

PUBLIC NOTICE FOR A RESEARCH SCHOLARSHIP

Reference i2a-CERNAS/Verão com Ciência/BII 4

IPC/ i2A is now accepting applications to award 1 Research Initiation Scholarship (BII) within the scope of the project, “Verão com Ciência” approved by FCT, on 28/6/2022, within the scope of special support for scientific and technological research activities in R&D units to enhance scientific and technological capacity and its relationship with higher education and society, at UID 681 - Centro de Estudos de Recursos Naturais Ambiente e Sociedade (CERNAS), financed by Fundação para a Ciência e a Tecnologia (FCT), under the following conditions:

1. The aim of the Research Initiation Scholarship is

Follow the work carried out under the project "GreenBotics: Intelligent Robotic System for Digital Agriculture" (PTDC/EEI-ROB/2459/2021), compare spatially and temporally maps of vegetation indices obtained using drones and multispectral cameras with maps obtained in the field using portable equipment. The fellowship will start with measurements of chlorophyll content and georeferencing the monitored plants in the field, with portable equipment. Subsequently, using multispectral orthophotos with centimeter resolution, for a more accurate georeferencing of the plants monitored in the field.

Generic Scientific Area: Agriculture and Environment

Specific Scientific Area: Agriculture

2. Requirements

The candidate:

- Must be enrolled in a professional higher technical course, a degree, an integrated master's or a master's degree, aiming at the beginning of its scientific training through the integration in R&D projects, in the scientific area of Agriculture and similar;

- May also be a graduate enrolled in a course not awarding an academic degree integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units.
- Cannot exceed, with the conclusion of the scholarship contract in question, an accumulated period of one year in this scholarship typology, followed or interpolated.
- Cannot have benefited from research grants directly or indirectly financed by the FCT, awarded under the terms of the Research Grant Holder Statute.

3. Work Plan

(i) field work, to measure chlorophyll content in the maize crop and georeference the plants monitored in the field, with portable equipment; (ii) use of multispectral orthophotos with centimeter resolution, for a more precise georeferencing of the plants monitored in the field; (iii) spatial and temporal analysis of vegetation index maps obtained using drones and multispectral cameras with maps prepared in the field using portable equipment.

4. Scholarship Length

The scholarship lasts for one month, starting on 31.08.2022 and ending on 30.09.2022.

5. Monthly Maintenance Allowance

486,12 Euros, according to the table of scholarship awarded by FCT to positions held in Portugal (www.fct.pt/apoios/bolsas/valores). The payment will be made by bank transfer.

6. Workplace

The work will be developed mainly at Escola Superior Agrária de Coimbra of the Polytechnic of Coimbra under the supervision of Carla Sofia Santos Ferreira.

7. Selection Criteria

- Academic evaluation (30%);

- Experience in field work (40%);
- Experience in laboratory work (5%);
- Teamwork experience (10%);
- Candidate's motivation to participate in the project (5%).

8. Jury of Selection

The jury responsible for the selection process is composed by 3 effective Professors and 1 substitute Professor.

Effectives:

Professor Carla Sofia Santos Ferreira

Professor Maria José Cunha

Professor Anne Karine Boulet

Substitute:

Professor António José Dinis Ferreira

9. Mandatory Documents

The applications must include the following documents:

- Academic qualifications certificate;
- Proof of enrollment in a degree-granting or non-degree course;
- Motivation letter addressed to the President of the jury;
- Curriculum vitae.

10. Deadline of Applications Submission

The application period will be of 5 working days, from 25/07/2022 until 29/07/2022.

Applications should be sent by email to bolsas.investig@ipc.pt, indicating the fellowship reference (mandatory): i2a-CERNAS/Verão com Ciência/BII 4.

11. Legislation and Applicable Regulation

The award of this scholarship is based in the Law 40/2004, of the 18th of August (Estatuto do Bolseiro de Investigação Científica), changed and republished by the Decree-Law 202/2012, of the 27th of August, updated by: Decree-Law 233/2012, Law 12/2013, Decree-Law 89/2013 and Decree-Law 123/2019; the Regulation of the Research Scholarships from the Fundação para a Ciência e a Tecnologia, I. P. (Regulation n.º 950/2019, of 16th december, changed by the Regulation n.º 643/2021, of 14th July) and the Regulation of the Research Scholarships from Coimbra Polytechnic, Order n.º 5963/2020, of 1st of June.

12. Information of Results

All candidates will be notified by e-mail.

According to the terms of the Administrative Procedure, the applicants will have 10 working days, after the release of the results, to pronounce themselves under the frame of the prior hearing.

For further information please contact

Professor Carla Sofia Santos Ferreira by the email cferreira@esac.pt , indicating the reference of fellowship (mandatory): i2a-CERNAS/Verão com Ciência/BII 4.

Coimbra, July 2022