

OFFER – Two research positions – Degree in sciences

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The IBF is a joint research centre of the University of the Basque Country (UPV/EHU) and the Spanish National Research Council (CSIC). In partnership with Fundación Biofísica Bizkaia (FBB), the centre focuses on advancing knowledge about the physical and chemical processes underlying biology and disease. With the FBB accredited as a Basque Excellence Research Centre (BERC) by the Basque Government, the IBF and FBB partnership enjoys a strong national and international reputation, and provides outstanding shared facilities for advanced biophysical and structural biology approaches in a new research building in the main Leioa campus of the UPV/EHU.

Offer and description of the project

We invite highly motivated candidates to apply for an immediately available two research positions in the laboratory of Dr. David Rodríguez Larrea at the Basque Centre for Biophysics (IBF; www.biofisika.org) in Leioa, Spain.

The successful candidate will work on developing a next-generation diagnostic tool. It will work by measuring simultaneously many analytes using next-generation single-molecule sensors. We aim to generate molecular barcodes by ligating oligonucleotides of defined sequences. These molecular barcodes can be read one by one with a single-molecule reader (a nanopore). The molecular barcodes will label antibody-like proteins. Following the read of the barcode, the protein is translocated through the nanopore reader and the signal tells whether the antibody had a ligand bound or not.

Our group does cutting edge research, we have good levels of funding and we publish regularly in top journals with recent publications (last 10 years in Nature Communications, Nature Methods, PNAS, ACS nano, Biosensors&Bioelectronics, Nature Nanotechnology, Nature Biotechnology and Science).

Following this contract, provided that both parts agree, we will offer the opportunity to do the PhD.

Required background

A degree in sciences is required. Ideally in Biochemistry, Biotechnology or Chemistry. Physics is also welcome. Following this contract, provided that both parts agree, we will offer the opportunity to do the PhD.

We are an equal opportunity employer committed to diversity. Applications should be addressed through the Biofisika website contact page (<http://biofisika.org/contact/>), adding the following subject: [Job Application: ***112_2Research***]. It is recommended that applications are made as soon as possible as they will be considered upon arrival. Applications in a single pdf file must include:

- Short focused CV.
- A motivation letter.
- 2 reference letters.

Deadline: November 17, 2023