

NOTICE OF THE OPENING OF AN INTERNATIONAL CALL FOR THE RECRUITMENT OF ONE PHD RESEARCHER

Ana Cristina Moreira Freire, Full Professor and Dean of the Faculty of Sciences of the University of Porto, hereby advertises the opening of a **10-working-day** international call for recruitment of **one PhD researcher** within Project COMPETE 2030-FEDER-00799900 – no. 16815, financed by Programa Inovação e Transição Digital (COMPETE 2030) – funded by Fundo Europeu de Desenvolvimento Regional (FEDER) and co-financed by Fundação para a Ciência e a Tecnologia (FCT).

This competitive procedure is subject to the signing of the Acceptance Term for the COMPETE2030-FEDER-00799900 - no. 16815 Project.

1. Main research field: Chemistry

2. Admission requirement: Application can be submitted by any nationals, foreigners and stateless people who meet the following conditions: hold a **PhD degree** in the above-mentioned scientific area.

If the candidate holds a doctorate awarded by a foreign higher education institution, it must comply with the provisions established in the Decree-Law no. 66/2018. All the formalities established in the Decree-Law must be met until the hiring.

Failure to comply with these requirements determines the preliminary rejection of the application.

Preferred requirements:

- a) Experience in research, development, and innovation in the cork sector;
- b) Experience in the characterization and quantification of organic compounds using HPLC and mass spectrometry;
- c) Experience in microscopy and absorption and fluorescence spectroscopy;
- d) Experience in microorganism cultivation;
- e) Experience in quality assessment procedures and quality improvement of cork-based biomaterial products;

- f) Ability to lead teams and manage research, development, and innovation projects;
- g) Experience in supervising projects/internships and master's theses, as well as participation in scientific committees.

3. Job description:

As a PhD Researcher, you will be responsible for carrying out research and development activities and all other scientific and technical activities within the scope of the missions of the respective Organic Unit and of U.Porto regularly [Article 7(2) of Regulation 487/2020 of 22 May] and you will contribute by carrying out the duties described below to the objectives set out in the programme contract for the project as mentioned above.

You will therefore:

- a) Participate in the development and execution of research and development projects and related scientific and technical activities [Activities 1 to 5 – Extract polyphenols from agroforestry and food products and by-products, characterize them using HPLC-MS/MS, absorption and fluorescence spectroscopy, develop and characterize polyphenol-based antimicrobial nanomaterials, assess stability and efficacy, and implement them in relevant environments];
- b) Monitor the work developed within the projects under their responsibility [Activity 7 – Contribute to project management in collaboration with activity leaders, participating institutions, and involved companies, working directly with the PI to create a new antimicrobial through an experimental development strategy, combining existing scientific knowledge to design an antimicrobial solution, generating new scientific advances and addressing an identified problem];
- c) Collaborate in the development of training actions within the research and development methodology [Activity 6 – Participate in international conferences with oral presentations and poster communications, publish in relevant impact scientific journals, and conduct technological dissemination to communicate technical advances to end-users. Additionally, contribute to organizing a symposium on the project's themes, culminating in the final presentation of the developments made];
- d) Monitor the research work developed by the fellows, research interns, and research assistants, and participate in their training [Monitor the research and development work of the fellows allocated to Activities 3 and 4 of the project];

- e) Collaborate in teaching and participate in the institution's training programmes [Possibility of teaching service at the Faculty of Sciences of the University of Porto. (Up to four teaching hours per week, on an annual average by Article 12, nº 3 of Regulation nº 487/2020 of Research, Science and Technology Personnel of the University of Porto)];
- f) Guidance of higher education students, specifically at the undergraduate, master's, and doctoral levels [Activity 6 – Monitor the guidance of Bachelor's, Master's, and Doctoral students in the field of Chemistry and related areas relevant to the project, proposing undergraduate projects, master's theses, and doctoral dissertations. Also, contribute to the dissemination of the project in institutional initiatives].

4. Legal Framework: Decree-Law N°, 57/2016 of 29th August, amended by Law no. 57/2017 of 19th July, establishing the Regulation of Scientific Employment (Regime Jurídico do Emprego Científico); Regulatory Law no. 11-A/2017 of 29th December; the Labour Code in the current version of Law no. 7/2009 of 12th February.

Regulation No. 487/2020 of the Research, Science and Technology Staff of the University of Oporto, published in the 2nd series of Diário da República no. 100/2020 on May 22, 2020.

Code of Administrative Procedure, approved by Decree-Law no. 4/2015, of 7 January, in its current wording.

5. The place of work: The tasks will be developed in the Department of Chemistry and Biochemistry of the Faculty of Sciences of the University of Porto.

6. Duration of work permanent contract: This employment contract is scheduled to begin in **May 2025** and will continue only for the period necessary to carry out the duties defined, **on an exclusive dedication basis**, the foreseeable duration of which is 31,5 months, never exceeding the maximum limit of six years.

7. Remuneration: € 2.351,53 by paragraph a) of paragraph 1 of article 15 of Law No. 57/2017, of 19 July and with the first remuneration position of the initial level provided for in article 2 of the Regulatory Decree n. 11-A / 2017, of 29 December, corresponding to level 33 of the single remuneration table updated by DL 10-B / 2020.

8. Methods of selection and definition of their weights/evolution criteria: According to Article 5 of the RJEC, selection will be based on the evaluation of the candidates' scientific and academic career.

