

## Company Description

Fundación Biofísica Bizkaia (FBB) is a centre of excellence which focuses on fundamental and translational biophysics research and offers a highly collaborative culture. Accredited as a Basque Excellence Research Centre (BERC), it 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. Description of the project Remodeling of protein aggregates by molecular chaperones Molecular chaperones play an essential role in the cellular protein homeostasis network, as they are dedicated to ensure that proteins acquire and retain their native structure and function. Acute and prolonged stress situations, mutation and aging can overcome the buffering effect of the proteostasis network, resulting in the increase of unfolded protein concentration which in turn derives in aggregation. Protein aggregation represents a major burden for the cell due to the loss-of-function of the aggregated protein and the toxicity associated with the oligomers and aggregates formed during this process. In humans, various devastating neurodegenerative pathologies (Parkinson, Alzheimer, dementia, etc.) are linked to the aggregation of different proteins as Tau, and -synuclein. An essential route to clear protein aggregates in human cells is their solubilization and reactivation by molecular chaperones belonging to the Hsp70, Hsp40 and Hsp110 families.

## Information

 Deadline: 2020-09-30  
 Category: Academia  
 Province: Bizkaia

 Country: Basque Country  
 City: Leioa

## Company

Basque Centre for Biophysics



## Main functions, requisites & benefits

### Main functions

We look for a highly motivated PhD candidate to join the "Molecular Chaperones and Protein Folding Lab" in Instituto Biofísica (UPV/EHU, CSIC). The candidate must commit, in her/his own benefit, to reach a high level of excellence. The candidate responsibilities include: to apply himself/herself to the best of his/her abilities to the completion of research goals that would lead to the completion of a PhD degree to assist other members of the research team in the furtherance of the group's work.

### Requisites

Education and Experience Required A Master's degree in Biochemistry, Molecular Biology, Biotechnology, Chemistry, Biomedicine or related disciplines is required. Individuals with a background in protein function and protein-protein interactions are particularly encouraged to apply. Graduate students are also offered to join the lab.

### Benefits

We offer an initial one-year contract, which can be extended an additional year, to familiarize the candidate with our research project and to adequately prepare the application to national and regional PhD fellowships.

