

**PUBLIC NOTICE FOR A RESEARCH SCHOLARSHIP FOR MASTER DEGREE**  
**Reference PRBI/35/2025**

A call for applications is open for a Research Scholarship (BI) within the scope of the project “NUTREC4AGRI - Turning waste into a Resource: Development of green fertilizers through nutrient’s recovery from agri-food byproducts and livestock effluents, operation code COMPETE2030-FEDER-00726000 (No. 16109), at the Polytechnic Institute of Coimbra, co-funded by COMPETE 2030, Portugal 2030, and the European Union.

The purpose of the research scholarship will be to implement and develop the following activities:

1. Development and testing of an efficient prototype combining the electrodialytic process, electro-oxidation, and gas-permeable membranes to extract nutrients and organic compounds.
2. Development of green fertilizers from nutrient- and organic-compound-enriched solutions obtained from agri-food by-products and livestock effluents.
3. Integrated assessment of the proposed solutions for the valorization of agri-food by-products and livestock effluents as green fertilizers.
4. Dissemination, promotion, and valorization of results.
5. Project management and monitoring.

**Generic scientific area:** Environmental Engineering, Chemical Engineering or similar.

**Specific scientific area:** Environmental Engineering, Chemical Engineering or similar.

**Requirements:**

- Master's degree in Environmental Engineering, Chemical Engineering or related areas.
- If the candidate holds a higher education degree obtained abroad, he/she must have the respective degree recognition, if applicable.
- Enrollment in a PhD program or a non-degree course.
- Oral fluency in Portuguese.
- With experience in laboratory work, teamwork or valorization processes of wastes.

**Work plan:**

The work plan will be developed at the Escola Superior Agrária de Coimbra of the Instituto Politécnico de Coimbra and include the following tasks:

1. Research on the state of the art regarding electrodialytic processes, electro-oxidation, and gas-permeable membranes for waste valorization;
2. Laboratory research for the development and optimization of the prototype for the extraction of nutrients and organic compounds;
3. Conducting laboratory analyses to characterize the solutions obtained;

4. Carrying out life-cycle and cost analyses;
5. Supporting the drafting of technical activity reports and scientific publications;
6. Other development tasks identified as necessary within the scope of the project.

### **Scholarship length:**

The grant will last for six (6) months, and may eventually be renewed for an identical period, under an exclusive dedication regime. The fellowship holder will be granted the status of IPC Research Fellow, in accordance with the Research Fellowship Statute and the Regulations for Research Fellowships of the Foundation for Science and Technology (FCT, I.P.), both in their current versions. The fellowship is expected to begin on January 2, 2026.

### **Monthly Maintenance Allowance:**

€1,309.64 according to the table of scholarship amounts awarded by FCT to positions held in Portugal ([www.fct.pt/apoios/bolsas/valores](http://www.fct.pt/apoios/bolsas/valores)), with payment made monthly by bank transfer.

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

### **Workplace:**

The work will be developed at the “Escola Superior Agrária de Coimbra” of the “Instituto Politécnico de Coimbra”, under the scientific supervision of the Researcher PhD Verónica Oliveira.

### **Selection Criteria:**

The criteria for evaluating applications are as follows:

- Curriculum evaluation (45%);
- Oral fluency in Portuguese (10%);
- Experience in laboratory work (10%);
- Teamwork experience (5%);
- Experience in processes used for wastes valorization (10%);
- Experience in preparing reports and scientific articles (5%);
- Motivation of the candidate to participate in the project (15%).

There may be an interview if it is necessary to break a tie between candidates.

The selection panel reserves the right not to select any candidate if none is deemed to have the appropriate profile for the duties to be performed.

### **Jury Composition:**

The jury responsible for the selection process will be made up of Researcher PhD Verónica Oliveira (President), Researcher PhD Ana Sofia Fajardo, Professor PhD Carla Rodrigues (Effective Members) and Professor PhD Isabel Dinis and Professor PhD João Malça (Substitute Members).

**Documents to be presented:**

The applications must include the following documents:

- Application form available on the internet page for this competition at [https://www.ipc.pt/bupc/concursos/form/concursos\\_bolseiros](https://www.ipc.pt/bupc/concursos/form/concursos_bolseiros);
- B2 or C1 level certificate, based on the Common European Framework of Reference for Languages (not applicable to native speakers from Portuguese-speaking countries);
- Copy of qualification certificates;
- Applicants with foreign qualifications must provide proof of their foreign academic degree and diploma in accordance with Decree-Law no. 66/2018 of 16 August;
- Proof (or declaration under commitment of honor) of enrollment in the PhD program or a non-degree course;
- Motivation letter addressed to the President of the jury;
- Dated and signed curriculum vitae;
- Other documents that the candidate considers relevant to submit with the application.
- Identification, residence, identification document number, and tax identification number;
- Declaration under commitment of honour, in which, if enrolled in an ongoing not conferring academic degree, the applicant does not exceed, with the conclusion of the scholarship contract in question, including possible renewals, an accumulated period of one year in that type of scholarship, followed or interpolated, in accordance with the Research Fellowship Regulations of the Polytechnic Institute of Coimbra, approved by Order No. 5963/2020, published in the Official Gazette (DR), 2nd series, No. 106 of June 1, 2020, and rectified by Rectification Statement No. 742/2020, published in the Official Gazette (DR), 2nd series, No. 212 of October 30, 2020.

**Deadline for applications submission:**

It will last 10 working days, between 21/11/2025 and 05/12/2025.

Candidates must access and register on the website [https://www.ipc.pt/bupc/concursos/form/concursos\\_bolseiros](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.

**Applicable legislation and regulations:**

The award of the fellowship is governed by the following legal documents:

- Law No. 40/2004, of August 18, in its current version (Statute of the Scientific Research Fellow);
- Order No. 5963/2020, of June 1, in its current version (Research Fellowship Regulations of the Polytechnic Institute of Coimbra).

The fellowship contract template, as well as the templates for the final reports to be prepared by the fellow and the scientific supervisor, are those included in the annexes of the aforementioned Statute of the Scientific Research Fellow.

**Method of notifying results:**

The evaluation results will be announced within 90 working days from the application deadline, by email to the candidates. After the results are published, candidates will be notified and may, if they wish, submit comments in a prior-hearing phase within a maximum of 10 working days from that date. Once this period has ended, the selected candidates must declare their acceptance in writing and indicate the actual start date of the fellowship. Unless duly justified, failure to submit the declaration within the specified period constitutes a withdrawal from the fellowship. In the event of withdrawal or resignation by the selected candidate, the next highest-ranked candidate will be notified.

For further information contact Researcher Verónica Oliveira, via email: [veronica.oliveira@ipc.pt](mailto:veronica.oliveira@ipc.pt)

Coimbra, November 2025