FRANCE ENERGIES MARINES

Research engineer in remote sensing tools applied to offshore wind energy (F/M)

N/Ref: FEM-SAS-2022-322

France Energies Marines institute

France Energies Marines is the French Institute for Energy Transition dedicated to offshore renewable energies. Its mission: to define, set-up and apply a scientific and technical framework necessary to remove the obstacles facing this rapidly developing sector. With a multidisciplinary team of 70 employees and a model of public-private collaboration, the Institute has one purpose: R&D, whether collaborative or carried out as part of a service activity. France Energies Marines provides support for the various offshore renewable energy technologies by relying on four cross-disciplinary and complementary R&D programmes: site characterisation, design and monitoring of systems, environmental integration, and farm optimisation.

Context

The successful candidate will be responsible for increasing the Institute's skills and setting up R&D projects on the innovative theme of characterising ORE sites using satellite remote sensing. In close collaboration with the meteorological and numerical modelling experts of the Site Characterisation programme, he/she will contribute to the development of new tools and to the exploitation of wind-wave-current observations from sensors on board satellites and from terrestrial sensors.

Job description

- Development of research activities related to remote sensing applied to offshore wind energy
- Definition and coordination of the setting up of research projects and contribute to the scientific tasks of France Energies Marines' projects
- Develop collaborations with European and international research institutes in the field of ORE
- Strengthen the Institute's links with industrial players in the field
- Supervising PhD students and post-doctoral research fellows
- Presentation of the results of collaborative research projects in peer-reviewed journals and at conferences
- Contribution to the services offered by France Energies Marines for the benefit of the ORE sector

Profile and skills

Initial training

PhD in the field of remote sensing applied to metocean parameters or in a related field, or an engineer with recognized experience in R&D

Specific knowledge

Required:
- Use of observations from remote sensing systems (satellite sensors, lidars, etc.)

Desirable:
- Physics of air-sea interactions and influence on the atmospheric boundary layer
- R&D related to offshore wind energy
- Artificial intelligence

Work experience

R&D experience in the field of remote sensing, especially for satellite observations, confirmed by the publication of articles in peer-reviewed journals. Experience in the analysis of lidar measurements would be a plus.

Professional qualities

- Good writing and communication skills in French and English
- Appetence for applied and collaborative research

Practical information

- **Type of contract:** permanent contract
- **Status:** executive
- **Workplace:** Brest (headquarters) or Marseille (Mediterranean office)
- **Starting date:** 1st December 2022
- **Deadline for application:** 28 August 2022

This position is open to people with disabilities.

How to apply

- Applications must consist of a **CV** and a **cover letter**.
- In the case of a candidate being seconded by a member of France Energies Marines, the application must mention the agreement of the current employer.
- To apply, please go to the France Energies Marines **website** under the **Join Us** section.