basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2024_03_01 BCAM International Call

Research Technician in Computational and Applied Mathematics

Job Offer	
Topics:	The Basque Center for Applied Mathematics - BCAM, is looking for a Research Technician position in Computational and Applied Mathematics to join the Mathematical Design, Modelling and Simulations (MATHDES) group, and work under the supervision of Dr. Matteo Croci (https://croci.github.io). This position is funded by a Ramón y Cajal (Atracción de Talento) grant. We are searching for a promising pre-doctoral researcher who is eager to kickstart their career as a researcher. We especially welcome candidates from under-represented backgrounds. This is an open-topic multidisciplinary position which can be tailored to the interests of the research technician. Possible topics are: - Multilevel Monte Carlo methods. - Uncertainty Quantification. - Reduced- and mixed-precision computing - Deep learning methods for partial differential equations. While the focus of the position will be on developing computational methods and their theory, applications may include biomedical computing and brain fluid simulations for advancing research on neurodegenerative diseases. The initial contract duration will be of 1 year with ample possibilities for renewal. Our hope is to later on incorporate the research technician within BCAM's doctoral programme, subject to satisfactory performance.
PIs in charge:	Matteo Croci
Salary and conditions:	**The gross annual salary of the Fellowship will be 19.764€-29.994€**

	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.*
Nº Positions offered:	**1**
Contract and offer:	**1 year (**with possibilities for renewal)
Deadline:	**May 24th, 2024, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted on-line at: https://joboffers.bcamath.org

Scientific Profile Requested	
Requirements:	• Promising young researchers • Master degree in Mathematics, Statistics, Computer Science, or Engineering (which must be obtained before the position start date).
Skills and track-record:	Although the requirements can be adapted to the different candidate profiles, a strong candidate needs to possess the following skills: • Good interpersonal skills. • Good English language skills (oral and written).
Scientific Profile:	The preferred candidate will have: • Some coding experience. • Some undergraduate-level knowledge of the basics required for the topic(s) of interest. E.g., candidates interested in Uncertainty Quantification and Monte Carlo methods should preferably have some background in basic probability theory.

IC2024_03_01 BCAM International Call

Application and Selection Process	
Formal Requirements:	The selected candidate must have applied before the application deadline online at the webpage: https://joboffers.bcamath.org The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.
Application:	Required documents: • CV • Letter of interest in English describing which topics the candidate is interested in researching. • 2 recommendation letters • Academic record: including undergraduate and master-level courses attended and grades • A scientific results achieved and research statement is NOT required (leave blank in application form).
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:	**From 2 September 2024**

Este contrato es parte de la ayuda RYC2022-036312-I, financiado por MCIU/AEI/10.13039/501100011033 y por el FSE+, según Resolución de 21 de diciembre de 2022, de la Presidencia de la Agencia Estatal de Investigación y su resolución de concesión de 16/12/2022.