

OPENING OF INTERNATIONAL TENDER PROCEDURE FOR HIRING TWO SOFTWARE ENGINEERS WITH A PHD WITHIN THE FRAMEWORK OF THE PROJECT " AI4LIFE - GAP-101057970 ", DESIGNATED BY "Artificial Intelligence for Image Data Analysis in the Life Sciences"

1. Within the powers delegated by the Board of Trustees of the Calouste Gulbenkian Foundation, the Trustee in charge of the Department of the Instituto Gulbenkian de Ciência authorized the opening of an international Tender for two software engineer positions to carry out scientific research activities, on an exclusive basis, at the Instituto Gulbenkian de Ciência (IGC) facilities, in Oeiras, Portugal, under an undefined term employment contract, with a view to filling a vacancy within the scope of the project "AI4LIFE - GAP-101057970", with the title "Artificial Intelligence for Image Data Analysis in the Life Sciences", financed by the European Research Executive Agency (REA) ('EU executive agency'), under the powers delegated by the European Commission.

The Optical Cell Biology Laboratory (OCB lab), based at the Instituto Gulbenkian de Ciência in Portugal and headed by the Prof. Ricardo Henriques (<https://gulbenkian.pt/ciencia/pt-pt/research-groups/rhenriques-pt-pt/>), is hiring two highly motivated software engineers with a PhD, with a keen interest in method research and infrastructure development. The position is funded via AI4LIFE, a Horizon Europe project that will provide sustainable, intuitive, and highest quality research services and infrastructures that will enable life scientists to exploit machine learning to improve the utility and interpretability of image data, the key to fast-paced progress in biomedical research.

The AI4LIFE project brings together top international experts in the field of deep-learning method development for life science imaging and translates these innovative methods to services that can be easily accessed by the community. Multiple workshops and hackathons will also be organized to encourage interactions within developers and users of the services. Dissemination of the crucial results from the AI4LIFE project will be highly relevant for the users of the infrastructure as well as the life science communities at large.

Scientific Area: Computational bioimage analysis and machine-learning in bioimaging.

2. Applicable legislation: Labour Code, as approved Law 7/2009 of February 12th with the amendments introduced by Law 93/2019 of September 4th and complementary legislation.
3. The tender selection panel will be as follows: President: Prof. António Cruz Serra; Members: Prof. Ricardo Henriques, Dr. Simão Coelho, Dr. Estibaliz Gomes de Mariscal. Substitute panel member Dr. Hannah Heil.
4. The place of work is located at the Instituto Gulbenkian de Ciência, at Rua da Quinta Grande n.º 6, Oeiras, Portugal.
5. The employment contract will be for an undefined term, scheduled to start in October 2022.
6. The gross remuneration will correspond to a pecuniary amount between levels 38 and 49 of the single remuneration table (TRU), as approved by Decree-law no. 109-A/2021, its definition depends

on the evaluation of the post/doctoral experience and scientific curriculum after the doctorate revealed at the time of application.

7. Applicants to this Tender can be national, foreign, and stateless candidates who hold a doctoral degree in Computer Science, Physics, Mathematics or Informatics and have a scientific and professional curriculum evidencing an adequate profile for the activity to be carried out. If the doctorate degree was granted by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018, of August 16 and of the Regulatory Ordinance No. 33/2019, of January 25, and all formalities established therein must be complied with until the date of signing the contract (<https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>). In case the doctorate degree of the selected candidate does not comply with the Decree-Law above mentioned including all its formalities, the Selection Panel reserves the right to select the next best candidate.

8. Tender admission requirements: we are seeking independent candidates with a PhD degree in Computer Science, Physics, Mathematics or Informatics; Publication record that attests conduction of research in computer vision, and/or machine learning, and/or computational bioimage analysis; Good programming skills in languages such as Python and Java; A deep understanding of agile development methods, python, and ideally also Java (Fiji); Familiarity with software engineering tools and methods (git; Github; Jenkins, Travis, or GitHub actions; automated test suits, etc. etc.); Proficiency with at least one established analysis software (eg.Fiji, ZeroCostDL4Mic, ilastik, Cell Profiler, Napari, Imaris, Arivis, or a similar tool); Experience with virtualization software and high performance computing (HPC) is desirable; Experience with web technologies is a plus; Good communication skills, including a good spoken English level, are necessary.

9. Evaluation criteria: applications will be evaluated according to the Curriculum vitae and the reference letters (35%), the motivation letter (30%). If deemed necessary by the selection panel, the interview of the selected candidates will represent 35% of the final classification. The final results will be presented on a scale from 0 to 100. The decision is made by nominal vote, in accordance with eligibility and selection criteria, with no abstentions allowed.

10. The decision is made by nominal vote of the selection panel members, in accordance with eligibility and selection criteria, with no abstentions allowed. The final results will be presented on a scale from 0 to 100.

11. Minutes of the panel meeting should be drawn up to include a summary of all occurrences of said meeting, as well as all votes cast by the members with the respective justification together with a sorted list of approved candidates with their respective classification. These minutes should be made available to candidates whenever requested.

