



Mercator Ocean International has been a pioneer in operational oceanography activities for nearly 25 years through its public service mission to preserve the ocean. Many scientific and societal challenges need to be met in order to ensure a sustainable ocean, whether they relate to the environment, biodiversity, climate change, the blue economy or education. To meet these challenges, we are required to constantly and in real time describe, analyse and forecast the state of the global ocean using reliable numerical models, then make this information relevant and accessible to all — whether public or commercial services, manufacturers, policy makers, associations, NGOs, teachers or citizens.

Mercator Ocean International thus combines scientific excellence and social commitment on a daily basis. As a non-profit company under multinational governance (ES, FR, GB, IT, NO), we work in a climate of trust with our [nine shareholding partners](#), all key players in the development of European oceanography.

For five years, Mercator Ocean International has been conducting the Copernicus Marine Environment Monitoring Service on behalf of the European Union. CMEMS offers free, open access to scientifically validated operational information on the ocean to several thousand subscribers worldwide. To this end, the company coordinates a unique network of around 100 partners in Europe specialising in Earth observation and ocean forecasting.

Based near Toulouse in South-West France, the company's 100 or so employees are all committed to achieving the United Nations' sustainable development goals.

We are looking for new talent with similar objectives. Our operational oceanography department is offering a permanent contract to someone with the following profile:

### **Cloud Services Architect (M/F)**

You will work in Mercator Ocean's Operational Engineering department, where you will be in charge of defining and designing the software needed for providing services via Cloud technologies for users of operational oceanography products or those in related fields. The current Cloud services are used to enable access to the entire Copernicus Marine Service database and, as part of DIAS/WEkEO, to interconnect all Copernicus services; they will be substantially developed to offer users a more efficient, user-friendly and flexible service.

- You will be the reference person for Cloud technologies at Mercator Ocean, in particular for choosing and defining upgrades of the technologies used for these services and how best to implement them.
- You will design the architecture of the Cloud services, ensuring overall consistency between the different services and technologies used.
- You will suggest and develop certain Cloud-based services.
- You will contribute to the operational reliability and performance of the existing Cloud services.



- You will maintain a technology watch on Cloud technologies, associated services and Big Data methods, particularly as regards operational oceanography and its related fields.
- You will work closely with the people in charge of services and operations at Mercator Ocean and with external service providers.

To qualify for this position, you must have completed five years of higher education or a doctorate and have a minimum of 3 years of professional experience, particularly in the development of Cloud services. You must be familiar with Cloud environments, Application Programming Interfaces (APIs), Docker and Kubernetes and you must understand the challenges, and also be proficient in programming languages such as Python, Java, NodeJS or Go, and have a sound knowledge of web technologies; competence in machine learning and artificial intelligence would be an additional asset. Knowledge of the standards regarding the distribution of oceanography products (or other environmental products) and familiarity with scientific issues would be a plus. You must have a good technical and strategic vision and be able to make proposals for drawing up a roadmap of future improvements to the services. Good interpersonal skills, good communication skills and the ability to listen to and persuade others will be an asset for this team-based position, involving many internal and/or external partners. You must speak and write English fluently; experience abroad or in participating in international projects would be appreciated.

Keywords: Operational oceanography, Cloud, full stack, technology watch, DevOps, API, Docker

Send your cover letter and a detailed CV with the following reference 2019-07/IO/AC to [recruitment@mercator-ocean.fr](mailto:recruitment@mercator-ocean.fr) by 15/09/2019 at the latest.

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