

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

Reference: MarRisk/BPD/2017-047

A competition is open for the attribution of 1 Post-doctoral Research Grant in the framework of the project *“MarRISK – Adaptação costeira face às mudanças climáticas: conhecer os riscos e aumentar a resiliência, com a referência 0262_MARRISK_1_E, financiado pelo Programa EP – INTERREG V A Espanha Portugal (POCTEC), através do fundo Europeu para o Desenvolvimento Regional (ERDF)”*, according to the following conditions:

1. Main scientific area: Environmental Sciences

Secondary scientific area: Earth Science - Oceanography

2. Admission requirements

- i) The candidate must hold a PhD in Oceanography, Climatology, Hydraulics or related field.
- ii) Candidates must be fluent in spoken and written English, preferably demonstrated by an international certificate (e.g. TOEFL, IELTS, Cambridge University).
- iii) Preference will be given to candidates with:
 - a. technical and scientific expertise in hydrodynamic and morphodynamic modelling (demonstrated through scientific publications);
 - b. experience in the application ROMS, TELEMAC or MOHID, coupled with sediment transport models/modules; although experience with other numerical models may also be considered;
 - c. previous experience in estuarine and coastal oceanographic and sediment transport modelling and analysis and exploitation of satellite remote sensing data.



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3. Work plan:

The proposed work is part of the MarRISK project which aims to promote intelligent and sustainable growth and improve resilience against climate change impacts for the littoral zones of Galicia and Northern Portugal. The activities to be developed at CIIMAR during the grant period focus on hydro- and morphodynamic modelling of the Portuguese Atlantic North-western coast. Numerical Models, such as ROMS, TELEMAC and MOHID shall be combined with wave (e.g. SWAN) and sediment transport models or modules to assess and predict hydrodynamics and sediment transport in the littoral zone and in (at least the final parts of) some important estuaries. Climate change/variability effects on hydrology, sediment transport and (bottom and coastal) morphology shall be analysed considering various climate change scenarios.

4. Legislation and official rules:

Law nº. 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, within the Coastal and Ocean Dynamics (COD) Group, under the scientific supervision of Dr. Ana Maria Ferreira Bio.

6. Duration of the grant:

Duration of thirteen (13) months, starting December 2017, under the regime of exclusive dedication.

7. Monthly maintenance stipend:



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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 (in percentage, with a maximum of 100%) attributed to the AQ and the several PE criteria are as follows:

Academic Qualifications (AQ)	
PhD in the field of Oceanography, Climatology or Hydraulics	40%
PhD in other related fields	30%
Professional Experience (PE)	
Experience in working with high-resolution ocean numerical models	≤ 2 years ROMS, TELEMAC or MOHID: 20% > 2 years ROMS, TELEMAC or MOHID: 30% > 2 years other models: 20%
Experience in coastal and estuarine hydro- and morphodynamic (sediment transport) modelling	15%
Experience with satellite data analyses	5%
Journal publications cited on ISI related to the work plan	2% for each publication, up to a maximum of 10%



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The best-ranked candidates will be invited to an interview, with the Final Score (FS) being calculated based on the CVS and the Interview Score (IVS) as follows:

$$FS = 0.8 \times CVS + 0.2 \times IVS$$

The criteria for the IVS evaluation are as follows:

Interview Score (IVS)	
Demonstration of motivation	30%
Affinity with the work plan	30%
Communication skills	30%
Availability to start immediately	10%

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 selection jury:

President of the jury: PhD Ana Maria Ferreira Bio

Vogal: PhD Isabel Iglesias Fernández

Vogal: PhD Helena Maria Leite Pato Granja

Substitute: PhD Ana Teresa dos Santos Picado

Substitute: PhD José Alberto Álvares Pereira Gonçalves



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9. 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.

10. Deadline for application and presentation of applications:

The competition is open from **18th October until 31th October 2017**. 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 mentioning clearly the academic grades and the relevant research experience;
- copy of the eligibility certificates
- motivation letter
- reference contact information of current and past supervisors

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. Applications that **do not include all** the elements indicated above will **not be considered**.



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