INESC TEC | Research Grant (AE2025-0356)
INESC TEC

Job Title	INESC TEC | Research Grant (AE2025-0356)
Department	OCEAN
Institution	INESC TEC PORTO, , Portugal
Date Posted	Oct. 15, 2025
Application Deadline	Oct. 17, 2025
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Civil Engineering Naval Architecture & Marine Engineering Engineering - Other Ocean Engineering
Apply Online Here	https://www.inesctec.pt/en/form/notice/5692
Apply By Email	

Job Description

Research Opportunities

Maritime Infrastructures

Work description

The doctoral candidate’s work plan focuses on the development of an integrated Structural Health Monitoring (SHM) system for floating wind platforms. It encompasses a comprehensive scope, ranging from literature review and complementary training in hydrodynamics and data analysis, to the implementation and experimental validation of analysis methodologies and numerical modelling. The

INESC TEC | Research Grant (AE2025-0356)
INESC TEC

training plan includes participation in specialised courses, international conferences, and internships, aiming to develop advanced skills in SHM, fluid–structure interaction, and predictive maintenance, as well as the publication of scientific papers. The ultimate goal is to contribute significantly to the safety and efficiency of offshore wind energy production. The candidate will undertake a training and capacity-building period at SINTEF OCEAN in Trondheim, Norway.

The supervisory team is composed of Paulo Rosa Santos (FEUP) and Diogo Neves (INESCTEC), together with co-supervisors from INESCTEC and SINTEF Ocean (Norway), as outlined in the work plan.

Academic Qualifications

- Master’s degree in Civil Engineering, Ocean Engineering, Mechanical Engineering, Naval Engineering, Maritime Hydraulics, or related fields, with a solid background in hydrodynamics, structural analysis, and fluid dynamics.
- Eligible applicants: Students who are enrolled, or who commit to enrol by the time of hiring, in a PhD degree-awarding study programme offered by a Higher Education Institution.

Minimum profile required

- Experience in fluid-structure interaction, numerical modeling, dynamic analysis of offshore structures and/or processing of sensor data.
- Skills in scientific programming (Python, MATLAB, or equivalent) and use of simulation software (CFD, FEM) and CAD (e.g., AutoCAD, SolidWorks).
- Ability to design and conduct experimental tests (e.g., wave tank) and to process signals and sensor data.
- Proficiency in English, both spoken and written, and aptitude for working in multidisciplinary and international teams.

Preference factors

- Preference will be given to candidates with experience in dynamic analysis of floating objects and moorings for offshore structures.

Maintenance stipend: € 1309.64, according to the table of monthly maintenance stipend for FCT grants , paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

INESC TEC | Research Grant (AE2025-0356)
INESC TEC

INESC TEC supports costs with registration, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 02 Oct 2025 to 17 Oct 2025

Scientific Advisor

Diogo Neves

What we offer

- **Multicultural and collaborative environment**
- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
- **International projects**
- The possibility of working in international projects with some of the most important companies in the field.
- **Mentoring**
- Mentoring with the best researchers in the fields of electrical and industrial engineering, bioengineering, information technology and physics.
- **Self Improvement**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- **Other Benefits and Perks**
- Flexible working time, health insurance, discounts in hotels, transportation, etc.

For more information: Click here

Contact Information

INESC TEC | Research Grant (AE2025-0356)
INESC TEC

Contact

INESC TEC - Instituto De Engenharia De Sistemas E Computadores, Tecnologia E Ciência

Portugal

Phone Number 222094000

Contact E-mail rh@inesctec.pt