


## Company Description

We are seeking to integrate a postdoc in the project "AI-HyperLoop-BCI: An Intelligent Hyper-Loop Brain-Computer Interface to Prevent Epileptic Seizures". This project is a collaboration between the Laboratory of Neural Stem Cells and Neurogenesis, at ACHUCARRO and the Mathematical, Computational and Experimental Neuroscience Lab at BCAM (The Basque Center for Applied Mathematics). The project will be co-supervised by IKERBASQUE Professors Dr. Juan M Encinas and Dr. Serafim Rodrigues.

## Information

 **Deadline:** 2023-03-30  
 **Category:** Academia  
 **Province:** Bizkaia

 **Country:** Basque Country  
 **City:** Bilbao

## Company

Achucarro Basque Center for Neuroscience



## Main functions, requisites & benefits

### Main functions

The general goal is to apply HPC&AI to detect the self-generated patterns of neuronal activity that precede epileptic seizures and disrupt them with therapeutic purposes.

### Requisites

We are seeking a postdoctoral researcher with expertise in computational analysis and modelling of recordings from multichannel electrode arrays and calcium imaging in vitro and in vivo. Hands-on expertise in experimental biology (stereotaxic surgery and electrode implantation) will be appreciated.

### Benefits

This contract is funded by the High-Performance Computing and Artificial Intelligence IKUR Strategy of the Basque Government and has a duration of 2 years. The gross annual salary will be 33.400 euros. Candidates that have not worked/lived in our territory for more than 5 years can opt to a special tax regime than can increase the net salary: <https://www.investinbiscay.com/en/bizkaia-tax-breaks>

