud and bigdata infrastructure. Some activities will be carried out using Agile methods as part of a European development team (France, UK, Italy, Germany, Unesco OceanOPS).

### Activities:

- Participate, with the Agile development team, in “scrum sprints”, i.e. co-develop with collaborative tools on well-defined objectives during short time periods;
- Integrate developments on the DevOps infrastructure run with Ifremer;
- Specify and implement data processing for statistical, monitoring and quality assurance purposes;
- Develop and evolve user-friendly interfaces to enable intuitive data exploration and reporting tools (dashboards, graphs, interactive maps);
- Manage data from our bigdata infrastructure

### Expected skills / Technical competences / Knowledge:

- Languages: Python (Dash, FastAPI), Java (Spring, Spring Boot), Javascript (Angular, ReactJS)
- DevOps : Docker, GitLab, CI
- Graphical library: Javascript Apache ECharts <https://echarts.apache.org/en/index.html>
- API : REST, GraphQL, services OGC

- Data formats: ARCO (Analysis Ready Cloud Optimized);
- Proficiency in English language.

#### Experience and Education requirements:

- IT specialist with a master degree or engineering degree;
- Highly motivated student in apprenticeship pathway.

#### Personal Qualities:

- Proven organisation, keen in working in team and under tight deadlines, and within an international environment context;
- Appeal for marine science and its applications.

#### Working Environment:

Fixed term 18-month position, based at the Euro-Argo ERIC Office, Plouzané, France in the premises of Ifremer, on the International Campus of the Sea. Possibility of developing into a long-term position if the skills attached to the team lead to a financially sustainable activity.

The candidate will integrate into an 8 person team: a Director General, an Operations Officer, a Science Officer, a Data Scientist, a Communication Officer, a Project Officer, a Policy adviser and an Administrative Assistant. She/he will also tightly collaborate with the Global Data Manager of Ifremer, Thierry Carval, and his IT development team.

Mainly office desk activities, with a high level of active participation (in person and remotely) to meetings.

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#### Application:

Please send a Resume and Cover Letter to: [contact@euro-argo.eu](mailto:contact@euro-argo.eu)

Language: English

Format: pdf files

File naming: EA-2024-ERIC-*lastname*-resume.pdf and EA-2024-ERIC-*lastname*-letter.pdf

**Deadline for application:** August 23<sup>rd</sup> 2024

**Interviews** will be organised in September

**Start:** October 2024

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#### More information:

Romain CANCOUET

Euro-Argo ERIC Operations Officer

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