POST DOCTORAL FELLOW IN COMPUTATIONAL MATHEMATICS

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

We are looking for a promising Researcher with a background in Geometric Modeling and Manufacturing. The possible Research Topics include, but are not limited to: Simulations of 5-axis hybrid manufacturing, in particular 3D printing and/or 5-axis computer numerically controlled (CNC) machining, free-form surface rationalization, and robot motion- and path-planning and optimization. Previous experience in geometric modeling projects related to CNC machining, 3D printing, and/or robotics is particularly welcome.

Requisites

PhD Degree in mathematics, computer science, or related area. Applicants should have their PhD completed before 01.02.2025. Ability to effectively communicate and present research ideas to researchers with different background. Ability to clearly present and publish research outcomes in spoken (talks) and written (papers) form. High level of spoken and written English. Good communication and interpersonal skills. High-level programming skills (C, C++, Python).

Benefits

The Gross Annual salary of the Fellowship will be 30,444 - 37,331€ 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 2,000€. Should the Researcher have a Family at the time of recruitment: 1.   2,000€ 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. The candidate will also have the opportunity to interact and work with other researchers, and will be part of a research group with a good balance of younger and more established researchers with a vast collective range of interests in Computational Mathematics and related areas, and counts with a large network of collaborators spread across different countries. 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