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CALL FOR APPLICATION FOR A RESEARCH SCHOLARSHIP

Ref^a: Wine Sensor_ BI

[Portuguese version](#)

A call for tenders is now open for the attribution of one Research Scholarship within the scope of the Project “WineSensor: AI-supported voltammetric sensor for monitoring wine oxidation” financed by the Cork Supply Portugal, SA, under the following conditions, set out below.

Scientific area: Biotechnology and Nutritional Sciences

Admission requirements:

General requirements:

Candidates for the Research grant must, at the date of application, be enrolled, or present a commitment to enroll in a study cycle conferring an (Doctoral) degree in Biotechnology or related areas. Candidates for the Research Grant, after selection, in order to begin the contracting process, must enroll in the Biotechnology doctoral program at the School of Biotechnology, in accordance with the theme and work plan of the grant to be carried out within the scope of the aforementioned project. Indeed, this doctoral program must be carried out at the School of Biotechnology of the Catholic University of Portugal and supervised by a team identified for the implementation of the work plan.

Candidates must hold a master’s degree in Biochemistry, Environmental Sciences, Pharmaceutical Sciences, Food Engineering, Biomedical Engineering, Biotechnology and Innovation, or related fields, and meet the admission criteria of the general doctoral regulations of the Universidade Católica Portuguesa.

Specific requirements:

Candidates must also have knowledge/research experience in the following areas:

- Experience or training in spectroscopic techniques, namely UV-Vis, fluorescence, FTIR, NIR, Raman or other techniques applied to the characterization of chemical, food or biological matrices.
- Knowledge of chemometrics and multivariate data analysis, including methods such as PCA, PLS, PLS-DA, multivariate regression, classification and model validation.



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- Experience in the processing and interpretation of experimental data, preferably using tools such as Python, R, MATLAB, Origin, Unscrambler, SIMCA or equivalent software.
- Knowledge of analytical chemistry applied to food, environmental or biological matrices, with particular emphasis on experience in wine analysis, phenolic compounds, antioxidant activity or oxidation processes.
- Ability to develop, validate and apply analytical methodologies, including sample preparation, data acquisition, quality control, statistical analysis and critical interpretation of results..

Preferred Factors:

Will be considered preferred factors:

- Knowledge of machine learning and advanced data analysis, including classification, regression, variable selection, model validation and interpretation of results applied to experimental data.
- Experience in molecular biology, namely in techniques for the extraction, quantification and analysis of biomolecules, or in methodologies applied to the characterization of biological, microbiological or food systems.
- Knowledge of applied electrochemistry, including techniques such as cyclic voltammetry, differential pulse voltammetry, chronoamperometry, electrochemical impedance, or the development/application of electrochemical sensors.
- Experience in the integration of analytical data obtained from different techniques, such as spectroscopy, electrochemistry, biochemical assays and molecular methods.
- Ability to apply computational and statistical tools to the interpretation of experimental results, preferably using Python, R, MATLAB or equivalent software.

Work Plan:

The Research Fellow will participate in the following project tasks, namely:

- Preparation and characterization of wine samples.
- Performance of spectroscopic and electrochemical analyses.
- Evaluation of the chemical/phytochemical profile of the samples, including phenolic compounds, oxidation markers and antioxidant activity.
- Development, optimization and validation of analytical methodologies.
- Statistical, chemometric and machine learning-based processing of the data obtained.
- Integration of analytical data to support sample classification and characterization.
- Support in the validation of sensors and rapid analytical methodologies.



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- Monitoring and guidance of the experimental work to be carried out at Cork Supply, within the scope of the activities planned in the project.
- Preparation of reports, scientific communications and publications.

Applicable legislation and regulations:

- Statute of the Scientific Research Fellow: <https://dre.pt/web/guest/legislacao-consolidada/-/lc/58216179/view?w=2019-08-28>;
- Regulation of Research Scholarships of the Science and Technology Foundation, I.P.: <https://dre.pt/application/conteudo/127238533>;
- Regulation of Research Scholarships of the Portuguese Catholic University: http://www.porto.ucp.pt/sites/default/files/files/DRH/RegBolsasInvestigacao_Cientifica_UCP2020.pdf

Workplace:

The work will be developed at the CBQF - Centro de Biotecnologia e Química Fina. of the Universidade Católica Portuguesa in Portugal, in Porto, under the scientific supervision of Antonio Cesar da Silva Ferreira.

Duration of the scholarship:

The scholarship, on an exclusive basis, will have an initial duration of 12 months, with an expected start date of September 1, 2026, and may be renewed up to a maximum total duration of 36 months for the research scholarship.

Monthly maintenance allowance amount:

The amount of the scholarship corresponds to 1 359,64 €. according to the research scholarship values awarded directly by FCT, I.P. in the Country (<https://www.fct.pt/wp-content/uploads/2026/03/Tabela-de-Valores-SMM-2026.pdf>) and will be paid by bank transfer.

