

PUBLIC NOTICE FOR A RESEARCH SCHOLARSHIP

Reference i2A-PhD-AGRICITY-POCI-070175

IPC/ i2A is now accepting applications to award 1 **Research Scholarship** (BI_PD) within the scope of the project "AGRICITY", reference **POCI-01-0247-FEDER-070175**, funded by FEDER through COMPETE-2020 / Portugal 2020, as follows:

1-The aim of the Research Scholarship is to follow the following Project Tasks:

- 1) Identify the critical environmental parameters to be monitored;
- 2) Set the laboratory protocol to detect and analyse the environmental parameter (land, water, air);
- 3) Set a lysimeter experiment to validate the performance of sensors and platforms;
- 4) Collaboration in the specification and development of sensors per parameter to be monitored.
- 5) Development of dissemination and communication materials, namely in terms of publications in international peer-reviewed scientific journals.

Generic Scientific Area: Environmental Sciences

Specific Scientific Area: Earth and Environmental Sciences

2-Requirements:

- Hold a PhD in Environmental Sciences;
- Have proven experience through bachelor's and master's degrees in the fields of Agricultural Sciences, or related Sciences;
- The PhD degree must have been obtained less than 3 years ago (for legal reasons).

Preference will be given to candidates with greater experience in research in the areas of environmental sciences and agriculture in the specified selection criteria.

3-Work Plan:

The post-doctorate grant holder will develop (i) Specification of critical environmental parameters to be monitored relevant to the Agricity project, divided in meteorological, hydrographic and soil quality parameters (heavy metals) (ii) Specification of the laboratory protocol to allow the detection of parameter in various mediums (soil, water, air) (iii) Specification and selection of sensors per parameter to be monitored. (iv) evaluation of sensors' performance, to be carried out at two scales: the scale of the lysimeters, in controlled situations, and the scale of the experimental fields in real conditions. Laboratory analysis of soil characteristics, namely heavy metals.



12 months, renewable until the end of the project, on an exclusive basis, in accordance with the Regulation of Research Grants of the Fundação para a Ciência e Tecnologia, I.P. The Scholarship is scheduled to begin on September 2021, and end on August 2022.

5-Monthly Maintenance Allowance:

1.646,00 euros, according to the table of scholarship amounts awarded by FCT to positions held in Portugal (www.fct.pt/apoios/bolsas/valores). The payment will be made by bank transfer.

To this amount is added the voluntary social insurance corresponding to the first tier, and a workplace accident insurance contract.

6-Workplace:

The work will be developed mainly at Escola Agrária of the Coimbra Polytechnic, with sporadic trips out related to the project research development or results reporting, under the supervision of António Dinis Ferreira.

7-Selection Criteria:

The selection will be made based on the curriculum evaluation and the merit of the candidates assessed, considering the academic training, the *curriculum* profile, the experience of scientific research and number of scientific publications. The knowledge of English language as well as, driving autonomy will be considered. In case of a tie, the candidate with more publications in indexed journals will be selected. An interview will be held if the jury considers it necessary.

$$\text{Final Grade}^1 = 45 (A) + 20 (L) + 25 (R) + 5 (E) + 5 (D)$$

¹ - Academic education [A], Lab. experience [L],
Research experience [R], English proficiency[E],
Driving licence [D].

F = 1 if the candidate holds a PhD in the scientific area "Environmental Sciences"

F = 0.5 if the candidate holds a PhD in the scientific areas "Agronomic Science"

F = 0.1 if holds a PhD in Related Sciences

L = 1 if holds a Master's or Bachelor's Degree in the area of "Agronomic Sciences"

L = 0.5 if holds a master's or Bachelor's degree in the area of "Biological Sciences"

L = 0.1 if holds a master's or Bachelor's degree in related sciences

I = 1 if the candidate is the author or co-author of 15 or more articles published at international peer-reviewed journals

I = 0.7 if the candidate is author or co-author of 5 to 14 articles published at international peer-reviewed journals

I = 0.5 if the candidate participated in a research project as a scholarship holder for more than 36 months

I = 0.3 if if the candidate participated in a research project as a scholarship holder between 6 and 35 months

I = 0.1 if if the candidate participated in a research project as a scholarship holder between 1 and 6 months

E = 1 if the candidate has a level A of the Common European Framework of Reference with an IELTS or TOEFL diploma

E = 0.5 if the candidate has a level B of the Common European Framework of Reference with a 1st Certificate diploma or equivalent

E = 0.3 if the candidate has a level C of the Common European Framework of Reference without diploma

C = 1 with driving license

C = 0 without driving license

8-Jury of Selection:

The jury responsible for the selection process is composed by PhD Professors 3 effectives and 2 substitutes

Effectives:

- Professor(a) Doutor(a) António Dinis Ferreira;
- Professor(a) Doutor(a) Kiril Bahcevandziev;
- Professor(a) Doutor(a) Maria Manuel Balseiro Vidal

Substitutes:

- Professor(a) Justina Franco;
- Professor(a) Doutor(a) Fátima Oliveira.

9-Mandatory Documents:

The applications must include the following documents:

- Motivation letter addressed to the jury President;
- The *curriculum vitae* (CV) dated and signed;
- Copy of all certificates and diplomas mentioned in the CV;

- First page of every publication mentioned on the CV.

None of the previously referred documents can be submitted after the deadline presented in this scholarship offer.

10-Deadline of Applications Submission:

The application period will be of 10 working days, starting on 03-08-2021 and ending on 16-08-2021.

Applications should be sent by email to bolsas.investig@ipc.pt, indicating the fellowship reference (mandatory): **i2A-PhD-AGRICITY-POCI-070175**.

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. and the Regulation of the Research Scholarships from Coimbra Polytechnic Order nº 5963/2020

12-Information of Results:

The final results will be published in alphabetic order linked with the final grade and publicly displayed at Escola Agrária de Coimbra in the showcase of Human Resources, in Block B). All candidates will be previously 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:

António Dinis Ferreira (aferreira@esac.pt), indicating the reference of fellowship (mandatory): **i2A-PhD-AGRICITY-POCI-070175**.

Coimbra, 16th June 2021