

## Permanent position for ocean modeller at Nologin Consulting (NOW Systems)

Nologin Consulting is looking for new talent on ocean modelling. The operational oceanography department of NOW (Nologin Ocean Weather Systems) is recruiting an expert ocean modeller for a permanent full-time position, associated to the EU Copernicus Marine Service.

### *About the Company:*

Nologin Consulting is a Spanish company established in the year 2000 that actively works with companies around the world, helping them on the digital transformation with a complete value proposition, including the development and deployment of innovative structural solutions. Through **NOW** (Nologin Ocean Weather Systems), its environmental division, provides services for a more sustainable and cost-effective management of the activities developed in the marine environment.

Nologin is currently a Copernicus Marine service provider and, among other activities, is co-leading (with Mercator Océan International) and delivering the operational forecasting service of the Iberia-Biscay-Ireland Monitoring and Forecasting Center (IBI-MFC) that is based on ocean circulation, waves and biogeochemistry model applications.

### *About the job:*

The work will be developed in the framework of the Copernicus Marine Service and, more specifically, in its regional IBI-MFC component, and will imply a close collaboration with the other IBI-MFC partners (Mercator Océan International, Météo-France and CESGA).

He/she will conduct part of the required research and operational tasks linked to the IBI-MFC ocean model applications used to generate the IBI modelled (Near-real-Time and Multi-Year) product portfolio. Being responsible of tasks related to ocean modelling and product quality assessments aimed at improving the regional and coastal IBI model operational performances on European Atlantic shelves.

The candidate will be in charge of:

- evolving IBI operational model applications (including R&D activities related to the design of model sensitivity tests with the IBI NEMO/PISCES model applications).
- Participating in the process of transitioning into operations new PHY/BIO model configurations, providing technical support to the IBI-MFC Operational Team to ease future releases of the IBI-MFC ocean forecast and multi-year (including interim stream) services.
- Assessing test model solutions generated by ad-hoc updates of the present IBI operational applications (used as reference solution) to evaluate potential added value of potential IBI upgrades (specially on targeted on-shelf and coastal areas).
- Extending IBI on-line validation capacities (specially on BGC) to targeted coastal areas using expected new observational data sources to be available. The use of the present IBI-MFC validation tool will be required, and the selected candidate will collaborate with the IBI-MFC Product Quality Team.

- Collaborating (exchanging data and expertise) with other related R&D projects or coastal downstream services nested into the IBI model solutions.
- Producing technical reports on the model developments and experiments carried out, valorising the scientific results obtained (by participating in the drafting of scientific papers, and by presenting results in scientific and technical workshops).

*Qualifications, experience, and assets to have:*

The ideal candidate has:

- a relevant degree (PhD positively valued) in physics/oceanography/meteorology or other closely related discipline (such as environmental or coastal engineering and marine science)
- experience in ocean modelling (ideally with the NEMO/PISCES model, or with other ocean models such as ROMS, CROCO, or coastal unstructured-grid models)
- experience in assessing ocean model outputs using in-situ or Earth Observation data sources
- good programming skills (in particular in languages such as Fortran, Python and Linux shell scripting).
- gained experience in implementing/delivering operational forecasting services on HPC environments (to be highly valued).

He/she is a rigorous, creative team worker wishing to contribute with ideas to an ambitious international framework of research projects related to the pan-European operational oceanographic Copernicus Marine services.

He/she has good English language skills. His/her fluency in Spanish is also valued.

Finally, he/she has a strong interest in performing R&D activities closely linked to the evolution of operational forecast services. He/she will have the opportunity to work in a highly multidisciplinary environment, in close collaboration not only with other Nologin (NOW) staff from the IBI-MFC Team but also with other ocean modelers and data assimilation researchers.

The selected candidate will work with flexible working arrangements (such as telework and flexible schedules) keeping links with the different Nologin premises in Spain (Madrid, Zaragoza, Santiago).

The successful candidate will be recruited by Nologin Consulting S.L.U. following its recruitment principles. Remuneration commensurate with qualifications and experience.

Interested candidates are invited to apply on-line, sending cover letter and C.V. through the following application form: [https://nologin.factorialhr.es/job\\_posting/position-on-ocean-science-16689](https://nologin.factorialhr.es/job_posting/position-on-ocean-science-16689). Closing date is June 30<sup>th</sup>, 2022.