

PUBLIC NOTICE FOR A RESEARCH SCHOLARSHIP

Referência i2A/PRR-AgriFlex-Lic1/2023

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 fields of Agriculture, Environmental Engineering, Electrical 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 or advanced studies in the area of Sustainable Energy Systems or similar or in a non-academic degree course;
- D. Knowledge of energy systems and markets, in particular renewable production in the context of agriculture and self-consumption, and energy audit techniques;
- E. Knowledge of sustainable agriculture production processes;
- F. 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. Characterization of agricultural production activities in the target sectors of the project, as well as establishment of the electricity consumption profiles of the partners involved;
2. Support for the development and installation of agrivoltaic solutions in project pilots, as well as regular monitoring of renewable energy production and energy consumption, with quantification of project execution indicators;
3. Review of the national and European legal and regulatory framework for the agrivoltaic context and provision of flexibility services, as well as carrying out a scientific review and the best international practices in this matter;
4. Assessment of the availability of the agricultural sector to adopt energy efficiency measures, agrivoltaic solutions and participation in flexibility markets, considering productive, technical, organizational and behavioural dimensions, using semi-structured interviews;

5. Economic and social assessment of the potential for adoption of agrivoltaic solutions and participation in flexibility markets by the national agricultural sector, deriving regulatory proposals and recommendations;
6. Collaboration in project management activities, as well as in the organization of training activities (eg training actions, open days, seminars, good practice manuals, videos) and communication and dissemination activities (eg news, communications and publications scientific).

Scholarship Length:

The scholarship, on an exclusive basis, has a duration of 12 months, possibly renewable for identical periods, when permitted by regulation, 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 01/09/2023.

Monthly Maintenance Allowance:

930,98 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 placed at least in the first three positions, according to the order resulting from the previous criterion (the number of candidates to be interviewed may exceed three if the selection board decides).

The scholarship cannot be awarded to candidates who obtain an overall evaluation of less than 10 points.

Jury of Selection:

President: Prof. Doutora Marta Alexandra dos Reis Lopes

Members: Prof. Doutora Daniela Valente Simões dos Santos

Prof. Doutora Cristina Isabel Cabral Galhano

Substitutes: Prof. Doutora Maria Isabel Ribeiro Dinis

Prof. Doutora Elisabete Dinora Caldas de Freitas

Mandatory documents:

- a) 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 schedule date;

- b) Document(s) proving that the candidate hold 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;
- c) Document proving enrolment and registration in the master's or doctoral degree 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;
- d) Updated *Curriculum Vitae* of the candidate, with a description of the qualifications;
- e) Supporting document(s) for other assessment parameter(s) indicated in the application notice;
- f) Declaration, under oath, regarding the scholarship(s) of the same type that the candidate have carried out and its duration;
- g) 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 02/08/2023 and ending on 16/08/2023. Applications should be sent by e-mail to the following e-mail address: bolsas.investig@ipc.pt with the mention in the subject line: **i2A/PRR-AgriFlex-Lic1/2023**.

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 Alexandra dos Reis Lopes: mlopes@esac.pt

Coimbra, 13th July 2023