

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

### 1 (one) Research Fellowship (BI) for BSc or MSc enrolled in a non-degree course

1 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution “OCELOT: One Health empiriCo-mEchanistic modelIng of antimicrObial resisTance”, “grant agreement number 2022.01539.PTDC”, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme Programme of All Scientific Domains, under the following conditions:

1. **Scientific Area:** Computational Biology

2. **Requirements for admission:**

- a) BSc degree in Biology, or Biochemistry, or Biotechnology, or Computer Science or related areas and/or a MSc degree in Applied Microbiology, or Molecular Biology and Genetics, or Biotechnology, or Computational Biology or related areas;
- b) Laboratory experience in microbiology and experience in molecular biology approaches;
- c) Experience in ecological modelling, modelling of infectious diseases and machine learning;
- d) Proficiency in programming languages associated with computational biology, e.g. R and/or Python.

3. **Additional optional skills and qualifications:**

- a) R&D activity, including the participation in national and/or international scientific projects, related with the ecology and/or epidemiology of infectious diseases;
- b) Scientific and/or professional training relevant to the development of the work plan underlying this call;
- c) Proficiency in Portuguese and English language (written and spoken)

4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in non-degree course developed in association or cooperation between a High Education Institution and one or multiple research units.

5. **Work plan:**

- 1) Collaboration, whenever necessary, in sampling and microbiological analysis of biological samples;
- 2) Development of the project’s georeferenced database and virtual research environment, collecting metadata, such as host, land use, epidemiological and climatic variables;
- 3) Data mining of (meta)data covarying with observed antimicrobial resistance (AMR) data (collected in other tasks) to infer ecological and populational determinants of AMR transmission risk, emergence and persistence. Data will include existing data sources, such as climatic variables, water distribution, farming distribution, land cover, host species distributions, etc.;
- 4) Ecological modeling and machine learning to establish the likelihood of AMR transmission and to provide insights for surveillance, control and awareness initiatives,
- 5) Preparation and participation in project meetings and subsequent actions;
- 6) Preparation of manuscripts for publication in scientific journals and other media;
- 7) Participation in dissemination, communication and stakeholder engagement activities of the project.

6. **Legislation framework:** 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 (Reg. 950/2019 published in DR on 16<sup>th</sup> December: <https://dre.pt/application/file/a/127230968>, or at the FCT website:

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<https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCIências.ID Fellowship Regulation, as approved on 12<sup>th</sup> May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCIências.ID](#)).

7. **Place of work:** The work will be developed at the cE3c – Centre for Ecology, Evolution and Environmental Changes, Faculty of Sciences of the University of Lisbon, Campo Grande, Lisboa, Portugal. under the scientific supervision of Professor Mónica Vieira Cunha.

8. **Fellowship duration:** This position is initially opened for 6 months due to start in September 2023. The fellowship contract may be potentially renewed for until the end of the project, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.

9. **Monthly allowance:** The fellowship amounts to € 930,98, according to [table values](#) of the fellowships awarded directly by the FCT, IP. The fellowship holder will have a personal accident insurance and can ensure the right to social security through adherence to the voluntary social insurance 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 monthly by bank transfer.

10. **Evaluation and selection process:** Candidates will be assessed by analysis of CV, certificates and motivation letter.

Evaluation of the relative merit of applicants will rely on the following criteria:

- a) Participation in relevant scientific projects in the area of epidemiology and/or ecology of infectious diseases using ecological modelling and/or machine learning methods - 60%;
- b) Scientific publications in the area of epidemiology and/or ecology of infectious diseases using ecological modelling and/or machine learning methods - 30%;
- c) Appreciation of motivation letter - 10%.

Applicants whose application is scored with a final classification of less than 80 points are not eligible for granting a fellowship.

11. **Selection Committee:** President of the jury: Professor Mónica Vieira Cunha;

Effective member: Professor Artur Bastos Lourenço;

Effective member: Professor Ana Maria Reis;

Alternate member: Professor Francisco Dionísio;

Alternate member: Professor José Lourenço.

12. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

13. **Deadlines:** This call for applications is open from 28/07/2023 to 10/08/2023 .

14. **Application:** Applications should be sent via e-mail to [mscunha@fc.ul.pt](mailto:mscunha@fc.ul.pt), by attaching the following documents:

- a. Curriculum vitae;
- b. Certificate of completion of previous degree <sup>Note 1, 2,</sup>
- c. Motivation letter.

15. **Processing of personal data:** FCIências.ID – Associação para a Investigação e Desenvolvimento de Ciências, as the controller under the General Data Protection Regulation, collects and processes the personal data requested

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in the context indicated in paragraph 14., under the legitimate interests in ensuring the award of the research fellowship to candidates with the indicated profile.

The personal data will be kept for the period necessary for the execution of the purposes for which they are intended, being ensured the processing and protection in an appropriate and diligent way, the confidentiality and integrity of these data, through appropriate technical and organizational measures.

Personal data may be transmitted to third parties, namely the entity funding the research project, solely for the purposes specifically established. In this sense, whenever the transfer of personal data to countries outside the European Union and/or international organizations is necessary, compliance with the applicable legal provisions is ensured.

You have the right to request access, rectification, elimination, limitation of processing, the right to object and also data portability (if technically feasible), through the e-mail address: [dpo@fciencias-id.pt](mailto:dpo@fciencias-id.pt). You also have the right to lodge a complaint with the National Data Protection Commission.

For more information, we recommend consulting the Internal Rules of Data Protection of FCIências.ID - Association for Research and Development of Sciences at <https://fciencias-id.pt/>.

16. **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 can be dismissed during the application period and replaced by a declaration on their honour from the applicant ([Minuta PT](#), [Minute EN](#)). Their delivery is mandatory for the fellowship contractualization.

**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>.