

## Post-doctoral position offer

As part of a European France-Italy Marittimo project, Seastemar, the physics team of the MIO laboratory in Toulon (France) is looking for a young researcher/engineer for a 2-year position.

The project addresses the risks to navigation related to the presence of large cetaceans and sensitive species, and poorly predictable weather and sea phenomena, also in relation to variability linked to climate change. The cross-border maritime space comprises areas that are particularly subject to the above-mentioned risks and characterized by intense maritime traffic, given the presence of important commercial, military and tourist ports. The objective of the project is to bring about operational and shared solutions that enable both stakeholders and sea users in general to deal more consciously and promptly with the risks associated with shipping. The project will lead to the development of real-time warning systems, data sharing protocols and the development and implementation will be monitored by a cross-border working group, involving important institutional partners.

The main task of the physics team at MIO (University of Toulon) will cover the analysis of data acquired during the previous program, from a hydrological and ocean dynamics perspective to link them to observations on marine mammals. The fusion of data (numerical models, satellite and in situ observations) will be able to provide a classification of species distribution based on meteorological and marine scenarios. Specific marine campaigns for validation will be conducted with the other partners.

We are looking for a candidate with a solid background in physical oceanography or related marine sciences. Candidates already holding a Ph.D are encouraged. Previous experiences on ocean general circulation models, data processing or machine learning applied to geophysics will be appreciated. English or French or Italian B2 level is required. Candidates should be particularly sensitive to environmental protection, ecosystems and climate issues.

The person recruited will be in charge of the technical side of data fusion (ocean and atmospheric data to be related to acoustic and visual detection of cetaceans), and will have to work in collaboration with the laboratory's researchers and the project's partners. He/she will be involved in co-supervising students for theses and internships. He/she will be expected to take part in the project's half-yearly meetings. He/she will be responsible for monitoring the team's activities in the project : deliverables, regular meetings, financial monitoring, organization of events, contact with end users and stakeholders, and outreach activities.

**Application deadline :** 10<sup>th</sup> of September 2024

**Starting date :** ideally around November 2024

**Work location:** University of Toulon, La Garde Campus, Var, France

**Contact:** A. Molcard ( [anne.molcard@univ-tln.fr](mailto:anne.molcard@univ-tln.fr)) and Y. Ourmieres ( [yann.ourmieres@univ-tln.fr](mailto:yann.ourmieres@univ-tln.fr))