12. The final decision of the jury should be validated by the member of the Board of Trustees with a mandate for this purpose, who is also responsible for deciding on the hiring.

13. Application submission:

13.1. Applications should be submitted to the Trustee of the Instituto Gulbenkian de Ciência with the subject “**AI4Life_PostDoc call**” and sent to the email rjhenriques+AI4LifePDApp@igc.gulbenkian.pt. All applications must include the following information concerning the applicant: full name, number and date of validity of the Identity Card or passport, tax number, date of birth, taxing address, e-mail address and telephone contact.

13.2. Applications should include documents evidencing the conditions provided for above for applying to this Tender (single pdf file named “candidate name_AI4Life.pdf”) namely:

- a) Introduction letter explaining the motivation to develop the project and including a summary of relevant experience;
- b) Copy of certificate or doctoral diploma referring the relevant conclusion date;
- c) CV that includes the contacts of three references (name, position, mailing address, phone number and email address
- d) List of up to 3 most relevant publications and reasons for selecting them;
- e) Other documents relevant to assess the application and the capacity in the related scientific area.

All candidates (taxpayers in Portugal) are required to present evidence of fulfilment of their individual obligations towards the Portuguese Tax Authority and Social Security. Failure to comply with this requirement will be considered as a reason for exclusion from the selection process.

13.3. The period for submitting the applications to this Tender, is between 15/09/2022 and 31/10/2022 .

14. All applicants who fail to submit their application correctly or who fail to provide the requirements imposed by this Tender within the dates indicated or who do not meet the legal requirements necessary to be hired under a term employment contract herein are excluded from admission. In case of doubt, the panel is entitled to request further documentation to support candidate statements.

15. False statements by the applicants shall be punished by the law.

16. The list of admitted and excluded applicants, as well as the final classification list, will be published on the Instituto Gulbenkian de Ciência internet site at <https://gulbenkian.pt/ciencia/>. The Applicants will be notified by e-mail with receipt of delivery of the notification.

17. Deadline for Final Decision and Claims:

Within a maximum period of 90 days, counting from the deadline for the submission of the applications, the final decision of the selection panel shall be announced. After being notified of the panel's decision, applicants shall have 10 working days to issue an opinion.

18. This tender is intended exclusively to fill this specific vacancy and can be terminated at any time until the approval of the final candidate list, expiring with the respective occupation of said vacancy.

19. The hiring decision may, by duly substantiated act of the member of the Board of Trustees mandated for this purpose, be revoked for reasons of strategic management, determined by the

reorganization of the organic unit in question or by unforeseeable supervening circumstances at the date of approval of the list of final ranking of candidates, relating to the assumptions of the decision to hire and based on reasons of manifest public and institutional interest that justify it.

20. Non-discrimination and equal access policy:

The Instituto Gulbenkian de Ciência of the Calouste Gulbenkian Foundation actively promotes a non-discrimination and equal access policy, so that no candidate can be privileged, benefited, harmed or deprived of any right or exempt from any duty on grounds, in particular, of ancestry, age, sex, sexual orientation, marital status, family and economic conditions, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological beliefs and trade union membership.

21. Privacy Policy:

The Calouste Gulbenkian Foundation is the controller responsible for the processing of Personal Data in accordance with Regulation (EU) 2016/679 (General Regulation on Data Protection).

The personal data processed within the scope of this tender procedure are processed within the framework of said tender procedure only and will be processed by the Calouste Gulbenkian Foundation with the purpose of verifying the fulfilment, by the applicants, of the assumptions established in the applicable legislation for their contracting. Opposition to the processing of the data by the applicants will make it impossible to accept the application and, therefore, to analyse and evaluate it.

The personal data of the Data Subject, if indispensable for the fulfilment of the obligations of the Calouste Gulbenkian Foundation, may be disclosed to third parties, namely the Funding Entities identified in this public notice.

The personal data shall be retained for a period of five years pursuant to Article 32 (1) of the Labour Code.

The Data Subject is entitled to oppose to the collection and processing of data, has the right to verification, the right to rectification, the right to deletion, and the right to restriction of processing of the data collected. However, the exercise of such rights may be excluded when the personal data is used to protect public interest, namely in the detection and prevention of crimes or when subject to professional rules of confidentiality.

The Data Subject has the right of access and portability of the data.

The exercise of the aforementioned rights must be made in writing and addressed to the Privacy Committee of the Calouste Gulbenkian Foundation, by email to privacy@gulbenkian.pt or, alternatively, through the postal address at Avenida de Berna 45-A, 1067-001 Lisbon.

The applicant also has the right to submit a complaint to the National Data Protection Commission or other competent control authority in accordance with the law if he/she considers that the data are not being processed in accordance with the European and/or national legislation applicable.

22. Pursuant to D.L. No. 29/2001, of February 3, disabled applicants have preference in an equal classification situation, which supersedes any legal preference. Applicants must state, when applying, under oath, the respective degree of disability, the type of disability and the means of communication to be used in the selection process, under the terms of the aforementioned diploma.