

IEEE-France is offering a call for a 2-year Service Agreement contract

Opportunity

Participation in the development and evolution of best practices for ocean information within the framework of the ObsSea4Clim project, under the responsibility of: Rene Garello, Professor Emeritus (r.garello@ieee.org) and in collaboration with IEEE-France team.

Due date for response: November 4 2024

AREA OF EXPERTISE

Physical oceanography, in-situ observations, data management, climate change

MISSION

IEEE-France is looking for a young research project candidate in oceanography as part of a European-funded project, ObsSea4Clim (<https://obssea4clim.eu>). The aim of this project is to provide an improved framework for national contributions to European ocean observations of Essential Ocean Variables/Essential Climate Variables (EOV/ECVs). The project will be based on regional and global climate assessments, projections and indicators that can be used for sustainable development.

The successful candidate will play a role in the project application of the **Rolling Review of Requirements**¹ (RRR) and lead in facilitating the development of best practices and standards for interoperable in-situ and satellite observing. In the centre of the ObsSea4Clim science strategy is data and product interoperability, where quality standards or best practices are part of the foundation for the EOV/ECV framework implementation to further develop the complementarity of multiplatform in-situ, modelling and satellite data and derived EOV/ECVs.

MAIN ACTIVITIES

EOV/ECV descriptions in GOOS and GCOS include both the variable descriptions and the methods used to observe the variable and manage the relevant data. These methods should address both the values and uncertainties from observations and data management as well as promoting interoperability at national, regional and global scales, furthering trust among end users of ocean information. The incumbent will contribute to identification and evolution of standards and best practices within the ObsSea4Clim project for six ocean climate application areas (sea ice, ocean currents and mass transport, ocean stratification, sea level, ocean warming and marine heat waves, and ocean mesoscale dynamics) to facilitate the use of international quality and accessibility best practices for existing and proposed EOV/ECVs. The activities include, for example, a process maturity model/metric to assess the readiness for operational or larger scale implementation of best practices, improvements to facilitate the discovery and access of best practices through the Ocean Best Practices System, and evolution of a network that will be designed to enable the access to methods (best practices and standards) from major methodological repositories. This effort will also include examination of the quality indicators for in situ observational data for estimating EOV/ECVs fitness for purpose.

EXPECTED COMPETENCES

Degree: Master's degree or equivalent in oceanography, meteorology, climatology or related physical sciences. A PhD would be an advantage.

Professional experience: Experience in the use of, or in the planning, management and coordination of ocean observation activities, preferably at international level, would be an asset. Understanding of data flows and methods of observation is desired.

¹ RRR: <https://community.wmo.int/en/rolling-review-requirements-process-2023-version>) of the World Meteorological Organization (WMO: <https://community.wmo.int/en>)

EXPERTISE

Understanding of ocean observing systems and climate-related communities. Proven ability to write documents and reports. Good analytical, communication and interpersonal skills. Sound judgment, initiative and creativity. Good knowledge of English (oral and written) is desirable.

TECHNICAL SKILLS

Under the supervision of the Scientific Manager of this component of the project, the incumbent will perform the following tasks:

- a) Engage in the RRR process within the ObsSea4Clim project including identifying the practices needed to support the requirements coming from the RRR.
- b) Working with the ObsSea4Clim application areas, facilitate the evolution and maturity of international best practices for existing and proposed EOV/ECVs
- c) Coordinate the design of a Federated network to enable the single point access for discovery and access to methods (best practices and standards) of major methods repositories;
- d) Support the evolution of the Ocean Best Practices System (www.oceanbestpractices.org) to better incorporate the ObsSea4Clim requirements and outcomes. This includes a process to determine the degree of uptake of best practices and standards.
- e) Lead in the preparation of meetings, workshops and the drafting of supporting documents and reports of meetings and workshops;
- f) Play an active role in facilitating the integration of ObsSea4Clim project work above into GOOS EOVs and work streams.

ORGANIZATIONAL SKILLS

Ability to plan, organize and manage work with minimum supervision. Ability to work in a multicultural and multi-disciplinary environment and to foster diversity and team spirit.

EMPLOYMENT

- Form of employment: 2-year fixed-term IEEE Service Agreement contract.
- Scope:
 - Remuneration is dependent on experience and will be in the range of 2400 to 2800 €/month flat.
 - This remuneration will be paid through an IEEE Service Agreement.
 - The incumbent will have to cover their health and social insurance requirements.
- Work place: Virtual
- First day of employment: After agreement signature (approximately November 23, 2024)

THE WORKING ENVIRONMENT

IEEE-France has 3000 members with many links to both industry and universities. It has experts and experience in oceanic engineering, sensors, systems, best practices and standards. Globally, IEEE is the world's leading professional association for the advancement of technology with more than 400,000 members in over 162 countries. The IEEE is a major international standards organization with over 900 active IEEE standards. IEEE has played an active role in GEO and GEOSS through management and contributions to architecture and interoperability development, GEO data sharing and data management activities. IEEE led an international team for the ocean best practices system (OBPS) and applications development. IEEE has worked with GOOS and other European organizations in the identification of best practices for EOVs. IEEE brings this expertise to the management (co-lead) and outcomes of WP 2 on "EOV and ECV Framework"

CONTACT INFORMATION

If you have any questions about the position, please contact Prof. Rene Garello (r.garello@ieee.org)

APPLICATION

Submit your application by email to r.garelo@ieee.org. The application should be sent in English and contain:

- A one-page cover letter outlining your ambitions for the outlined position and relevance to the position description must be included.
- ID
- CV
- Copy of diploma

Final date for submission, November 4 2024