

RESEARCH GRANT (BM) (1 vacancy)

Reference: CORAL/BI-MSc/2017-028

A competition is open for the attribution of 1 Research Grant in the framework of **the NORTE-01-0145-FEDER-000036, with reference CORAL - Sustainable Ocean Exploitation: Tools and Sensors, within the R&D Institution CIIMAR (Interdisciplinary Centre of Marine and Environmental Research), supported by the Northern Regional Operational Programme (NORTE2020), through the European Regional Development Fund (ERDF)**, namely within the Research Line 2 – Blue Sensors – Photonic Technologies for Ocean Monitoring and Exploitation, according to the following conditions:

1. Scientific area: Biological Sciences

2. Admission requirements

The candidates must hold a Master Degree in the field of Aquaculture, Aquatic Environment Sciences, Biological Sciences or related scientific fields.

Knowledge on design, assembling and operation of aquatic production systems, associated equipment and monitoring systems is fundamental.

Experience in Aquaculture Recirculation Systems (RAS), knowledge on hydraulics, biofilters and sensor operation will be valued.

Availability to work in a flexible regime

Immediate availability

Very good fluency in English is expected.

Driving Licence (Category B)

3. Work plan:

This project aims to develop strategies and water treatment technologies for the removal of particulate organic matter (POM) in land-based aquaculture systems with water recirculation (LBCC-RAS). The removal of POM is the key to improve fish production in these systems, as it stimulates heterotrophic bacteria, which degrade POM, affecting O₂ consumption, and producing CO₂ and ammonium. So, monitoring CO₂ in relation to different POM levels can be of interest to aquaculture. In this context, the candidate will

be involved in the design, assembling and testing the operability of a laboratory recirculation aquaculture system. Different scenarios will be tested and reports written.

4. Legislation and official rules:

Law nº. 40/2004, 18th August (Research Fellowship and Studentship Regulation); 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 in a multidisciplinary environment between CIIMAR (BioCoastal Group at FCUP and CIIMAR) and INESC TEC Applied Photonics group, at the Faculty of Sciences of Porto University, under the scientific supervision of Prof. Teresa Borges and Dr. Pedro Jorge.

6. Duration of the grant:

Duration of six (6) months, starting in October 2017, under the regime of exclusive dedication.

7. Monthly maintenance stipend:

The monthly maintenance allowance is €980 (nine hundred and eighty 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:

The ranking of candidates will be performed in a first phase by two components: experience **relevant** for the area of the project (60%), the Curriculum Vitae (40%). In case of ties, ranking will be performed by interview (30%) plus the curricular evaluation done in the first phase (70%).

9. Composition of the jury selection:

President of the jury: PhD Maria Teresa Borges, Professor Auxiliar na FCUP

Vogal: PhD Pedro Alberto da Silva Jorge, Investigador Senior no INESC TEC

Vogal: PhD Catarina Magalhães, Investigadora CIIMAR

Substitutes:

PhD José Américo Sousa, Professor Auxiliar na FCUP

PhD Carlos Manuel Melo Pereira, Professor Auxiliar na FCUP

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 **19th July until 1st of August**. The applications must be formalized, compulsorily, by sending the following documents:

- motivation letter, with mention to the reference of this specific Competition
- detailed Curriculum vitae
- copy of the eligibility certificates, including driving license
- reference letter and contact information of current and past supervisors
- contact e-mail address and phone number
- indication of the reference of the competition (as indicated in this announcement)

The applications must be sent by postal mail to Emília Afonso, CIIMAR – Centro Interdisciplinar de Investigação Marinha e Ambiental, Rua dos Bragas nº 289, 4050-123 Porto, and simultaneously by e-mail to: secretariado@ciimar.up.pt. The applications that **do not include all** the elements previously indicated will **not be considered**.