

**Company  
Description**

BCAM is the Research Center on Applied Mathematics created with the support of the Basque Government and the University of the Basque Country, which aims to strengthen the Basque science and technology system, by performing interdisciplinary research in the frontiers of mathematics, talented scientists' training and attraction, so the excellence of our results are recognized by the Society

**Information**

 Deadline: 2022-01-31  
 Category: Academia  
 Province: Bizkaia

 Country: Basque Country  
 City: Bilbao

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**Main functions, requisites & benefits****Main functions**

Basque Center for Applied Mathematics – BCAM offers a postdoctoral position in the framework of Ikur strategy on Infection Hypothesis of Alzheimer's Disease. The position will be working with the Prof. Serafim Rodrigues, Topological data analysis, Molecular Simulations and Machine learning applied to Infection Hypothesis of Alzheimer's Disease.

**Requisites**

Applicants must have their PhD completed before the contract starts. The scientific profile must be the following: Strong background in mathematics, computational physics, computational quantum chemistry. Strong background in Topological Data Analysis, Geometry and notions of Machine learning. Track record on all-atom molecular dynamics and network theory. Desirable if the candidate has knowledge of X-ray crystallography, FRET experiments and other receptor-ligand assays. Good practice in using data from RCSB PDB database and working with protein complexes. Good programming skills in Python and/or C/C++. Interest and disposition to work in interdisciplinary groups.

**Benefits**

The gross annual salary of the Fellowship will be 28.000 - 32.000€. It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency. There is a moving allowance for those researchers that come from a research institution outside the Basque Country up to EUR 2.000 gross. Free access to the Public Health System in Spain is provided to all employees.

