

R&D Engineer in Artificial Intelligence for avifauna monitoring (F/M/X)

Want to join a human-scale organisation with a dynamic, committed and caring team focused on innovation for the energy transition? France Energies Marines offers you the opportunity of a high-level scientific career in which you will be recognised by your peers in your field of expertise. You'll be able to carry out applied research for a booming industry. So, let's create tomorrow's world together!

The Institute France Energies Marines

France Energies Marines is an offshore wind energy research and innovation centre with a recognised industrial, economic and societal impact in France and internationally.

Its mission is to remove the obstacles facing the offshore wind energy sector. Backed by the French government and supported by a multidisciplinary team of more than 90 staff, a network of international experts and unique infrastructures, the Institute conducts multi-partner research projects guided by excellence.

The results are transferred to the industry in the form of research and expertise services, operating licences, know-how transfer and participation in expert committees and networks.

These activities are structured around four complementary thematic departments: Wind and Ocean Dynamics, Systems and Performance, Biodiversity and Interactions, Ecosystem and Society. Cross-functional services support these activities.

Context

The growing number of offshore wind farms raises critical environmental and societal questions about their impact on marine ecosystems. These questions are at the heart of the "Biodiversity and Interactions" team of France Energies Marines and the [DRACCAR-MMERMAID](#) R&D project within which this position is part. The [DRACCAR-MMERMAID](#) project proposes to develop innovative methods for monitoring marine fauna over the long term and in a standardized way. In particular, the measuring mast located at the Fécamp wind farm serves as a research platform to collect multimodal data. This data is used to train artificial intelligence models dedicated to the detection, monitoring and classification of marine species.

Job description

The objective of the position is to contribute to the development of artificial intelligence algorithms dedicated to the automatic detection of birds from video systems and camera traps. The candidate will work closely with the AI and avifauna teams of FEM's Biodiversity & Interactions department, and will play a central role in the implementation, training and evaluation of deep neural networks. The work will be based on annotated datasets as well as on various data processing and deep learning model training tools developed in the framework of the [DRACCAR-MMERMAID project](#).

In this context, the candidate will be required to:

- To carry out a **literature review** on neural network architectures adapted to object detection tasks in video streams, with a particular interest in the tracking of birds in offshore environments.
- Contribute to the **definition of learning and evaluation strategies**, as well as to the preparation and structuring of training, validation and test datasets.

- Participate in the **implementation of the selected neural network architectures**, as well as in the development of the associated learning algorithms and evaluation protocols.
- Analyze and interpret the performance of models to propose **ways of improvement** (architectures, data, training strategies).
- Contribute to the **scientific promotion of the work**, by writing articles, scientific reports and participating in scientific communications.

Profile and skills

Initial training

PhD or Master degree in artificial intelligence, computer vision, and/or data science.

Specific knowledge

- Programming in Python
- Excellent expertise in deep learning frameworks (PyTorch, PyTorch Lightning)
- Advanced practice with Linux environments and GPU HPC
- Ease in handling and operating SQL databases
- Proficiency in Git and continuous integration tools (unit testing, CI/CD)

Professional qualities

- Ability to work in a team environment in an interdisciplinary research environment
- Autonomy, rigor, sense of organization
- Analytical and synthesis skills

The +:

Interest in environmental issues and marine renewable energies

Practical information

Type of contract	Fixed-term contract
Duration of the contract	12 months
Status	Executive
Place of work	Brest, Marseille, Le Havre or Nantes
Start date	01/09/2026
Application Deadline	28/06/2026

In accordance with the regulations, with equal skills, priority will be given to people with disabilities.

How to apply

- Applications must consist of a **CV** and a **cover letter**.
- In the case of a secondment of the candidate by a member of France Energies Marines, the application must mention the agreement of the current employer.
- To apply, go to the France Energies Marines website in the Join [us section](#).

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