Selection methods:

The selection methods to be used will be the following: i) curriculum evaluation (60%); ii) previous experience (40%). If necessary, the 3 best positioned candidates may be interviewed, and in this situation, the weighting will be curricular evaluation (50%); ii) previous experience (30%) and selection interview (20%).



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Only candidates with a final classification equal to or greater than 60 points, on a scale of 0 to 100, will be selected for this position.

Applications that do not meet the admission requirements, delivered on time and incomplete applications will be considered ineligible.

Composition of the Selection Jury: President of the Jury: António César Ferreira, Effective Members: Antonio Rangel and Sara Silva. Substitute Jury: Raquel Mesquita.

Form of advertising/notification of results: The jury deliberates in accordance with the selection criteria adopted and disclosed. The jury meetings minutes will contain a summary of the meeting content. After completing the application of the selection criteria, the jury proceeds with the elaboration of the ordered list, with the ranking of the approved candidates. The ranking list of eligible candidates will be published on the premises of the Universidade Católica Portuguesa, in Porto, located at Rua de Diogo Botelho, 1327, 4169-005 Porto - Portugal, with each candidate being notified of his/her position on the list ranking of candidates via email. Ineligible applicants will be notified by email, with details of the missing eligibility elements.

Complaint and appeal procedures: Candidates have a period of ten working days, after the disclosure referred to in the previous number, to give their opinion at a prior hearing.

Deadline for acceptance of the scholarship: Within ten working days following notification of the grant award, the selected candidate must confirm in writing his/her availability to start the scholarship on the proposed date. Failing to do so or not having availability, the candidate placed in the next position will be called.

Application deadline and form of submission:

Candidates submit their application from July 8, 2026. until July 22, 2026. (until 5 pm, Lisbon time).

Applications are formalized by completing the **Application Form** <https://hr-ucpporto.inqueritos.porto.ucp.pt/295154?lang=en>.



It will be necessary to submit the following documents:

- 1) Cover letter, identifying the title and reference of the project, describe the motivation and professional objectives of the candidate.
- 2) Detailed Curriculum Vitae (should contain all the elements to assess the admission requirements, including language knowledge and research experience).
- 3) Copy of the certificate(s) of qualifications conferring academic degree in the terms requested in the notice, which contain the final classifications.
- 4) Registration of recognition of the academic degree awarded by a foreign higher education institution, preferably with the registration of the conversion of the respective final classification to the Portuguese classification scale to guarantee eligibility in this call for application¹.
- 5) Proof of registration or letter with the commitment to register/enroll in a degree-awarding study cycle under the terms already described in this notice ².

Only applications received during the opening period of the above-mentioned call shall be considered. Candidates who incorrectly formalize their application or who do not prove the requirements of this call are excluded. False statements made by applicants will be punished under the law.

Privacy Policy:

Universidade Católica Portuguesa 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 in the scope of this tender procedure is processed within the framework of said tender procedure only and will be processed by Universidade Católica Portuguesa with the purpose of verifying the fulfilment, by the candidates, of the assumptions established in the applicable legislation for their contracting. Opposition to the processing of data by the candidates will make it impossible to accept the application and, therefore, to analyse and evaluate it.

¹ If the required academic degree has been conferred by a foreign higher education institution, it must comply with the Portuguese legislation on the recognition of foreign degrees, regulated by DL no. 66/2018 of 16 August.

Applicants are advised to consult the website of the Directorate-General for Higher Education (DGES) for additional information on this matter: <https://www.dges.gov.pt/pt/pagina/reconhecimento>

² The contracting of the research scholarship requires the candidate to provide enrollment in the degree-awarding course required in this notice. If the document is not presented within a maximum period of 30 days (in a row), counting from the date of communication of the selection to the candidate, the Jury Panel will have the power to disqualify the application due to failure to present the registration within the aforementioned period.



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The personal data of the Data Subject, if it be indispensable for the fulfilment of the obligations of Universidade Católica Portuguesa, may be conveyed to third parties, namely to the Financing Entities identified in this announcement.

The data retention period shall correspond to the legally defined period of five years.

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.

Rights of Personal Data Subjects: <https://www.ucp.pt/rights-data-subjects>.

For purposes of exercising the respective rights, contact the University through the e-mail address compliance.rgpd@ucp.pt or by using the address found at the end of this announcement, through the means set out in "Contacts for clarification".

The Data Subject is always entitled to contact and file a complaint with the Comissão Nacional de Proteção de Dados (Portuguese Supervisory Authority for Personal Data).

Non-discrimination and equal access policy:

Universidade Católica Portuguesa actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, gender, sexual orientation, marital status, family status, family and economic conditions, instruction, 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 convictions, and union membership.

If you have any questions about this position, please contact:

Universidade Católica Portuguesa – Centro Regional do Porto

Rua de Diogo Botelho, 1327

4169-005 Porto, Portugal

Direção de Recursos Humanos

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