

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

1 (one) Research Fellowship (BI) for PhD Student

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 Deep multimodal Learning for breast Cancer DETection, EXPL/CCI-COM/0656/2021, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Deep Learning and Computer Vision
2. **Requirements for admission:** MSc in Biomedical Engineering. Experience with medical imaging and artificial intelligence.
3. **Additional optional skills and qualifications:** Experience with computer vision and deep learning
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in the PhD program in Biomedical Engineering and Biophysics
5. **Work plan:** The workplan comprises the following goals and tasks: 1) Train a 2D convolutional neural network on single slices of the 3D tomosynthesis volume and obtain the final prediction by aggregating the predictions for every class. There are several methods to do this, the most simple being taking the top-k most confident predictions and average. 2) Train a 3D convolution on every n slices of the 3D volume and obtain a single prediction for that volume. 3) Compare both approaches and inspect not only the performance values but also the failure cases. 4) writing a report.
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 16th December: <https://dre.pt/application/file/a/127230968>, or at the FCT website: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCiências.ID Fellowship Regulation, as approved on 12th May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCiências.ID](#)).
7. **Place of work:** The work will be developed at the IBEB, Faculdade de Ciências da Universidade de Lisboa, Campo Grande, Lisboa, Portugal under the scientific supervision of Professor Nuno Matela.
8. **Fellowship duration:** This position is initially opened for 6 months due to start in February 2022. The fellowship contract may be potentially renewed for 3 months, 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 € 1104,64 ,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

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10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (100%) and and possibly, a selection interview. If the jury chooses to carry out the selection interview, it will be to the 3 (three) candidates with the best classification in the curriculum evaluation. If the interview will be considered necessary, it will have a weighting of 30%, and the curriculum evaluation will correspond to 70%.
11. **Selection Committee:** Presidente – Nuno Matela, Vogal 1 – Hugo Ferreira, Vogal 2 – Nuno Garcia, Vogal suplente 1 – Helena Aidos, Vogal suplente 2 – Ana Gouveia
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 [27/01/22](#) to [09/02/2022](#).
14. **Application:** Applications should be sent via e-mail to lasige-candidaturas@listas.di.ciencias.ulisboa.pt, by attaching the following documents:
- Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
 - Certificate of completion of previous degree;
 - and other documents considered relevant.
15. **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) 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 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>.