



NOTICE OF OPENING OF AN INTERNATIONAL CALL FOR THE SELECTION OF A PhD HOLDER RESEARCHER

Internal code: Researcher/Horizon_REBORN/i3S/0905/2025

A call is opened for the position of a PhD holder, for an unfixed term work contract to carry out research duties within the project “Remodelling Of The Infarcted Heart: Piezoelectric Multifunctional Patch Enabling The Sequential Release Of Therapeutic Factors”, GA 101091852, funded by European Commission through the topic HORIZON-CL4-2022-RESILIENCE-01-13.

Scientific Area: Cardiac regenerative medicine

1. Project summary and work plan

Myocardial infarction (MI) or heart attack is caused by the restricted blood and oxygen supply to parts of the heart. Currently there are no treatments for cardiac tissue remodelling to address the clinical risk of heart failure. The EU-funded REBORN project proposes to develop a cardiac patch that can trigger local heart tissue remodelling following MI. The REBORN electromechanical device will support heart function while delivering anti-inflammatory, anti-fibrotic and proliferative factors to stimulate cardiomyocyte proliferation. It will consist of innovative materials and the idea is to employ 3D bioprinting techniques for its production.

The selected researcher will carry out activities related to the in vitro and in vivo testing of the biocompatibility and efficacy of developed nanocarriers and patch prototypes.

2. Applicable Portuguese legislation

Portuguese Labor Code, in its current wording.

3. Jury

Chair: Diana S Nascimento; Other Members: Perpétua Pinto-do-Ó, Susana G Santos; Substitute: Carla Cunha.

4. Workplace

i3S - Rua de Alfredo Allen, 208 Porto, research group research group Stem Cells in Regenerative Biology and Repair.

5. Professional category and monthly remuneration

Junior Researcher

€ 2.351,53, corresponding to index 33 of the Tabela Remuneratória Única, whose application is intended for PhD holders with reduced post-doctoral experience or without a post-doctoral scientific curriculum.



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6. Obligatory requirements for admission

- a) PhD degree in Biomedical Sciences or a related area;
- b) Course in laboratory animal science (functions A and D), including training sessions for researchers working with rodents.
- c) Extensive hands-on expertise in:
 - a. high throughput in vitro tests of anti-inflammatory and anti-fibrotic activity;
 - b. animal experimentation, preferably in rodent models of cardiac disease and echocardiography;
 - c. ELISA and immunofluorescence;
- d) Adequate publication record for the career stage.
- e) Motivation Letter in English supporting and explaining the hand-on experience detailed in c).
- f) Fluency in written and spoken English;
- g) Good teamwork and interpersonal skills;
- h) Immediate availability to start the position to be indicated in the motivation letter.

7. Evaluation of the applications and publication of the results

The evaluation of the scientific and curricular background of the candidates should focus on the activity of the last five years that the candidate considers most relevant. The five-year period may be extended by the jury, at the candidate's request, when justified by suspension of scientific activity for socially protected reasons, namely for reasons of parental leave, prolonged serious illness, and other situations of unavailability for work that are legally protected.

Weight of the different curricular valuation criteria:

- a) Detailed Curricula and experience as defined in point 6, c) (75%);
- b) Motivation Letter in English (15 %)
- c) Interview - *optional* (10%)

If the jury decides to obtain further clarifications and additional information about the curricular elements presented, the 3 best candidates classified on the basis of the curriculum may be called for an interview.

Candidates who submit their application incorrectly or fail to meet the required qualifications for this competition will be excluded from admission.

The jury reserves the right to request any candidate, in case of doubt, to provide supporting documents for their statements.

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

The jury will draw up minutes of its meetings, which can be consulted at the candidate's request within 10 working days after the selection results are released.



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The jury deliberates by means of a reasoned vote according to the evaluation criteria, with no abstentions allowed, and draws up a list of excluded and admitted candidates, ordered by respective classification.

All candidates are notified of the selection results by email. After notification, candidates have 10 working days to comment.

In the 90 days following the deadline for submission of applications, the jury's final decision is communicated to the candidates. Subsequently 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.

8. 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) Other documentation relevant for the evaluation of qualifications in a related scientific area.

The submission of applications is digital, in pdf format, from 09/05/2025 to 22/05/2025, in the following link:

<https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/994272819fb18ca998fb60aa1d281>

9. Start and duration of the contract

The anticipated start date of the contract is 15/06/2025 and is subject to budget availability. The maximum duration of the contract will be 18months.

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



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11. 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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