

RESEARCH GRANT (BI) (1 vacancy)

Reference: [ECOSERVICES/BM/2018-021](#)

A competition is open for the attribution of 1 Research Grant in the framework of the **Structured Program of R&D&I INNOVMAR - Innovation and Sustainability in the Management and Exploitation of Marine Resources (Reference NORTE-01-0145-FEDER-000035)**, namely within the Research Line **ECOSERVICES - Assessing the environmental quality, vulnerability and risks for the sustainable management of NW coast natural resources and ecosystem services**, supported by the Northern Regional Operational Programme (NORTE2020), through the European Regional Development Fund (ERDF), according to the following conditions:

1. Scientific area: Biological Sciences

2. Admission requirements

- i) The candidates must hold a degree in Biological Sciences or related field with classification equal or higher than 16 values (in 20) and a Master in the field of Biological Sciences or related fields with classification equal to or higher than 18 values (in 20);
- ii) Knowledge on marine microbiome sampling and analysis using genomic and metagenomic tools and NGS techniques;
- iii) Experience in analyzing data generated from NGS tools using bioinformatic pipelines for prokaryotes and unicellular eukaryotes.
- iv) Knowledge in molecular and biogeochemical techniques for environmental microbial analysis and activity measurements.

3. Work plan:

The research plan includes the development of bioremediation technologies as a mitigation tools for ecosystems recovery. Initially, fieldwork for identification of organisms (microorganisms and plants) with the ability to degrade/remove certain contaminants will be carried out. Afterwards microcosm experiments will be performed to evaluate the degradation/removal potential of these organisms. Finally,

the validation and optimization of the bioremediation processes will be carried out in mesocosm experiments in which conditions similar to those found in estuarine and coastal zones affected by pollution incidents will be simulated. Along with persistent pollutants, such as petroleum hydrocarbons and metals, special attention will be given to emergent pollutants such as metallic nanoparticles, pharmaceuticals and fluorinated compounds. Finally, the contribution of the developed bioremediation technologies for recovery, sustainability and ecosystem services valorization will be evaluated by assessing bioremediation efficiency as a natural eco-friendly and economic alternative to the actual decontamination processes.

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. and CIIMAR Grants Regulation.

5. Work place:

The work will be carried out at CIIMAR, EcoBioTec Group, under the scientific supervision of Dr. Ana Paula Mucha.

6. Duration of the grant:

Duration of six (6) months, starting July 2018, 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 first ranking of candidates will be performed after a CV evaluation based on:

- The Degree and Master grades plus scientific area: 50%;

- Experience in the research field: 50%.

If necessary an interview will be done to the three top candidates, after which a final ranking will be performed based on:

- CV evaluation: 50%;
- Interview: 50%.

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

9. Composition of the jury selection:

President of the jury: PhD Ana Paula Mucha

Vogal: PhD Maria de Fátima Carvalho

Vogal: PhD Catarina Magalhães

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.

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

Based on the final list, a reserve list will be established, which will be used for the eventual attribution of new research grants under this project.

11. Deadline for application and presentation of applications:

The competition is open from **29th of May until 12th June 2018**. The applications must be formalized, compulsorily, by sending the following documents:

- detailed Curriculum vitae in English and Portuguese 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
- 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, 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. The applications that **do not include all** the elements previously indicated will **not be considered**.