

## Institut Français de Recherche pour l'Exploitation de la MER

<b>Position to be filled</b>	<b>Ocean Engineer (M/F)</b>
<b>Employment</b>	Engineer
<b>Discipline</b>	Sciences for the engineer
<b>Specialties</b>	Hydrodynamics, Ocean engineering
<b>Type of contract (Vacancy)</b>	<b>Permanent contract</b>
<b>hosting structure</b>	REM, RDT/LCSM
<b>Location</b>	Centre de Brest
<b>Publication date</b>	26/03/2018
<b>Taking office</b>	Asap
<b>Reference (HRM part)</b>	

### Ifremer and the hosting structure

Through its work and expertise, Ifremer contributes to the development of knowledge of the oceans and their resources, to the monitoring of the marine and coastal environment and the sustainable development of maritime activities. Ifremer is a source of knowledge, innovation, monitoring data and expertise for the world of the sea, both in terms of public policy and socio-economic activity. It is the only structure of its kind in Europe.

Founded in 1984, Ifremer is a public industrial and commercial establishment (EPIC), under the joint supervision of the Ministries of Higher Education, Research, Ecology, Sustainable Development and Energy.

#### Presentation of the hosting structure :

In the field of hydrodynamics, the activity of the laboratory focuses on modeling fluid/structure interactions and FSI-induced motion through testing tank or at-sea experiments and numerical simulations with the objective of estimating efforts applied to marine structures and characterizing their dynamic response. Both linear and non linear approaches are usually considered.

The LCSM laboratory operates test basins in Brest and Boulogne-sur-Mer for hydrodynamic studies or qualification assessments. These experimental facilities are used for internal or external applications in cooperation with academics, SMEs, TPE, ETI or large groups;

#### Introduction of the position to be filled and its position in the organization chart:

Within the "Comportement des Structures en Mer laboratory (LCSM), the recruited engineer will be placed under the hierarchical responsibility of the laboratory manager and assigned to the Brest ocean basin.

He/She will contribute to research activities related to the design and reliability studies of marine structures dedicated to the exploitation of energetic or mineral marine resources ( offshore oil & gaz, marine renewables etc.) or to marine environment observation/monitoring. In particular, he/she will contribute to moelling activities of compliant marine structures (umbilicals, mooring lines, towed or tethered systems). He/She will be in charge of experimental and/or numerical studies of the hydrodynamical and mechanical behaviour of these structures

### Main missions (objectives of the function)

He/she will contribute to research activities related to the reliable design of marine structures or concepts of concern in the laboratory. He/she will bring technical support in the hydrodynamic field to other Ifremer teams, namely those in charge of the development of new instruments or equipments for the exploration of the oceans.

### Main activities

## **Institut Français de Recherche pour l'Exploitation de la MER**

- He/She will contribute to research activities related to design and reliability studies of marine structures dedicated to the exploitation of energetic or mineral marine resources ( offshore oil & gaz, marine renewables etc.);
- He/She will contribute to design and/or deployment studies of compliant marine structures (umbilicals, mooring lines, towed or tethered systems) dedicated to marine environment observation/monitoring.
- More specifically, he/she will be in charge of modelling activities, both experimental and numerical, related to the hydrodynamic and mechanical behaviour of these structures
- He/She will contribute to the definition of the strategy and prospects of the laboratory ; he/she suggests research (or cooperative research) subjects within the above listed fields
- He/She establishes relevant partnership relations to achieve the above-listed studies and research work, carries out research project building and technical/scientific contract monitoring,
- He/She carries out these research activities in cooperation with academic or industrial partners

### **Relational fields**

#### Internally:

Placed in the LCSM laboratory of the RDT unit he / she will have ongoing relations with colleagues from the laboratory and the unit. His/her relations will be more specifically with the hydrodynamic teams of Brest and Boulogne-sur-Mer, the material testing team and the equipment qualification team: he/she will be in strong relation with the other members of the Brest testing tank : 5 engineers/researchers, 2 technicians together with the manager of the laboratory. He/She will also be in narrow connection with the engineering office(Brest) for design of moored structures and with the subsea engineering office (Toulon) for the design of tethered systems.

#### Externally:

In the context of collaborative projects, he/she will have a sustained relationship with our academic or industrial partners, either within France or Europe. He/she will develop new relationships with colleagues from complementary disciplines within the scope of new projects, conferences etc..

### **Used skills**

- Technical skills (knowledge, know-how) :
  - Mechanics, Mechanics of Structures
  - Fluid mechanics
  - Numerical modelling
  - Knowledge in Marine Environment (Metocean)
  - Knowledge in signal processing
  - Computer tools (Matlab, ...)
  - Fluent English (written, spoken),
- Personal qualities (well being) :
  - Initiative rigor and autonomy
  - Relational qualities for team work,
  - Interest for establishing cooperation relationship, networking

### **Profile (initial training and professional experiences)**

- Mechanical/Hydrodynamical engineer.
- Knowledge in Naval Hydrodynamics, Ocean Engineering.

### **Working conditions (exercise mode : ship boarding, activity rate,...)**

Full time. Occasional participation to short duration at-sea experiments.

## Institut Français de Recherche pour l'Exploitation de la MER

**Pistes de *sourcing* (partie réservée au service recruteur et la DRH et ne fera pas l'objet d'une diffusion externe)**

Ecoles Centrales, INSA, ENSTA, ENSI, ENSAM, Universités, site web de l'Ifremer

### **Pour postuler**

**Date de clôture de réception de candidatures** : Dès que possible

Accédez à cette offre en un clic (partie DRH) :

Toutes nos candidatures sont traitées via notre site internet. Pour plus de renseignements sur le poste, envoyez votre mail à [daniel.priour@ifremer.fr](mailto:daniel.priour@ifremer.fr) (*acceptez-vous de communiquer les coordonnées du (de la) responsable du service recruteur ?*)

Consultez nos offres d'emploi sur le site internet d'Ifremer/Travailler à l'Ifremer/[Offres d'emploi & stage](#)  
Suivez nos actualités via LinkedIn, [Twitter](#) et [Facebook](#)