

## INTERNAL / EXTERNAL CALL

### The Institute

The **Research Institute Foundation of the Hospital de la Santa Creu i Sant Pau** is a scientific foundation whose mission is to improve public health and quality of life through the production and dissemination of scientific knowledge, international training of researchers, and the promotion of innovation and health through the incorporation of medical advances into clinical practice and health policies. Created in 1992, it became affiliated with the Autonomous University of Barcelona (UAB) in 2003 and has been part of the CERCA Programme of the Government of Catalonia since 2011.

For the Foundation, it is a priority to ensure that the recruitment of the most suitable candidate to fill a job is done through an open, transparent and merit-based (OTM-R) selection process. Following these guidelines will promote the mobility of staff, the exchange of knowledge and, ultimately, the increase in the quality of teaching and research. Faithful to the commitment to the human resources strategy of the European Union, our institution's personnel selection and recruitment procedures are governed by a set of basic principles that guarantee everyone equal access to employment. Therefore, the constitutional principles of equality, merit and capacity are followed, respecting in any case the national and international regulations in force in this area, specifically the European Charter for Researchers and the Code of Conduct for the recruitment of researchers (C&C). The principles of C&C are applicable for the recruitment of any staff of the institution, regardless of their professional category. For this reason, our Foundation has obtained the recognition of "Excellence in R&D in Research" awarded to the IIB Sant Pau, since 2015.



The **Santa Creu i Sant Pau Hospital Research Institute Foundation** needs to incorporate at the Clinical and Translational Cardiology Group:

<b>1 - T4A- Junior Senior Technician</b>
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## **About the Unit / Group:**

The Clinical and Translational Cardiology Group is a multidisciplinary research team focused on cardiovascular research. In 2023, the group produced 112 scientific publications with a total impact factor of 1161 points. The group's research lines include basic and clinical electrophysiology, heart failure and transplantation, ischemic heart disease, valvular heart disease, cardiac imaging, cardiac modeling, 3D printing, and bioengineering. The group has access to all research facilities at IR Sant Pau, including the animal experimentation facility equipped with five operating rooms with X-ray systems, anesthesia units, electrophysiological mapping systems, and ablation systems identical to those used in the clinic.

Dr. José M. Guerra-Ramos is the head of the Clinical and Translational Cardiology Group and the leader of CIBERCV (a cardiovascular research network funded by the Spanish government). He is a specialist in Cardiology and Arrhythmology and performs his clinical work at the Arrhythmia Unit of the Cardiology Department. He is also an Associate Professor at the Autonomous University of Barcelona and is recognized for his numerous presentations at national and international congresses and his extensive list of research publications.

## **About the Project**

This project is funded by a grant from the La Marató de TV3 Foundation and focuses on a new technique for the treatment of arrhythmias: pulsed field ablation using electroporation. The main hypothesis is that it is possible to create controlled areas of reversible and irreversible electroporation in cardiac tissue. In addition, the project aims to describe new methods to precisely detect the boundary between reversibly and irreversibly electroporated areas, based on the measurement of local electrograms and electrical impedance. This precise delimitation will optimize pulsed field ablation, maximizing its efficacy and improving its safety.

The project is being developed in collaboration between the Clinical and Translational Cardiology Research Group of IR Sant Pau, led by Dr. Guerra-Ramos, and the Biomedical Electronics Research Group (BERG) of Pompeu Fabra University, led by Professor Antoni Ivorra.

## Essential requirements

- Minimum qualification required: Higher Education (University Degree or University Degree) or equivalent.
- Oral and written knowledge of the two official languages of Catalonia or, failing this, the selected candidate must demonstrate, or undertake to acquire, within a period not exceeding one year, a correct knowledge of two official languages in Catalonia
- Advanced level of English.
- Advanced level of office tools (Excel, Word, Power Point, etc.).

## Skills will be valued

- Degree in Physics, Electronic Engineering, Biomedical Engineering, or similar.
- Experience working with in silico, in vitro, or in vivo models.
- Experience with programming languages (Python, Matlab, R).
- Experience in developing computer models to simulate electroporation treatments.

## Functions

- Collaborative research between the Clinical and Translational Cardiology Group of IR Sant Pau and the Biomedical Electronics Research Group (BERG) of Pompeu Fabra University.
- Literature review and scientific updates in the research field.
- Conducting in silico, in vitro, and in vivo experiments.
- Data analysis from experiments (imaging, electrical signals, etc.).
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- Drafting experimental protocols, participating in the writing of scientific articles, and preparing presentations.

## Offered

- Permanent contract linked to the project: Electroporation in cardiac tissue: from safe and efficient cardiac arrhythmias ablation to new therapeutic indications. "With the support of the La Marató de TV3 Foundation", grant number 202320-30.



- Annual working hours: 1,627.50 hours (37.5 hours per week).
- Salary according to agreement: €29,041.75 gross per year.
- Research Group: Clinical and Translational Cardiology.

