

## **ASSISTANT RESEARCHER WORK CONTRACT (1 vacancy)**

**REF. EMSO.PT/IA/2018\_023- II**

### **Reference:**

A competition is open for the attribution of 1 work contract vacancy to an Assistant Researcher in the framework of the European Multidisciplinary Seafloor and Water Column Observatory – Portugal (EMSO-PT, Reference PINFRA/22157/2016), within the R&D Institution CIIMAR (Interdisciplinary Centre of Marine and Environmental Research), supported by Programa Operacional Competitividade e Internacionalização, Programa Operacional Regional de Lisboa e Programa Operacional do Algarve, na componente FEDER, e pela Fundação para a Ciência e Tecnologia, according to the following conditions:

#### **1. 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 other related fields in marine modelling.
- Expertise in the implementation of hydrodynamic models, preferably ROMS numerical model, although experience with other numerical models may also be considered.
- Ability to perform independent research proposing new approaches for solving the questions that are addressed in this project.
- Candidates should speak and write fluently English.

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

#### **3. Work plan:**

EMSO–PT aims to create a deep sea observatory integrated in the European EMSO-ERIC with the goal to develop advanced technological solutions to characterize the deep ocean.

The contracted Assistant Researcher (AR) will be responsible for adapting, calibrating and applying the deep-sea circulation model (ROMS/ ICHTHYOP), previously developed at CIIMAR, to understand the sediment dynamics, as well as for developing research on the interactions between the physical and biological oceanographic processes that take place along the water column. To calibrate the model, integration of the oceanographic data available at CIIMAR with new data acquired in the scope of EMSO-PT is foreseen.

The AR activities to be developed at CIIMAR during the grant period includes the following topics:

- Adapt, calibrate and validate the existent ROMS/ ICHTHYOP based numerical application focused on the sediment dispersion and impacts in the ecosystems.
- Perform sensitivity tests to assess different model configurations.
- Pursue numerical simulations considering real conditions.
- Participate in the preparation of scientific articles.

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

Decree-Law no. 57/2016 of 29<sup>th</sup> August, which approved the doctorate hiring regime destined to stimulate scientific and technological employment for all knowledge areas (RJEC), updated by the Law no. 57/2017 of 19<sup>th</sup> July and Labour Code approved Law no. 7/2009 of 12<sup>th</sup> February, under its current reading and Regulatory Decree No. 11-A / 2017, of 29th December.

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

The work will be carried out at CIIMAR, Ocean Dynamics, Coastal and Water Systems (ODCWS) group.

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

An uncertain term work contract will be signed starting November 2018, under the regime of exclusivity, according to legal terms (articles n.º 140º, nº 1 and nº 2, h; and article n.º 148º, nº 4 – Labour Code and article 6º, nº 1 b) e nº 3 from Decree-Law n.º 57/2016, de 29 -8).

#### **7. Monthly salary:**

The gross monthly salary is 3.209,67€ in agreement with the research career; food, holidays and Christmas allowance apart.

## 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 or other related fields in marine modelling	14
<b>PE= Professional Experience</b>	
Experience in numerical modelling	0.0: No experience 0.5: Less than 2 years with ROMS 1.0: More than 2 years with other numerical / similar models 2.0: More than 2 years with ROMS
Experience in sediment transport and/or marine ecological modelling (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.

Candidates may be invited to an interview, which can add a maximum of 2 values to the CV score.

## 9. Composition of the jury selection:

President of the jury: Principal Researcher Maria Luísa Bastos

Vogal: Auxiliar Researcher Ana Paula Mucha

Vogal: Auxiliar Professor Miguel Santos

Substitute: PhD Researcher Isabel Iglesias

Substitute: Auxiliar Researcher Filipe Castro

#### **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 in which to contest the decision, if he/she so wishes, as provided for in the Código do Procedimento Administrativo in a preliminary hearing setting. The jury reserves the right to not assign the grant depending on the quality of the applications.

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

The competition is open from **4 until 18 October 2018**. The applications must be formalized, compulsorily, by sending the following documents:

- detailed Curriculum vitae
- copy of the eligibility certificates
- motivation letter
- recommendation letter
- indication of the achievements relevant for the competition (as indicated in the selection criteria)
- contact information of PhD and current and past post-doctoral (if applicable) supervisors
- contact e-mail address and phone number

Applications must be sent by postal mail to Secretariado, 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**.