

## ***INTERNATIONAL CALL IC35\_24***

### **JOB TITLE**

Technician for the development and validation of a wearable and its application on clinical research

### **JOB DESCRIPTION**

The Pere Virgili Institute for Health Research (IISPV) is an institution that integrates research in the field of biomedicine in the "Camp de Tarragona" and the "Terres de l'Ebre". The IISPV is the instrument that the university hospitals of both health regions have been endowed with (Joan XXIII University Hospital of Tarragona, Verge de la Cinta Hospital of Tortosa, Sant Joan de Reus University Hospital, Institut Pere Mata University Hospital of Reus) and Rovira and Virgili University, in order to bring together and manage biomedical research and innovation in the territory.

**We offer a part-time contract** in the benchmark of the project "OnBREATHE: Personal air quality monitoring & data digitalisation to track chronic respiratory diseases" funded by the Instituto de Salud Carlos III with reference PMPTA22/00028. The OnBREATHE project is a collaboration of different groups of the IISPV and the University Rovira i Virgili, led by the Environmental Toxicology and Metabolomics group (<http://deeea.urv.cat/thproject/>), part of the Pediatrics, Nutrition and Human Development Research Unit (<https://www.iispv.cat/es/grup/unitat-de-recerca-en-pediatria-nutricio-i-desenvolupament-huma-urpndh/>), and including the Microsystems Nanotechnologies for Chemical Analysis Research Group (<http://deeea.urv.cat/grupminos/>), and the research group in Chromatography and Environmental Applications (<http://www.croma.urv.cat/ca/>).

Number of available positions: 1

The selected candidate will work in close collaboration with the MINOS group and perform the following tasks:

- Development of a data transmission program via Bluetooth from a microcontroller to a mobile app.
- Microcontroller programming in a high-level language (C++)
- Microelectronics compilation and debugging environment
- Transmission protocols of the Bluetooth environment
- Verification and improvement of the electronic device board
- Environmental and clinical data processing
- Writing of reports and technical protocols
- Participant recruitment and involvement in the monitoring campaigns.

### **CANDIDATE PROFILE & REQUIREMENTS**

- Degree in Engineering in Electronics, telecommunications or biomedicine or similar (effective at the beginning of the contract, September 2024).
- B2 English degree

### **IT WILL BE VALUED**

- A double degree in telecommunications and biomedical engineering
- Previous experience in the development and verification of electronic devices for wearables
- High data processing skills
- Python and R programming
- Proactivity and commitment to high standards of quality
- The ability of continuous learning, flexibility and adaptability
- Ability to work, organisation and planning
- Good communication skills in different languages (at least Spanish, Catalan and English)

### **LABOUR CONDITIONS**

- Part-time position (21.5 h)
- Workplace: IISPV Biomedical Research Labs, Hospital Sant Joan de Reus and DEEEA Pilot plants, Campus Sescelades URV, Tarragona.
- Contract: Temporary, until 30th June, 2025. Linked to PMPTA22/00028 project. Financed by funds from the Recovery, Transformation and Resilience Plan from the European Union.

- Gross annual salary: 15.000€-16.000€, depending on the qualifications.
- Starting date: 1st August 2024

## **SELECTION PROCEDURE**

- Selection of CV's. Suitable and unsuitable CV's will be identified according to the requirements. Applicants who do not meet the requirements indicated in the candidate profile and requirements will not pass to the next phase.
- Evaluation of the CV. Evaluation of the CVs up to a maximum score of 50 points.
- Motivation Letter. Attached to the resume a motivation letter with a maximum length of 2500 characters with spaces. With a maximum score of 10 points.

To access the interview phase it is necessary to have obtained a minimum score of 35 points in the sum of scores of the evaluation of the curriculum and motivation letter

- Personal interview. With a maximum score of 40 points.

<b>Items</b>	<b>40</b>
Actitud	5
Encaix en el lloc de treball	10
Experiència, funcions desenvolupades/habilitats	20
Treball en equip	5

## **SELECTION COMMITTEE**

- President: Noelia Ramírez (Principal Investigator)
- Chair 1: Eduard Llobet (Group Leader)
- Chair 2: Mahsa Naghavi Sheikholeslami (Postdoctoral Researcher)

## SUBSTITUTES:

- President: Maria Vinaixa (Principal Investigator)
- Chair 1: Joaquín Escribano (Principal Investigator)
- Chair 2: Xavier Blanch (Technician)

## **CANDIDATURES**

- The CV must include the DNI/NIE number or another personal identity document number.
- A **motivation letter** for the position is compulsory.
- Send the CV and the Motivation Letter through the IISPV website.  
<https://www.iispv.cat/treballa-amb-nosaltres/>

For any questions or queries: [recruitment@iispv.cat](mailto:recruitment@iispv.cat)

## **DEADLINE FOR RECEIPT OF CV 18/07/2024**

## **COMMUNICATIONS**

The IISPV will notify the candidates of the results of the different phases of the selection process through its website.

## **HR EXCELLENCE IN RESEARCH**

The IISPV has the European accreditation The Human Resources Strategy for Researchers (HRS4R), complies with the general principles of the European Charter for Researchers and the Code of Conduct for the recruitment of researchers.

The IISPV has an internal recruitment policy that follows the Open, Transparent and Merit-based Recruitment (OTM-R) policies. More information about the HRS4R policies implemented at the IISPV is available on the following website: <https://www.iispv.cat/hrs4r-hr-excellenceresearch/>

The IISPV will guarantee the right to equal opportunities and treatment, as well as the real and effective exercise of rights by people with disabilities under equal conditions with respect to other citizens, through the promotion of personal autonomy, universal accessibility, access to employment, inclusion in the community and independent living and the eradication of any form of discrimination, in accordance with articles 9.2, 10, 14 and 49 of the Spanish Constitution and the International Convention on the Rights of Persons with Disabilities and international treaties and agreements ratified by Spain.

In the event of a tie, priority will be given to hiring the person with a disability.

In the event of a tie between people of different genders, the person of the least represented gender in the work group/department/service in which he joins will be hired.