

## CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN R&D PROJECTS AND R&D INSTITUTIONS

### Research Studentship for a Master student

1 Research Studentship (BI) is(are) opened at **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, in the framework of the project/R&D Unit OPTOX - Development and validation of bio-optical ecotoxicological tests in marine phototrophs, PTDC/CTA-AMB/30056/2017, funded by national funds by FCT / MCTES (PIDDAC) under the programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Computer Science
2. **Essential skills and qualifications:** Students enrolled in a master program or graduate and/or master degree holders enrolled in non-awarding degree courses. BSc (“Licenciatura”) in Computer Science, Biology, or any related scientific area.
3. **Additional optional skills and qualifications:** Knowledge of Python and/or MATLAB programming language, and having frequented courses in any subject related to Machine Learning.
4. **Work to be performed:** The OPTOX Project aims to apply non-invasive high-throughput screening (HTS) techniques, namely pulse amplitude modulated (PAM) fluorometry, laser induced fluorescence (LIF) and spectroradiometry, as tools for ecotoxicology assessment in marine phototrophs exposed to emerging contaminants. These tests will be applied in model organisms, representative of major marine autotrophic groups (microalgae, macroalgae and marine angiosperms such as seagrasses and halophytes), and integrated through artificial intelligence (AI) for ecotoxicological indexes development. Allied to this innovative bio-optical approach, biochemical/metabolic tests will also be performed in exposed organisms, allowing confirmation of the physiological stress conditions. This multidisciplinary approach intends to produce innovative ecotoxicology tests of great added value for future management requirements and impact assessment. The chosen candidate will apply Machine Learning techniques to the data provided by the project, including ones based on Genetic Programming, improving the algorithms whenever possible in search of the best possible predictive models.
5. **Applicable legislation :** Research Fellowship Holder Statute, in accordance with Law 40/2004, of 18 August, in its current version and the FCT Regulation for Research Studentships and Fellowships, in its current version available at <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf>.
6. **Place of work:** The work will be developed at the LASIGE research unit, Department of Informatics of FCUL, under the scientific supervision of Professor Sara Silva and Professor Pedro Mariano.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on março de 2020. The fellowship contract may be renewed for 6 more months, in accordance with the provisions set out in the FCT Regulation for Research Studentships and Fellowships.
8. **Offered conditions:**
  - The fellowship amounts to € 798, according to the Stipends values table awarded directly by the FCT, IP.

## CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN R&D PROJECTS AND R&D INSTITUTIONS

- The fellowship holder will have a mandatory personal accident insurance, valid for 24h during the extent of the fellowship.
- The fellowship holder can ensure the right to social security on a voluntary basis under the Voluntary Social Security scheme, if not covered by any other social protection scheme, pursuant to *Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social*.

The fellowship will be paid on a monthly basis by wire transfer.

9. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV 100%.
10. **Selection Committee:** Sara Silva, FCUL (President), Bernardo Duarte, FCUL (1st Effective Member), Marisa Silva, FCUL (2nd Effective Member), Cátia Pesquita, FCUL (1st Alternate Member), Vanessa Fonseca, FCUL (2nd Alternate Member).
11. **Publication/notification of results:** All the candidates will be notified by e-mail, send by the call holder, with the selection meeting minutes enclosed.
12. **Deadline:** This call for applications is opened from 28/02/2020 to 12/03/2020 .
13. **Application:** Applications should be sent via e-mail to [sara@fc.ul.pt](mailto:sara@fc.ul.pt), by attaching the following documents:
  - a) Curriculum vitae;
  - b) Certificate of completion of previous degree;
  - c) Proof of registration in the study cycle that confers the requested degree in this call;
  - d) and other documents considered relevant.
14. **Time limits for the appeal procedure:** In case of negative decision, the candidates have 10 business days, after the date of announcement of the results of the candidates evaluation, to pronounce their disagreement in accordance with the *Código do Procedimento Administrativo*. Appeals against the final decision may be submitted to the Administration Board of FCIências.ID ([fciencias.id@fciencias-id.pt](mailto:fciencias.id@fciencias-id.pt)) within 15 business days after the notification date.

**Note 1:** The documents that prove the entitlement of the academic qualifications and diplomas, or the proof of registration in the academic degree or diploma requested on the call, can be dismissed during the application period and replaced by a declaration on their honour from the applicant. Their delivery is mandatory during the fellowship contractualisation.

**NOTE 2:** Please note that - higher education degrees and diplomas awarded by foreign higher education institutions need to be recognized by a Portuguese higher education institution, pursuant to the [Decree-Law nr. 66/2018](#) ( August 16) and the [Ministerial Order nr. 33/2019](#) (January 25). The presentation of the recognition certificate is mandatory for contract signature. More information can be obtained at: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>