



MED – Mediterranean Institute for Agriculture, Environment and Development

Scholarship for Bachelor Degree – 1 position

10 of November of 2021

A call for tenders is open for one Scholarship within the scope of the project QualFastNut - **Utilização da espectroscopia NIR para a análise rápida da qualidade em frutos secos** ref. ALT20-03-0246-FEDER-000064, co-financed by European Regional Development Fund (ERDF) through Alentejo2020 regional fund, under the following conditions:

Scientific area: Agricultural Sciences

Admission requirements:

- Agronomy degree
- Student from a Msc degree
- Attested experience in remote detection, SIG and in assessing broadscale vegetation health.
- Attested experience in remote detection and spectroscopic data analysis and also in the use of spectrometers devices.
- Attested experience in analytical determinations such as starch quantification and nutrients chemical evaluations in plant material.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 3 and 6, candidates for “**BI**” (Research Grants) must comply as a rule condition for the award of the scholarship, the effective inclusion in study cycles leading to the attribution of academic degrees or in courses not leading to an academic degree.

Work plan: To work in spectroscopic data analysis from FT- NIR spectrometers to develop calibration models to be used in quality evaluations in fruit nuts from Alentejo using chemometric techniques. The quality parameters that will be calibrated are the fruit moisture and the level of some nutrients (N, Ca and K) in walnut and almond trees. Analytical evaluations using reference methods using chemical procedures will be also carried on during the project, such as starch enzymatic quantification, nitrogen, calcium and potassium quantification. It will be necessary to organize training sessions to disseminate the project results and to take the feedbacks from the local producers associations. Integrating the team of the project: **Utilização da espectroscopia NIR para a análise rápida da qualidade em frutos secos**, reference ALT20-03-0246-FEDER-000064.

Applicable legislation and regulations: The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx, pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt> and other applicable rules.

Place of work: The work will be developed at MED – Mediterranean Institute for Agriculture, Environment and Development of the University of Évora in “Pós-Colheita” Lab., under the scientific guidance of the Professor Ana Elisa de Mendonça Rato Barroso.

Duration of the scholarship: The scholarship will have a duration of 6 months, starting on december of 2021. The scholarship contract may be renewed until the end of the funding project's budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to €835,98, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (<http://fct.pt/apoios/bolsas/valores>), payments being made monthly, by check or bank transfer.

Selection methods: The selection of admitted candidates will be made through curriculum evaluation and experience based on the following weighted criteria:

- a) Training in the areas of remote sensing, GIS and use of proximate sensors in plants – as described in admission requirements (maximum of 90 points)
- b) Experience on working with farmers and training agents linked to the sector (maximum 10 points)

In the event that none of the candidates for the competition meets the appropriate profile, the jury reserves the right to close the competition without selecting a candidate.

In case of a tie, to select the first classified, candidates with the same classification will be submitted to an interview where the following aspects will be evaluated:

- Ability to express and communicate
- Motivation for teamwork
- Expectations of personal and professional development
- Verification of professional experience declared in CV
- Verification of the knowledge level of English language

Composition of the Selection Jury:

President: Prof. Ana Elisa Rato Barroso
1st Effective Member – Prof. João Manuel Mota Barroso
2nd Effective Member – Prof. Hélia Cardoso
1st Alternate Member – Prof. Augusto Peixe
2nd Alternate Member – Prof. António Bento Dias

Advertising/notification of results: The final results of the evaluation will be publicized, through an ordered list by final grade obtained posted in a visible and public place in MED, being the candidate approved notified through email. To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.

Application deadline and submission of applications: The tender is open from 11 to 25 November of 2021 and the results of the selection will be published by 30 of November of 2021.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: Curriculum Vitae, certificate of qualifications, reference or recommendation letters and other supporting documents considered relevant.

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/recognition?plid=374>

Applications must be sent by email to:

Ana Elisa Rato

e-mail: aerato@uevora.pt

João Manuel Mota Barroso

e-mail: jmmb@uevora.pt

