

**OPENING OF INTERNATIONAL TENDER PROCEDURE FOR HIRING A
POSTDOCTORAL RESEARCHER WITHIN THE FRAMEWORK OF THE PROJECT
“BIOECONOMIA AZUL - VERTICAL ALGAS”, DESIGNATED BY “Pacto da
Bioeconomia azul”**

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 opening of an international Tender for the position of postdoctoral researcher to carry out scientific research activities at the Instituto Gulbenkian de Ciência (IGC) facilities, in Oeiras, Portugal, under an undefined employment contract, with a view to filling a vacancy within the scope of the project “**BIOECONOMIA AZUL - VERTICAL ALGAS**”, with the title “**Pacto da Bioeconomia azul**”, funding under *Aviso Convite n.º 02/C05-i01/2022 referente ao desenvolvimento de projetos no âmbito das Agendas Mobilizadoras para a Inovação Empresarial, enquadrado e financiado no âmbito da componente n.º 5 - Capitalização e Inovação Empresarial do Plano de Recuperação e Resiliência de Portugal.*

The newly established Advanced Data Analysis Unit is seeking a talented and motivated bioinformatics technician to join our team. The successful candidate will be responsible for providing technical support for transcriptomics data analysis, with a particular focus on single cell RNA sequencing data. The ideal candidate will have a strong background in bioinformatics, computational biology, and statistical analysis methods.

Responsibilities:

- a) Preprocess and analyze RNA sequencing data, both bulk and single-cell;
- b) Infer transcriptional trajectories (developmental or differentiation);
- c) Manage and analyze large datasets with attention to accuracy, completeness, and quality control;
- d) Work collaboratively with scientists and stakeholders to develop analysis plans;
- e) Develop and maintain pipelines for single cell RNA sequencing data analysis;
- f) Communicate technical information effectively to researchers, and present analysis findings;
- g) Troubleshoot technical problems and develop innovative solutions for data analysis;
- h) Keep up-to-date with the latest developments in bioinformatics, transcriptomics, single cell RNA sequencing, and data analysis tools and methods.

Scientific Area: Bioinformatics.

2. **Applicable legislation:** Decree-Law No. 57/2016, of 29 August, which approves the Legal Regime for Scientific Employment, in the wording given to it by Law No. 57/2017, of 19 July, by Regulatory Decree No. 11-A/2017, of December 29 and by the Labor Code approved by Law 7/2009, of February 12, with the changes introduced by Law 93/2019, of September 4, and other complementary legislation.

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3. The tender selection panel will be as follows: President: Dr. Ricardo Leite; Members: Dr. Tiago Paixão and Dr. Moises Mallo. Substitute Member: Dr. Rui Oliveira.

4. The place of work is located at the Instituto Gulbenkian de Ciência, at Rua da Quinta Grande nº6, Oeiras, Portugal.

5. The employment contract will be for an uncertain term under the Labor Code, with a maximum duration of six years, under the provisions of article 6 nº 1 b) and 3 of Decree-Law nº 57/2016 of 29 August, revised by Law nº 57/2017 of July 19, by Regulatory Decree No. 11-A/2017, of December 29.

6. Monthly remuneration to be paid is set by article 15, number 1 of Law 57/2017, of 19th July and article 2, number 1 of Regulatory Decree no. 11-A/2017, of December 29, corresponding to the level 38 of the Single Salary Table, approved by Order no. 1553-C/2008, of 31st December, updated under the terms of Decree-Law nº 109-A/2021 of December 7, on exclusive dedication.

7. Applicants to this Tender can be national, foreign, and stateless candidates who hold a doctoral degree in biology or similar and have a scientific and professional curriculum evidencing an adequate profile for the activity to be carried out. If the 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. 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. General tender admission requirements:

- a) PhD degree in bioinformatics, computational biology, computer science, or a related field;
- b) Proficiency in programming languages such as Python and R;
- c) Experience with analysis of RNA sequencing data analysis tools such as ddseq2, edgeR, star, samtools, as well single cell packages such as Seurat, Scanpy, and Cell Ranger;
- d) Experience with cell trajectory analysis (eg slingshot) and rna velocity tools;
- e) Familiarity with databases and resources such as RefSeq, Cell Atlas, Ensembl, and NCBI Gene Expression Omnibus;
- f) Knowledge of statistical analysis methods and data visualization techniques for single cell RNA sequencing data;
- g) Previous experience with marine and plant transcriptome data will be valued;
- h) Excellent written and oral communication skills to collaborate with scientists, communicate technical information, and present findings;
- i) Strong attention to detail and ability to manage large datasets with accuracy and completeness;
- j) Ability to troubleshoot technical problems and develop innovative solutions for analyzing and interpreting single cell RNA sequencing data;
- k) Strong time management skills and ability to work on multiple projects simultaneously.

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9. Evaluation criteria: applications will be evaluated according to the Curriculum vitae (45%) and references (15%) and the motivation letter (30%). If deemed necessary by the selection panel, the interview of the selected candidates will represent 10% of the final classification.

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 is approved by the member of the Board of Trustees mandated for this purpose, who is also responsible for deciding on the hiring.

13. Application formalization:

13.1. Applications are addressed to the Director of the Instituto Gulbenkian de Ciência, and must be formalized to the email address igcpositions@igc.gulbenkian.pt with subject “*Candidate’s Name_ BIOECONOMIA AZUL_ transcriptomics*”, containing the identification of this tender, full name, number and date of the identity card, Citizen Card or civil identification number, tax identification number, date and place of birth, residency address including e-mail address and telephone number.

13.2. The Applications shall include all documents providing evidence for the conditions laid down in sections 7 and 8 for admission to this call (single pdf file named “*Candidate’s Name_ BIOECONOMIA AZUL_ transcriptomics*”), 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 21/07/2023 and 21/08/2023.

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.

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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. On-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

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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.

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