

## RESEARCH GRANT (BI) (1 vacancy)

### Reference: CORAL/BI/2017-009

A competition is open for the attribution of 1 Research Grant in the framework of the **Research Project CORAL - Sustainable Ocean Exploitation: Tools and Sensors with the reference NORTE-01-0145-FEDER-000036 funded by the Northern Regional Operational Programme (NORTE2020) through the European Regional Development Fund (ERDF)**, according to the following conditions:

#### 1. Scientific area: Environmental Sciences

#### 2. Admission requirements

- i) The candidates must hold a degree in Environmental Sciences or related field with classification equal or higher than 16 values (in 20) and a Master in the field of Environment 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 bioinformatics pipelines for prokaryotes and unicellular eukaryotes.
- iv) Knowledge in molecular and biogeochemical techniques for environmental microbial analysis and activity measurements.
- v) Experience in validating autonomous systems for biological sampling.

#### 3. Work plan:

The activities to be developed at CIIMAR during the grant period focus on the validation of the biological analysis components of the multi-trophic marine monitoring system. The work to be developed will aim to validate the filtration / concentration system of planktonic microbial communities (prokaryotes and unicellular eukaryotes) and efficiency in the preservation of DNA / RNA for later analysis of abundance, diversity and functions of these communities. The validation of the filtration efficiency and conservation of the DNA / RNA by the autonomous "Bio-Sampler" goes through the accomplishment of experiments where are tested different variables of the process of filtration and

preservation of the samples. This efficiency will then be assessed at the level of the integrity of the diversity, abundance and functions of microbial communities through the use of genomics and metagenomics tools. The data generated by NGS will be processed through the use of different bioinformatics platforms for analysis and annotation of the sequences generated.

#### **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, EcoBioTec Group, under the scientific supervision of Dr. Catarina Magalhães.

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

Duration of eight (8) months, starting June 2017, under the regime of exclusive dedication, eventually renewable according to legal terms, up to 12 months.

#### **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 (DMG): 60%;
- Experience in the research field (EX): 40%.
  - Knowledge on marine microbiome sampling and analysis using genomic and metagenomic tools and NGS techniques;
  - Experience in analyzing data generated from NGS tools using bioinformatics pipelines for prokaryotes and unicellular eukaryotes.
  - Knowledge in molecular and biogeochemical techniques for

environmental microbial analysis and activity measurements.

- Experience in validating autonomous systems for biological sampling

The Evaluation of the *Curriculum vitae* will be performed according to the following criteria:

- EC = 60%DMG+40%EX

If necessary, an interview will be done up to a maximum of three top candidates. Selected candidates that do not show up in the interview will be excluded from the competition, since their absence will be considered as a withdrawal of application.

The final score (CF), will weight in *the Curriculum vitae* evaluation (50%) and the interview (50%):

$$CF = 50\%EC + 50\%INT$$

If the interview will be not done according to the jury criteria a final ranking will be performed based on CV evaluation (EC)

$$CF = 100\% EC$$

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

President of the jury: PhD Catarina Magalhães

Vogal: PhD Maria de Fátima Carvalho

Vogal: PhD 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;

Following the announcement of the results, candidates are considered automatically notified to, if they wish to do so, comment on the results on a preliminary hearing period within 10 working days after that date, as provided for in the Código do Procedimento Administrativo.

The jury reserves the right to not assign the contract depending on the quality of the applications.

In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.

A reserve list, based on the final sequenced list of the candidates, will be made and used for future recruitment of contracts for this project.

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

The competition is open from **16<sup>th</sup> to 29<sup>th</sup> May 2017**. 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)
- Any other documents that the candidates may recognize as relevant

The applications that **do not include all** the elements previously indicated will **not be considered**.

The application 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 reference of the call must be mentioned in the 'Subject').