

Data Scientist Position at the EURO-ARGO ERIC OFFICE (M/F)

Contract type: Fixed-term contract (12 months, potentially renewable up to 18 months in total)

Start: October 2022

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

Responsible ► Yann-Hervé De Roeck, Director

Context: The Euro-Argo ERIC is a European Research Infrastructure Consortium with a legal statute registered at the European Community since May 2014. The Euro-Argo Research Infrastructure (RI) aims to ensure the sustainability of the overall European contribution to the Argo international programme – deploying and maintaining a global network of oceanic profiling floats. The Euro-Argo RI federates the national contributions to the international Argo programme (<http://www.argo.ucsd.edu/>). The Euro-Argo ERIC is also in charge of:

- the overall European coordination,
- the support to deployment activities,
- the European fleet monitoring,
- the survey of the data flows to the European Data centres (Coriolis, BODC) and Argo Global Data Assembly Centre (GDAC), the modelling facilities (European Copernicus Marine Service and National Operational Services) and the European databases (SeaDataNet, EMODnet).

In the scientific domain, Euro-Argo missions are 1/ to promote and coordinate the Euro-Argo strategy and to develop an implementation plan within the Argo international context, 2/ to promote the scientific results achieved by Euro-Argo partners, and 3/ to coordinate joint scientific activities that have been defined by the Euro-Argo management board and endorsed by the council. Some of these activities are carried out within European projects.

In the frame of its involvement in data activities within the ENVRI-FAIR H2020 EU project, the Euro-Argo ERIC office is opening a fixed-term data scientist position to reinforce its team.

Missions: Developing new tools, the recruited person will contribute to metadata and possibly data analysis of oceanographic (temperature, salinity and biogeochemical measurements) Argo data. In particular, she/he will take advantage of the ENVRI-FAIR improvements of the Argo (meta)data FAIRness to further develop the coherence and consistency of Argo metadata with OceanOPS and other marine Research Infrastructures. She/he will support Euro-Argo in monitoring the quality of the Argo dataset and propose appropriate Key Performance Indicators and methods/routines to compute them on a regular and automatic basis. Production of code, scripts and reports is expected.

Interactions: The successful candidate will work under the supervision of the Euro-Argo Science Officer and the Operational Engineer. He/she will also interact with the Argo Information Centre hosted at OceanOPS, European Argo data Centres (BODC in the UK and Coriolis/Ifremer in France), Euro-Argo members, other Marine Research Infrastructures and with European and international partners involved in Argo data quality control.

Activities ► Within the Euro-Argo ERIC, the person recruited will be in charge of:

- Performing detailed analysis and update/improvement of the Argo metadata information, in link with Argo platforms and sensors manufacturers;
- Developing tools to routinely monitor Euro-Argo data availability and quality, in collaboration with the Argo Information Centre (OceanOPS);
- Monitoring the status of Argo Delayed Mode Quality Control in Europe for all measured variables;
- Participating in the analysis of Argo technical data such as *Ice Sensing Algorithm* thresholds, information provided in the trajectory files, etc.
- Monitoring, making propositions and development of routines for automation of statistics regarding the Abrupt Salinity Drift (ASD) issue, in collaboration with the international ASD Working Group.

Educational Requirements:

- Engineering/Master Degree or PhD in one of the following domains: environmental sciences, applied mathematics, statistics.
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Expected skills: The candidate will be asked for:

- Very good scientific programming ability in one of the common computing environments and language. Knowledge of MATLAB or Python, and collaborative development platforms would be a real asset.
- Experience in large datasets analysis
- Good level in scientific English (written and spoken)
- 1 to 2 years' experience desirable

Personal Qualities:

- Rigour and accuracy abilities
- Autonomy in the work environment
- Good interpersonal skills, including ability to work in a small team

Working Environment:

- Fixed term 12 months position based at the Euro-Argo ERIC office, Plouzané, France.
- The candidate will integrate the Euro-Argo ERIC Office team of 7 persons.
- Mainly office desk activities.
- Some professional travels could be envisaged (workshops, etc.).

Application:

- Please send a Resume and Cover Letter to: contact@euro-argo.eu

Application format:

- Language: English
- Format: pdf files
- File naming: **EA-2022-*your lastname*-resume.pdf**
and **EA-2022-*your lastname*-letter.pdf**

Application Deadline: 15 August 2022

More information:

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