

## RESEARCH GRANT (BI-MSc) (1 vacancy)

### Reference: ValorMar/BI-MSc/2017-063

A competition is open for the attribution of 1 Research Grant in the framework of the project ValorMar, with reference 24517 (10/SI/2016 - I&DT Empresarial - Programas Mobilizadores), supported by the European Regional Development Fund (ERDF) and by the European Social Fund (ESF), according to the following conditions:

#### 1. Scientific area: Biological Sciences;

Environmental Engineering, System analysis and simulation or Aquaculture.

#### 2. Admission requirements

- i) The candidates must hold a Master in the field of Environmental Engineering, System analysis and simulation, Biological Sciences, Aquaculture or fields alike;
- ii) The candidates should be highly motivated and have previous knowledge and experience for integration of scientific findings and its application at an operational level to support daily management decisions;
- iii) The candidates should have technical and scientific training/experience on simulation models (ecological, growth models) or broader system dynamics and on data analysis techniques;
- iv) Knowledge about aquaculture systems, and in particular for seabass, seabream and/or oyster is welcome;
- v) It is mandatory that candidates have a driving license;
- vi) Availability to frequently travel in Portugal to the farms where case studies apply;
- vii) Fluency in Portuguese (mandatory) and in English (not mandatory but will be evaluated).

#### 3. Work plan:

This grant is for the application of simulation models to support aquaculture production in a fish farm and an oyster nursery in the South of Portugal (Olhão and Odiáxere), which are 2 of the case studies included in the Valormar project. The work includes: i) bioenergetic model application to simulate the growth of gilthead seabream and seabass

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in the fish farm operational setting, ii) system model application to translate the fish growth outputs into useful information for managers, iii) application of a simple mass balance model for seed stock management in the oyster nursery and in a later stage application of a dynamic growth model, iv) for one of the species under study evaluation of the Dynamic Energy Budget model to be applied in the aquaculture setting. Depending on the knowledge of the applicant the modelling work can include model development, besides application of existing models. To carry out the workplan the candidate will work with a spreadsheet model and with the range of technological platforms being implemented in the farms, in the context of the Valormar project, for gathering farm field data and external data.

The researcher is expected to follow-up the use of the models within each farm, ensuring that the model outputs are consistent and liaising with farmers/field workers to understand constraints or required features to ensure its effective use on the daily operations. This role implies that part of the work is going to be carried out in the aquaculture farms located in the South of Portugal (Olhão and Odiáxere).

The researcher will be involved in the different activities of this R&TD project including: i) the conceptualization, development and implementation stages in the fishfarm and oyster nursery, and ii) support the project management activities within the case studies. It is expected that the candidate contributes to the project deliveries including preparation of peer reviewed scientific papers and technical reports.

#### **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:**

Part of the work will be carried out at CIIMAR, Matosinhos, and part will be carried out aquaculture farms located in the South of Portugal (in Olhão and in Odiáxere), under the scientific supervision of Dr. Ana Nobre.

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

Duration of six (6) months, under the regime of exclusive dedication, eventually renewable according to legal terms, up to 31 months, never exceeding the end of the project (30/9/2020).

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## **7. Monthly maintenance stipend:**

The monthly maintenance allowance is €980 (nine hundred and eighty Euros – Taxe 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 by a global evaluation based on:

- Evaluation of the Curriculum Vitae -30%;
- Experience in the research field – 30%;
- Interview – 40% (Only the short-listed candidates will be interviewed).

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

President of the jury: Luisa MP Valente, Phd

1st Effective Member: Ana Nobre, Phd

2nd Effective Member: Vânia Freitas, Phd

Substitute Member: Filipa Rocha, Phd

Substitute Member: Sónia Batista, Phd

## **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 **9th until 22th of January 2018**. The applications must be formalized, compulsorily, by sending the following documents:

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- detailed Curriculum vitae with clear specification of i) degree classification, ii) previous experience in the above-mentioned fields, iii) list of peer reviewed publications, books and/or reports, iv) list of the computer skills (software and/or programming languages for simulation and data analysis), v) language proficiency for the second language (e.g. certified exam results or other form of proof for instance a work/paper);
- copy of the eligibility certificates, including driving license;
- motivation letter;
- one or more reference contact information of current or 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 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**.

The contracts will only be signed after the signature of the financing agreements of the project.