

# JOB DESCRIPTION

## HYDRODYNAMIC / STRUCTURAL ENGINEER

LA CIOTAT OR NANTES | EXECUTIVE | OPEN-ENDED CONTRACT



### OPPORTUNITIES

PRINCIPIA is currently searching for talented **Hydrodynamic / Structural Engineer** to support the Offshore Group based in France (La Ciotat or Nantes) with hybrid working options.

The Engineer will have an opportunity to work on particularly complex design challenges using PRINCIPIA's internal suite of analysis tools to develop solutions that meet the needs of our range of national and international clients. This is a permanent contract position.

PRINCIPIA is currently providing the engineering services to deliver some of the latest, challenging subsea projects in the Europe and around the globe, for the Oil & Gas and Marine Renewable industries. This is a great opportunity to assume a leadership role on major execution projects and R&D work.

### RESPONSIBILITIES

We are looking for Hydrodynamic / Mooring Engineers / Naval Architect to satisfy the growing demands from our customers, especially within hydrodynamic and structural analysis for marine renewable energies (Floating WT) and oil & gas floating system units:

- ♦ Modeling of structures in hydrodynamics software (Deeplines, Diodore) & Structural (NSO, Abaqus)
- ♦ Writing and checking of calculation notes, analysis reports, specification of materials
- ♦ Supplier's follow-up, technical assistance to customers during the study phase
- ♦ Perform and/or supervise numerical analysis on floating systems from conceptual design to full detailed engineering and in-service integrity verification
- ♦ Use industry standard software (e.g., Deeplines, Diodore, Abaqus)
- ♦ Manage projects, including:
  - Budget evaluation and proposal preparation
  - Internal coordination of the team (design engineers)
  - Management of the planning and cost control aspects to meet project requirements and deadlines
  - Technical interface with client and reporting

### PRINCIPIA

is an innovative engineering services company specialized in the offshore industry (oil & gas, renewable energies), nuclear and shipbuilding.

With more than 40 years of experience and a strong technical expertise (more than 100 engineers and experts), Principia provides high value-added service solutions: FEED and detailed design projects, calculations and scientific expertise, engineering software, monitoring solutions, and R&D studies.

We have offices in France (La Ciotat - Nantes) and Malaysia (Kuala Lumpur).

### SKILLS & EXPERIENCE

Bachelor's Degree in engineering (Naval architecture, Mechanical or Marine)

2 to 5 years of experience with design and engineering of offshore floating structures

Experience with some of the following software: DIODORE, DEEPLINES, AQWA, MOSES Hydrostar, Ariane, NSO, Sacs, FEMAP)

Good communication skills

Fluency in English and French is a clear asset

**TO APPLY**

**job@principia.fr**