

RESEARCH GRANT (BI-MSc) (1 vacancy)

REF. ValorMar/BI-MSc/2019-033

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: Environmental Engineering, System analysis and simulation, Applied Mathematics and Statistics, Data Science or Aquaculture.

2. Admission requirements

- i) The candidates must hold a Master in the field of Environmental Engineering, System analysis and simulation, Applied Mathematics and Statistics, Aquaculture or fields alike;
- ii) The candidates must have and demonstrate training and/or experience in the following subjects:
 - Experience in developing experimental protocols in aquaculture systems or other marine systems;
 - Simulation models (ecological, growth models or broader system dynamics)
 - System and data analysis;
- iii) Experience in writing scientific papers. Preference will be given to candidates presenting one or more publications as first author;
- iv) Previous experience in life cycle assessments (LCA) will be considered as an advantage;
- v) Fluency in Portuguese and/or English;
- vi) Experience in team work.

3. Work plan:

This grant is for the application of data analysis and simulation to support aquaculture production in the 4 case studies included in the ValorMar project: bream and bass farm, oyster nursery, seaweed farm, and a recirculation experimental system that works mainly with shrimp and several extractive species. The candidates should be highly motivated and

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have preferably previous knowledge and experience for integration of scientific findings and its application at an operational level to support daily management decisions.

The candidate will work with the range of tools and platforms being implemented in the farms, in the context of the ValorMar project, for gathering farm field data and external data. The work includes model application to simulate farm production, continuous model evaluation, historic data analysis to obtain insights about production management, and liaise with manager/field workers to ensure its effective use on the daily operations. This role may imply periodic meetings to be carried out outside CIIMAR facilities in the aquaculture sites of the project.

The researcher will also be involved in the project management activities. It is expected that the candidate contributes to the project deliverables including preparation of peer reviewed scientific papers and technical reports.

The candidate is also expected to engage with the research group activities (LANUCE) and come up with viable proposals to develop new publications on incorporating experimental data into data analysis and simulation tools.

As part of the team, the candidate is also expected to contribute to new calls for R&D projects.

4. Legislation and official rules:

Law n.º. 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. and CIIMAR Grants Regulation.

5. Work place:

Most of the work will be carried out at CIIMAR, Matosinhos, and part will be carried out in the aquaculture sites (Ílhavo, Murtoosa, Odiáxere, Olhão), under the scientific supervision of Dr. Irene Martins.

6. Duration of the grant:

Duration of six (6) months, under the regime of exclusive dedication, eventually renewable according to legal terms until the end of the project.

7. Monthly maintenance stipend:

The monthly maintenance allowance is €989.70 (nine hundred and eighty Euros – Taxe Free), in agreement with the monthly maintenance stipend table of the grants directly

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attributed by FCT, I.P. within the country
(<http://www.fct.pt/apoios/bolsas/valores.phtml.en>).

Código de campo alterado

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: Irene Martins, Phd

2nd Effective Member: Ana Costa, Phd

Substitute Member: Sónia Batista, Phd

Substitute Member: Marta Evangelista, 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 **10 July until and 23 July 2019**. The applications must be formalized, compulsorily, by sending the following documents:

- 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) English/Portuguese language proficiency (e.g. certified exam results or other form of proof for instance a work/paper);
- copy of the eligibility certificates, including driving license;

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- 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 should be sent by e-mail to: mgalvao@ciimar.up.pt. The applications that **do not include all** the elements previously indicated will **not be considered**.

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