

Company Description

BCAM is a world-class interdisciplinary Research Center in the field of Applied Mathematics that was founded in 2008 as a Basque Excellence Research Center (BERC), with a focus on interdisciplinary research in Mathematics, as well as training and attracting talented scientists, and promoting scientific and technological advances worldwide. The center has been awarded (2013, 2018, 2021) three times in a row with the Severo Ochoa distinction that consolidates BCAM as one of the most relevant institutions of the field in Europe.

Information

 Deadline: 2025-03-31
 Category: Academia
 Province: Bizkaia

 Country: Basque Country
 City: BILBAO

Company

BCAM



Main functions, requisites & benefits

Main functions

You will take a substantive role in developing a tool which can be easily integrated into any AI workflow, in a plug and play fashion, to continuously monitor and improve its fairness. A key aspect of the tool is the ability to operate with different types of data (tabular, images, and text) in a variety of contexts (binary and multiclass classification and regression). It is also able to match datasets in different domains including out-of-distribution data even if these datasets have different numbers of variables or features.

Requisites

Applicants must have their PhD completed (or near completion) before the contract starts. PhD Degree preferable in Machine Learning, Computer Science, Statistics, Mathematics or related fields or equivalent experience and/or qualifications. Knowledge in algorithmic bias and fairness, optimal transport, statistical matching is desired. Strong programming skills, with proficiency in Rust, Python, PyTorch. Experience using software engineering tools and processes including version control, agile tooling (e.g. Jira, GitHub Projects), code reviews and pull requests. Knowledge in epidemiology is desired. Interest and disposition to work in interdisciplinary groups.

Benefits

The Gross Annual Salary of the Fellowship will be 40,119€ - 43,919€ according to experience. It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency. Additionally, we offer a moving allowance up to 4,000€. Should the Researcher have a Family at the time of recruitment: 1. 3,000€ gross in a single payment will be offered (you must be married-official register or with children and the certificate to prove it must be sent). 2. 1,200€ gross per year/per child (up to 2 children) will be offered (the certificate to prove it must be sent). Free access to the Public Health System in Spain is provided to all employees BCAM provides the following benefits: Flexibility: BCAM has established several flexibility measures related to working hours and vacation time. The objective is to maximize the compatibility of personal and professional life situations. Multi-Cultural Centre: Researcher from about 25 nationalities work at BCAM. International Mobility: The development of BCAM's activity entails the temporary relocation of staff. For this reason, BCAM has a series of processes that facilitate the advance and reimbursement of expenses and assistance abroad. Relocation Service: Bizkaia Talent is a non-profit association that support BCAM Researchers and their families. Their Relocation Service, (EURAXESS Service Centre), was set in motion to advise and/or inform, free of charge, about administrative issues and how to adapt to living in the area of Bilbao (accommodation, education, health, leisure and so on). Special Regime for Relocated Workers: People who have not lived in Spain in the last 5 years can deduct up to 35% in the income tax for 6 years after they come here. Training: BCAM offers all its staff training opportunities appropriate to each function and level of responsibility, to promote professional and personal aptitudes, and help their career growth. Technology: BCAM offers to all the staff several advantages for the acquisition and the particular use of computer technologies.