## Documentation and deadline for submission

Interested parties should preferably deliver the documentation (1) in PDF, by e-mail to the Management of the Santa Creu i Sant Pau Hospital Research Institute Foundation, address [ir\\_seleccio@santpau.cat](mailto:ir_seleccio@santpau.cat), indicating the reference **2025/094**:

**(1) Application letter and updated Curriculum Vitae  
and signed Data Processing Authorization\*\***

At the request of the Santa Creu i Sant Pau Hospital Research Institute Foundation, the candidates must present the documentation accrediting the merits mentioned in the curriculum vitae.

Applications will be resolved within a maximum period of one month from the end of the deadline for submission of documentation. At the end of this period, without having been notified of an express resolution, the interested parties will be entitled to understand that their applications have been rejected.

Santa Creu i Sant Pau Hospital Research Institute Foundation may declare this call for applications closed if, according to its criteria, the candidates does not meet the conditions that the Institution considers necessary to fill the position.

The interpretation of the requirements and their enforceability to the candidates will be exclusive to the Santa Creu i Sant Pau Hospital Research Institute Foundation.

**\*\*It is essential to attach the duly signed data processing authorization (document attached at the end of the call)\*\***

**The deadline for submitting applications  
will end on July 15th, 2025, at 3:00 p.m.**

*Fundació Institut de Recerca de l'Hospital de la Santa Creu i Sant Pau, sited at C. Sant Quintí, 77-79, 08041, Barcelona, Tel: 93 291 90 50, NIF: G-60136934, as Data Controller and in compliance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) and the Organic Law 3/2018 of 5th of December, on the protection of personal data and the guarantee of digital rights, will treat your data with the sole purpose of developing this call. The legal basis for this treatment is the article 6.1 a, c and f from the GDPR, giving that we will ask for your consent, the treatment is necessary for the application of precontractual measures and its necessary to satisfy the legitimate interests pursued by the Data Controller.*

*The data will be kept during the necessary time to develop the call. Data will be treated solely by that areas and services that are allowed to in accordance with their assigned competences and functions. There will be no data cessions made unless there is a legal obligation to do so. You are entitled to exercise the rights of access, rectification, deletion, opposition, limitation and portability. In case you have any doubts, you can contact the data protection delegate at [dpo\\_ir@santpau.cat](mailto:dpo_ir@santpau.cat). You also have the right to file a complaint to the relevant control authority.*

**PERMANENCE COMMITMENT:** *Selected persons who will hold the summoned or vacant position, will not be able to apply for a new call until 1-year period has expired. In case of part-time job positions, this period will be of 6 months. In both cases, the period will compute from the date of publication of the resolution. The vacant summoned, and the ones that derive from it (intern movements), will be successively covered on the same proceeding among the submitted candidates to each particular call, regardless of whether this entails coverage of places in turns other than the call.*

**Barcelona, 01/07/2025**



**Human Resources Departament**

**Santa Creu i Sant Pau Hospital Research Institute Foundation**

### **AUTHORISATION FOR PROCESSING PERSONAL DATA**

Dear candidate:

The Fundació Institut de Recerca del Hospital de la Santa Creu i Sant Pau, with CIF G-60136934 and registered office at C/ Sant Quintí, 77-79, (08024) Barcelona, as data controller, informs you that it will process your data for the following purposes:

- Receipt of applications.
- Analysis of applications in order to incorporate the worker into the team of the Fundació Institut de Recerca del Hospital de la Santa Creu i Sant Pau, for a current vacancy and for future selection processes that fit your profile.
- To carry out personnel selection processes, as well as to formalise the hiring of the employee, if applicable.
- Comply with the required legal obligations.

The legitimate basis for processing the data is based on the legitimate interest of processing this job offer, in accordance with the provisions of Article 6.1 b) of the General Data Protection Regulation, as your data are necessary for the performance of a contract, which the data subject is a party or for the implementation of pre-contractual measures at his or her request.

However, we inform you that your data (i) will only be processed by those departments or areas of the Institute which, according to their competencies and functions, have an interest in the selection of personnel, (ii) may be communicated to public authorities and organisations, in order to comply with a legal obligation, such as service providers and third parties necessary for the management and execution of the relations derived from the request made and (iii) that they will be kept for the periods foreseen for the prescription of legal responsibilities.

Finally, we inform you that you have the right to access your personal data, to rectify them, to request their deletion, to oppose their processing and to revoke your consent to this processing. In certain circumstances, you may request that we restrict the processing of your personal data, in which case we will only retain your personal data for the exercise or defence of claims. In addition, you have the right to make a complaint to the relevant data protection authority. If you have any questions about the processing of your data you can contact the Entity's Data Protection Officer by sending an email to [dpo@santpau.cat](mailto:dpo@santpau.cat).

#### **Consent**

I have been informed about the processing of my data and I consent to the processing:

☐ YES

☐ NO

Name & Surname:

Signature