

## **La Caixa INPhINIT 'Retaining' 2023 PhD fellowship candidate**

Aragon Institute of Engineering Research (I3A) – Zaragoza, Spain

### **Positions and project**

The Biomedical Signal Interpretation and Computational Simulation (BSiCoS) group at the University of Zaragoza (Spain) seeks a Predoctoral candidate to apply for a **La Caixa INPhINIT 'Retaining' 2023 PhD fellowship** to work on developing deep learning and artificial intelligence (AI) models to predict a broad set of cardiovascular diseases.

The candidate will be involved in 1) developing AI models (preferably using Python) to analyse biomedical signals, including the electrocardiogram (ECG); 2) mapping and investigating the mechanisms of cardiovascular risk.

### **Eligibility criteria**

The predoctoral candidate must hold a BSc or MSc in Engineering, Mathematics or Physics and have strong oral and written communication skills in English (B2 level or higher). Experience in Python, Matlab or R programming is desirable. Importantly, candidates must have lived in Spain or Portugal **for more than 12 months during the 3 years prior to the call deadline (February 16<sup>th</sup>, 2023)**.

### **The I3A Institute at University of Zaragoza**

The Aragon Institute of Engineering Research (I3A), <https://i3a.unizar.es/es>, within the University of Zaragoza, comprises more than 500 researchers and a vibrant environment for multidisciplinary research. BSiCoS group, <https://bsicos.i3a.es/>, is a leading group expert in the development of data science and developing models to aid in the diagnosis, prognosis and treatment of cardiovascular diseases and conditions.

### **Contact**

Interested candidates are required to send a cover letter and a 2-page CV to Dr Julia Ramírez ([Julia.Ramirez@unizar.es](mailto:Julia.Ramirez@unizar.es)) or Prof Pablo Laguna ([laguna@unizar.es](mailto:laguna@unizar.es)) **before January 23<sup>rd</sup>, 2023**.

More information on the call can be found here:

<https://fundacionlacaixa.org/en/inphinit-doctoral-fellowships-retaining>

