



Oceanographer, global ocean biogeochemistry validation (M/F)

**12 months fixed term position
full time position**

About the job :

Within the Operational Oceanography department, Mercator Oc an runs global coupled physical and biogeochemistry numerical experiments, as well as marine ecosystem applications.

In this context, you will analyze the results for the physical and biogeochemical ocean:

- You will write a validation procedure for the physical/biogeochemical/biological long numerical experiments, including for the specific case of oceanic climate projections.
- You will validate the simulations by focusing on certain ocean regions (in particular the tropical band) and on certain variables (in particular the ocean circulation, surface temperature, main nutrients and primary production), seasonal variability and representation of certain trends will be more particularly studied.
- You will prepare the databases (format, associated documentation) for provision to users within the framework of projects and partnerships, and carry out the previously defined compliance tests.

About you:

- After five years of higher education in engineering, you have strong skills in oceanography, fluids mechanics, numerical analysis and developed proficiency in ocean modeling, ocean observations, and in programming languages (Python, FORTRAN ...).
- You have experience in using numerical model outputs.

Assets to succeed include:

- Rigorous, curious, well-organized and responsive, your skills and your ideas will contribute to ambitious projects and to international collaborations.
- You speak and write English fluently.

Who are we ?

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.

Mercator Ocean International has been conducting the Copernicus Marine Environment Monitoring Service since 2014 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 contributors are all committed to achieving the United Nations' sustainable development goals.

How to apply :

Send your cover letter and a detailed CV with the following reference 2022-03/OO/OVB to recruitment@mercator-ocean.fr

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Keywords: Operational oceanography, biogeochemistry, climate and ocean projection, observations, validation