



ANNOUNCEMENT OF AN INTERNATIONAL CALL FOR THE SELECTION OF A RESEARCH TECHNICIAN

Internal code: Technician/EIC/i3S/1512/2025

A call is opened for the position of a Research Technician, for an unfixed-term work contract, to carry out technical duties within the project **“Blood2Power - Blood as energy source to power smart cardiac devices”** with reference 101115525, funded by the European Innovation Council (EIC) under the topic HORIZON-EIC-2022-PATHFINDERCHALLENGES-01-04.

Scientific Area: Bioengineering, Biomedical Engineering, Physical Engineering, or related field.

1. Project summary and work plan

The BLOOD2POWER project aims to develop a new way to harvest energy from the body, and using it to create the next generation of cardiac medical devices. To support the activities of this project, we are looking to appoint a researcher with MSc degree.

The candidate's work plan will focus on R&D of energy harvesting systems that exploit different energy sources from the human body to supply intelligent cardiac electronic devices for enabling the Internet of Medical Things (IoMTs). This includes tasks of development of energy harvesting systems and *in vitro* and *in vivo* characterization regarding the generated electrical outputs and mechanical/biological properties.

What do we offer?

- Opportunity to join a research group that works in all stages of biomaterials development, from bench to bedside, which will allow to gain both scientific and technology transfer skills.
- Obtain insights into the development of biocompatible energy harvesting systems and their *in vitro/vivo* characterization.
- Possibility to embrace an international/multidisciplinary European consortium that joins i3S, Faculdade de Ciências da Universidade do Porto, University of Navarra (Spain), and Medical University of Vienna (Austria), gathering knowledge in physical engineering, bioengineering, nanotechnology, electronics, and medicine.

2. Jury

Chairman: Dr Andreia T. Pereira; Other Members: Dr Inês Gonçalves, Dr. Ana Mendes. Substitutes: Dr. Daniela Sousa.

3. Workplace

Institute for Research and Innovation in Health (i3S) - Rua de Alfredo Allen, 208, Porto, research group [Advanced Graphene Biomaterials Group](#). Short-term visits to the institutes of consortium partners, if needed.

4. Professional category and monthly remuneration

Research Technician, €1565,37, subject to taxes and other mandatory deductions.

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Blood2Power

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5. Obligatory requirements for admission

- a) MSc degree in Bioengineering, Biomedical Engineering, Physical engineering, or a related field completed by the contract's signing date (the weighted average of the BSc and MSc classifications must be higher than 15 out of 20, calculated according to the criterion used by the FCT, using the following formula: $((180 \times \text{BSc final grade} + 120 \times \text{MSc final grade}) / 300)$);
- b) Experience in the development and characterization of biomaterials;
- c) Proficiency in the English language (both written and spoken);
- d) One Reference letter and Two Reference contacts.

Preferential:

- a) Experience in energy harvesting;
- b) Programming and data processing;
- c) Experience with cell culture or hemocompatibility tests;
- d) Experience in mechanical testing of biomaterials;
- e) Highly motivated candidates with good teamwork and interpersonal skills;
- f) Candidates who demonstrate an interest in pursuing a PhD;
- g) Immediate availability to start the contract.

6. Evaluation of the applications and publication of the results

Weight of the different curricular valuation criteria

- a) Detailed CV, including publications, oral/poster presentations in research fields relevant to the project, prizes, science outreach activities, economic valorisation activities, organization of scientific events, and advanced training (45%);
- b) Research experience with relevance for the project work plan according to points previously outlined in the Admission Requirements (35%);
- c) Motivation letter in English (10%);
- d) Interview - *facultative* (10%).

If needed, the evaluation panel may invite the 4 (four) most highly ranked candidates for an interview. The final classification system for candidates is expressed on a scale from 0 to 100. Candidates who are not interviewed will receive a maximum score of 90%.

Candidates are excluded from admission to this call if they do not fill out their application correctly or do not meet the obligatory admission requirements. If in doubt, the jury may ask any candidate for additional documents in support of their statements.

False statements made by candidates will be sanctioned in accordance with the law.

The jury will take minutes of their meetings, which may be consulted by candidates upon request.



The jury deliberates by means of a justified vote according to the evaluation criteria, with no abstentions allowed, and draws up a list of excluded and admitted candidates, ranked by the respective classification after the curricular evaluation. Candidates will be notified of the results by email.

After publication of the ranking list, if they wish to do so, the candidates have 10 working days to submit comments.

In the 90 days following the deadline for submission of applications, the institute Director, who is also responsible for the final decision of hiring, will ratify the decision of the jury.

This call is intended exclusively to fill the indicated position on offer and may be canceled before the final ranking list of candidates is ratified by the Director. Accordingly, the position will no longer be available.

7. Submission of applications

Applications must include all the documents proving that they fulfill the admission requirements, namely:

- a) Copy of certificate or diploma;
- b) Detailed Curriculum Vitae;
- c) Motivation letter (in English);
- d) One Reference letter and Two Reference contacts;
- e) Other documentation relevant to the evaluation of qualifications in a related scientific area.

The submission of applications is digital, in PDF format, from December 15th, 2025, to January 4th, 2026, at the following link:

<https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/a423b5c898cadd40f6144ae6a36a6a55>

8. Start and duration of the contract

The anticipated start date of the contract is 01/02/2026 and is subject to budget availability. The expected duration of the contract will be 8 months.

9. Non-discrimination and equal access policy

i3S actively promotes a policy of non-discrimination and equal access. No applicant shall be privileged, benefited, prejudiced, or deprived of any right or exempted from any duty on the basis of ancestry, age, gender, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs, or trade union membership.

Within the framework of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers, i3S adopts the Open, Transparent and Merit-based (OTM-R) principles for the recruitment of researchers, with the aim of

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conducting fair and transparent recruitment processes, bringing equal opportunities to all candidates.

10. Applicants with disabilities

Under the terms of Decree-Law 29/2001, of February 3, the candidate with a disability is given preference in equal ranking, which takes precedence over any other legal preference. Candidates must declare under oath their degree of disability, the type of disability and the means of communication/expression to be used in the selection process, under the terms of the aforementioned decree.

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