

## POST-DOCTORAL RESEARCH GRANT (BPD) (1 vacancy)

### Reference: CORAL/BPD/2018-004

A competition is open for the attribution of 1 Post-Doctoral Grant in the framework of the project **CORAL NORTE - Sustainable Ocean Exploitation: Tools and Sensors**, with reference NORTE-01-0145-FEDER-000036, within the R&D Institution CIIMAR (Interdisciplinary Centre of Marine and Environmental Research), supported by the Northern Regional Operational Program (NORTE2020), through the European Regional Development Fund (ERDF), according to the following conditions:

**1. Main scientific area:** Environmental Sciences

**Secondary scientific area:** Earth Science - Oceanography

### 2. Admission requirements

The candidate must accomplished the following requisites:

- A PhD in the field of oceanography, meteorology, climatology or related fields.
- Expertise in the implementation of hydrodynamic models, preferably ROMS numerical model, although experience with other numerical models may also be considered.
- Knowledge of Linux/Unix and programing techniques.

Preferred conditions are previous experience in: meteo-oceanographic data analyses; deep sea oceanographic modelling; sediment and/or pollutants transport modelling; Lagrangian tools.

### 3. Work plan:

The research plan is part of the CORAL project, which aims to contribute for the establishment of a framework for the friendly environmental extraction of deep-sea non-living resources, including the identification and development of innovative solutions, tools and best management practices to reduce environmental impacts of mineral extraction. The activities to be developed at CIIMAR during the grant period includes the following topics:

- Calibration and validation of the existent ROMS based numerical application dedicated to study the impact of deep-sea mining operations on the dispersion of contaminants
- Pursue numerical simulations to depict risk scenarios considering real meteorological and oceanographic conditions.
- Participate in the preparation of scientific articles.

#### **4. Legislation and official rules:**

Law n.º. 40/2004, 18th August (Research Fellowship and Studentship Regulation) and amended by Law No. 202/2012, 27th August; Regulations for Studentships and Fellowships of the Fundação para a Ciência e a Tecnologia, I.P. – 2015 and CIIMAR Grants Regulation.

#### **5. Work place:**

The work will be carried out at CIIMAR's Ocean Dynamics, Coastal and Water Systems group, under the supervision of Inv. Principal Maria Luísa Bastos.

#### **6. Duration of the grant:**

Duration of four (4) months, starting during **May 2018**, under the regime of exclusive dedication.

#### **7. Monthly maintenance stipend:**

The monthly maintenance allowance is €1495 (one thousand four hundred and ninety-five Euros – Tax Free), in agreement with the monthly maintenance stipend table of the grants directly attributed by FCT, I.P. within the country (<http://www.fct.pt/apoios/bolsas/valores.phtml.en>).

#### **8. Selection methods:**

Candidates will first be ranked according to a global Curriculum Vitae evaluation. The candidates' CV score (CVS) will be the sum of the evaluation for the Academic Qualification (AQ) and the Professional Experience (PE), in accordance with the formula:

$$CVS = AQ + PE$$

The classification for each of these items is obtained (in values) adding to the basic

classification (14) the bonus in respect of each of the criteria, according to the table below.

<b>AQ= Academic Qualifications</b>	
PhD in the fields of oceanography, meteorology, climatology	14
<b>PE= Professional Experience</b>	
Experience in oceanographic numerical modelling	2.0: More than 2 years with ROMS  1.0: More than 2 years with similar models  0.5: Less than 2 years with ROMS  0.0: No experience
Experience in sediment/pollutants modelling and/or Lagrangian tools and/or meteo-oceanographic data analyses (proven through publications)	0.5 for each publication to a maximum of +2 values
Publications related with the work plan in journals cited on ISI	0.5 for each publication to a maximum of +2 values

The jury reserves the right to not assign the research grant if none of the candidates meets all requirements and matches the desired profile.

### **9. Composition of the jury selection:**

President of the jury: Inv. Principal Maria Luísa Bastos

Vogal: Prof. Aux. Miguel Santos

Vogal: Inv. Aux. Filipe Castro

Substitute: Prof. Aux. Clara Lázaro

Substitute: Inv. Aux. Ana Paula Mucha

## **10. Form of Advertising/notification of results:**

The final results of the evaluation will be published through a list sorting the candidates according to their attributed mark, on the CIIMAR website and by e-mail; in case of disagreement, the candidates have a 10-working day term to contest the decision, if he/she so wishes, as provided for in the *Código do Procedimento Administrativo* in a preliminary hearing setting.

## **11. Deadline for application and presentation of applications:**

The competition is open from **27<sup>th</sup> February until 12<sup>th</sup> March 2018**. The applications must be formalized, compulsorily, by sending the following documents:

- indication of the reference of the competition (as indicated in this announcement).
- detailed Curriculum vitae in English including e-mail address and phone number, and mentioned clearly the academic grades and the relevant research experience;
- copy of the eligibility certificates,
- motivation letter,
- reference contact information of current and past supervisor,

The applications must be sent by postal mail to Emília Afonso, CIIMAR – Centro Interdisciplinar de Investigação Marinha e Ambiental, Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos s/n, 4450-208 Matosinhos and simultaneously by e-mail to: [secretariado@ciimar.up.pt](mailto:secretariado@ciimar.up.pt). The applications that **do not include all** the elements previously indicated will **not be considered**.