basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2023_04 BCAM International Call

Research Technician for the integration and analysis of multi-platform data for identification of potential cancer biomarkers

Job Offer	
Topics:	The project will focus on the use of Hamiltonian Monte Carlo methodologies for solving mathematical models in biomedical applications, with a particular interest in Breast Cancer research. The candidate will develop and test models for clinical prediction using public medical datasets. In parallel, the impact of Hamiltonian Monte Carlo methods on the quality of predictions will be studied in comparison with the commonly used sampling techniques for Bayesian inference. The proposed project includes statistical analysis of synthetic and real medical data; development of prediction models; their implementation in the in-house software package and analysis of the resulting data.
PI in charge:	E. Akhmatskaya and M. Parga Pazos
Salary and conditions:	**The gross annual salary of the Fellowship will be 19.188-29.120€** 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 1.000€. Should the researcher have a family at the time of recruitment: 1. 1.000€ 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. 600€ 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.*

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Contract and offer:	6 months
Deadline:	**26th May 2023 14:00 CET**
How to apply:	Applications must be submitted on-line at: http://www.bcamath.org/en/research/job

Scientific Profile Requested	
Requirements:	• M.Sc. or Ph.D. degree in Applied Mathematics / Statistics / Physics / Engineering or Biomedical Sciences with sufficient mathematical background
Skills and track-record:	• Good interpersonal skills. • Demonstrated ability to work independently and as part of a collaborative research team. • Ability to present and publish research outcomes in spoken (talks) and written (papers) form. • Ability to effectively communicate and present research ideas to researchers and interested parties with different backgrounds. • Fluency in spoken and written English.
Scientific Profile:	The preferred candidate will have: • Experience with Statistical models/Data science, preferably with knowledge of Bayesian statistics. • Solid programming skills, preferably in R, C, Python. • Interest in biological/medical applications. • Background knowledge in Monte Carlo methods, mathematical modelling and data analysis is highly desirable.

Application and Selection Process	
Formal Requirements:	The selected candidate must have applied before the application deadline online at the webpage http://www.bcamath.org/en/research/job The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile. Additional documents could be requested during the evaluation process so as to check this fulfilment.

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Application:	Required documents: ▪ CV ▪ Letter of interest ▪ 2 recommendation letters (desirable)
Evaluation:	Based on the provided application documents of each candidate, the evaluation committee will evaluate qualitatively: the adaption of the previous training and career to the profile offered, the recommendation letters, the main results achieved (papers, proceedings, etc.), the statement of past and proposed future research and other merits; taking in account the alignment of these items to the topic offered.

Incorporation:	***As soon as possible***

EUSKO JAURLARITZA
GOBIERNO VASCO