

PUBLIC NOTICE FOR A RESEARCH SCHOLARSHIP

Referência i2A/PRR-AgriFlex-LicEnergy/2024

CONTEST CODE – PRBI/20/2024

IPC/ i2A is now accepting applications to award 1 **Research Scholarship** (BI) within the scope of the project “**AgriFlex - Flexibility of energy consumption in agriculture for the energy transition**”, reference **PRR-C05-i03-I-000214-LA11.2**, funded by IFAP through RRP Programme – Recovery and Resilience Plan, as follows:

Scientific area: Sustainable Energy Systems.

Requirements:

- A. Holders of a Bachelor’s degree in the field of Environmental Engineering or other related areas;
- B. If the candidate holds a higher education degree obtained abroad, he/she must have the respective recognition of the degree, if applicable;
- C. Enrolment in a master's in the area of Sustainable Energy Systems or similar or in a non-academic degree course;
- D. Knowledge of energy systems and markets, renewable energy production for self-consumption in an agricultural context, mastery of energy auditing techniques;
- E. Oral and written fluency in Portuguese and English.

Work Plan achievements:

The energy transition implies the large-scale deployment of decentralized renewable production, thus requiring greater flexibility in the electricity grid. Until now, resources on the production side have been considered almost exclusively to provide this flexibility to the electrical system, but sources of flexibility on the consumption side are increasingly being sought. In Portugal, the offer of flexibility services was only tested in energy-intensive consumers. Promoting flexibility in the agricultural sector requires overcoming several barriers: lack of information; reduced training of sector agents on energy efficiency and flexibility markets; technologies that respond to the specificities of the activity; and regulatory issues. This work plan intends to contribute to a better management of the electrical network through the offer of flexibility services by the agricultural sector and includes as main tasks:

1. Characterisation of the agricultural production activities of the project's target sectors, as well as establishing the electricity consumption profiles of the various partners;
2. Updating the review of the national and European legal and regulatory framework for the agrivoltaic context and the provision of flexibility services, as well as the scientific literature and international best practices;
3. Monitoring the production of renewable energy and energy consumption in the project's pilots, with quantification of the project indicators;
4. Development of a methodology for quantifying energy flexibility and its application to agricultural activity in various case studies;
5. Economic, organisational and social assessment of the adoption of agrivoltaic solutions and participation in flexibility markets by the agricultural sector, deriving regulatory proposals and recommendations;
6. Making oral presentations, writing technical report(s) and scientific article(s) for submission to peer-reviewed international journal(s);
7. Collaborating in project management activities, as well as organising training, communication and dissemination activities.

Scholarship Length:

The scholarship, on an exclusive basis, has a duration of 12 months, possibly renewable until the end date of the project, within the limits established in the Regulation of the Fellow of the PIC, approved by Order no.5963/2020, published in the 2nd series of the Diário da República of 1 June, and Regulation no. 950/2019 of 16 December (Regulation of Research Grants of the Foundation for Science and Technology), scheduled to start on October 2024.

Monthly Maintenance Allowance:

990,98 euros, according to the table of scholarships amounts awarded by FCT to positions held in Portugal (www.fct.pt/apoios/bolsas/valores). The payment will be made by bank transfer monthly, to the account to be designated by the Fellow. To this amount is added the voluntary social insurance corresponding to the first tier, and a workplace accident insurance contract.

Workplace:

The work will be carried out at the Agriculture School of the Polytechnic Institute of Coimbra, under the scientific guidance of Prof. Marta Alexandra dos Reis Lopes.

Selection Criteria:

Applications will be assessed on a scale of 0 to 20 using the following weightings:

- a) Curriculum evaluation (50%), with a value of 50% for academic qualifications and 50% for the degree of fulfilment of the requirements relating to competences;
- b) Interview (50%), to be carried out only with the candidates having a curriculum evaluation with at least 12 out of 20 and placed in the first three positions.

The scholarship cannot be awarded to candidates who obtain an overall evaluation of less than 14 points.

Jury of Selection:

President: Prof. Marta Alexandra dos Reis Lopes, PhD

Members: Prof. Elisabete Dinora Caldas de Freitas, PhD

Prof. Daniela Valente Simões dos Santos, PhD

Substitutes: Prof. Maria Isabel Ribeiro Dinis, PhD

Prof. Cristina Isabel Cabral Galhano, PhD

Mandatory documents:

- a) Application form available on the internet page for this competition at https://www.ipc.pt/bupc/concursos/form/concursos_bolseiros
- b) Motivation letter, in which the candidate must explain his/her motivation to carry out this multidisciplinary work plan, as well as mention if he/she is available to start the scholarship on the scheduled date;
- c) Document(s) proving that the candidate holds the academic degree and/or diploma(s) required in the competition, preferably indicating the final average and the marks obtained per curricular unit. Applicants with foreign qualifications must provide proof of their foreign degree and diploma in accordance with Decree-Law no. 66/2018, of 16 August;
- d) Document proving enrolment and registration in the master's or non-degree course, which may be made at a later date than the application, provided that it is prior to the contractualization of the scholarship;
- e) Updated *Curriculum Vitae* of the candidate, with a description of the qualifications;
- f) Supporting document(s) for other assessment parameter(s) indicated in the application notice;

- g) Declaration, under oath, regarding the scholarship(s) of the same type that the candidate have carried out and its duration;
- h) Other certifications and/or other documents considered relevant by the candidate.

Deadline of Application Submission:

The application period will be of 10 working days, starting on **16/08/2024** and ending on **29/08/2024**.

Candidates must access and register on the website

https://www.ipc.pt/bupc/concursos/form/concursos_bolseiros to submit the application, selecting the procedure for which they intend to apply.

Applications must be delivered exclusively in digital format, in portable document format (pdf), except for documents whose delivery is scheduled in other digital formats.

Application instructions are completed by filling in the sections available at the aforementioned email address.

When formalizing the application, if it contains a classified document that reveals commercial or industrial secrets, or secrets relating to literary, artistic or scientific property, the candidate must expressly indicate such reservation, under penalty of the work in question being freely accessed by any one of the other candidates, in consultation with the process.

When submitting the application, the candidate must provide only the necessary data, according to this notice, and must hide personal data present in the documentation, as these data may be freely accessed by other candidates during the process consultation.

Legislation and applicable Regulation:

The award of this scholarship is based in the Law 40/2004, of the 18th of August (Statute of the Scientific Research Fellow), 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. and the Regulation of the Research Scholarships from Coimbra Polytechnic no. 12709/2016, published on the DR, 2nd serie, of 21/10/2016.

The model of the scholarship contract, as well as that of the final reports to be prepared by the scholarship holder and the scientific supervisor, are those set out in the annexes to the above-mentioned Statute for Scientific Research Scholarship Holders.

Information of Results:

The results of the evaluation will be published within 90 working days from the deadline for submission of applications, by sending a communication to the candidates, via email. After the results have been published, candidates will be notified to, if they wish, give their opinion in a prior hearing within a maximum of 10 working days after that date. After this deadline, the selected candidates will have to declare their acceptance in writing. Unless a justifiable reason is provided, failure to make the declaration within the deadline will be considered as a waiver of the scholarship. In case of resignation or withdrawal of the selected candidate, the immediately best ranked candidate will be notified.

For further information please contact:

Marta Lopes (mlopes@esac.pt)

Coimbra, 12th August 2024