Grading system:

The Assessment of the Scientific and Curriculum Path (**APCC**) will be based on the Curriculum vitae presented by the candidate(s), and focused on the last 5 years of activity:

- Expertise in the characterization and quantification of organic compounds using HPLC and mass spectrometry, as well as in microscopy techniques, absorption and fluorescence spectroscopy, and microorganism cultivation;
- Experience in research, development, and innovation applied to cork, including the evaluation and improvement of the quality of products derived from this biomaterial;
- Proven ability to lead teams and manage research, development, and innovation projects, ensuring the efficient execution of activities;
- Experience in supervising projects, internships, and master's theses, participation in scientific committees, and involvement in the dissemination of knowledge through institutional initiatives and conferences.

Note: These criteria will be evaluated based on the information described in the detailed Curriculum vitae and other documents presented in the application. The Curriculum vitae must be structured taking into account the sequence of the criteria mentioned above.

The period of five years referred to in the previous paragraph may be increased by the jury, at the request of the candidate and/or when justified by the suspension of scientific activity for reasons of social protection, namely due to parental leave, prolonged serious illness and/or other situations of unavailability of legally protected work.

Based on the criteria defined above, the quantitative assessment of the candidates' profile will be carried out taking into account the following requirements that substantiate them and their respective weighting:

$$APCC = A*70\%+B*30\%$$

- A. Candidate's suitability for the development of the project (0 – 100 points)
- B. Professional experience (0 – 100 points)

The evaluation process **may include** an interview/presentation/demonstration session of the **3 best-positioned candidates** to be selected by the jury, which is exclusively intended to clarify aspects related to the results of your investigation.

In this case, the final classification (**CF**) after the interview will have the following weighting: 90% of the previous classification and 10% of the interview rating (**E**), with the following formula:

$$CF = APCC*90\% + E*10\%$$

9. Evaluation Methodology

9.1. After the admission of the applicants, and before starting the voting for their final ranking in the evaluation of their scientific and curricular background, each member of the Board presents a written document, to be attached to the meeting minutes, with the list of the applicants in descending order of merit, duly substantiated, considering the criteria and parameters of this tender notice.

9.2. The seriation methodology is indicated in article 29º of the Regulation No. 487/2020.

9.3. If an absolute majority of votes is not reached after the voting explained in the previous number, or in case of a tie, the Chair's vote will be used for the final ranking.

9.4. Each member of the Board must respect, in the various voting rounds, the order he or she presented in the document referred to in paragraph 9.1.

Minutes of the meetings of the jury are drawn up, containing a summary of what has taken place in the meetings, as well as the votes cast by each of the members and their reasons, which may be contained in autonomous documents attached to the minutes, being signed by all members of the Jury present.

Only candidates with a rating of 80 points or higher, by the majority of selection panel members, are eligible for hiring.

The Board's final decision is approved by the head of the institution responsible for opening the tender notice. The final hiring decision is the responsibility of the top manager of the hiring entity.

10. Composition of the Selection Committee:

President: Nuno Filipe da Cruz Batista Mateus, Full Professor, Department of Chemistry and Biochemistry, Faculty of Science, University of Porto;

1st member: Iva Luzia Reis Fernandes, Assistant Professor, Department of Chemistry and Biochemistry, Faculty of Science, University of Porto;

2nd member: Victor Armando Pereira Freitas, Full Professor, Department of Chemistry and Biochemistry, Faculty of Science, University of Porto;

1st substitute member: Susana Isabel Pinto Teixeira Pereira Soares, Assistant Professor, Department of Chemistry and Biochemistry, Faculty of Science, University of Porto.

11. Results notifications:

The Human Resources Unit of the Faculty of Sciences of the University of Porto will notify candidates of the decisions made throughout the tender procedure. All candidates will be notified of the final decision of the Selection Committee. Notifications are sent by email, under the terms of articles 112(1)(c) and 113(5) of the CPA.

Lists of admitted and excluded candidates, as well as the final ranking lists, will be published and advertised on the webpage of this call at the Faculty of Sciences of the University of Porto, and all candidates will be notified by under the terms of the Code of Administrative Procedure.

12. Submission of applications: The applications must be exclusively submitted through the web page of this opening https://sigarra.up.pt/fcup/pt/CNT_CAND_GERAL.CONCURSOS_LIST n° **518** within **10 working days** after publication in DR, at the attention of the Selection Committee, and include the following documents:

- a) Application (**available in this opening SIGARRA, signed and current date**);
- b) Certificate or PhD diploma;
- c) Detailed *Curriculum vitae*;
- d) A brief description of the most relevant scientific activities for the last 5 years;
- e) Other documents deemed important by the candidate for the evaluation.

All candidates who improperly submit their applications or fail to fulfil the requirements established in this call are excluded from admission. In case of doubt, the Selection Committee is entitled to request any candidate to present further documentation to support their statements. False statements provided by candidates are punishable by law.

The documents referred to in paragraphs **a) to d)** are mandatory.

Candidates who incorrectly formalize their candidacy are excluded from admission to the competition.

13. Final Decision: Under the terms of article 121 of the Code of Administrative Procedure, after being notified, the candidates have 10 working days to pronounce. Within a maximum period of 90 days from the deadline for the submission of applications, the final decisions of the jury are given.

14. The present insolvency proceeding is **exclusively intended to fill the vacancies indicated** and may be terminated until the homologation of the final ordering list of the candidates and expiring with the respective occupation of the jobs on offer.

15. Non-discrimination and equal access policy: FCUP actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, beneficiary, disadvantaged or private of any right or exemption from any duty owing, in particular, to ancestry, age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership.

Under the terms of D.L. No. 29/2001, of February 3rd, the disabled candidate has preference in equal classification, which prevails over any other legal preference. Candidates must declare their respective degree of incapacity, the type of disability, and the means of communication/expression to be used in the selection process, under the terms of the aforementioned diploma.

The application is open from April 10, 2025, to April 24, 2025.