basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2024_12_02 BCAM International Call

Postdoctoral Fellow in in Computational Mathematics

Job Offer	
Topics:	**The Basque Center for Applied Mathematics- BCAM, is launching one Postdoctoral position of one year, renewable based on funding availability and conditioned by a positive performance evaluation of the first year, to work in The Mathematical Design, Modelling and Simulations group (MATHES) at BCAM, under the supervision of Dr. Michael Barton.** The position will be for one year at the Basque Center of Applied Mathematics, funded by the project Aurrera, with the possibility of renewal for one more year based on funding availability and research progress of the selected candidate. 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. 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. If you are a passionate about Geometric Modeling and Manufacturing, and eager to embark on a research career at BCAM, this opportunity is for you. Apply now and become part of our dedicated team at BCAM.
PI in charge:	Dr. Michael Barton

Salary and conditions:	**The gross annual salary of the Fellowship will be 29.994 - 36.420€ 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.*
Contract and offer:	**1+1 years** (the second year's contract is conditioned by a positive performance evaluation of the first year)
Deadline:	**31/01/2025 14:00 CET**
How to apply:	Applications must be submitted on-line at: https://joboffers.bcamath.org/

Scientific Profile Requested	
Requirements:	• PhD degree in mathematics, computer science, or related area. • Applicants should have their PhD completed before 01.02.2025 • Promising young researchers.

Skills and track-record:	• 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)
Scientific Profile:	The preferred candidate will have : • 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.

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. Additional documents could be requested during the evaluation process so as to check this fulfilment.
Application:	Required documents: ▪ CV ▪ Letter of interest ▪ 2 recommendation letters ▪ Statement of past and proposed future research (2-3 pages). Future research statement should relate to at least one of the topics described in the Scientific Profile.

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:	**15.2.2024 or as soon as possible thereafter.** *The BCAM postdoctoral contract will start when the selected candidate has finished the PhD, i.e. after dissertation defence.*

EUSKO JAURLARITZA GOBIERNO VASCO
HEZKUNTZA SAILA
DEPARTAMENTO DE EDUCACIÓN

European Commission

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