basque center for applied mathematics

IC2020_07 BCAM International Call

Postdoctoral Fellowship in Computational Mathematics – MACROPISTAS Project

Job Offer	
Topics:	**Computational Mathematics** The researcher will work on a Spanish Ministry funded research project MACROPISTAS – MAnufacturing of CuRved Objects via Path-desIgn of cuSTom-shAped toolS, that deals with manufacturing of complex curved objects. Possible research topics include, but are not limited to: path planning algorithms for 5-axis computer numerically controlled (CNC) machining and contact-based inspection, free-form surface rationalization, and tool-shape design and optimization. Previous experience in geometric modelling projects is particularly welcome.
PI in charge:	Michael Barton and Amaia Calleja
Salary and conditions:	**The gross annual salary of the Postdoctoral Fellowship will be 28,000 – 32,000€.** It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency. There is a moving allowance for those researchers that come from a research institution outside the Basque Country up to EUR 2.000 gross. *Free access to the Public Health System in Spain is provided to all employees.*
No Positions offered:	**#1**
Contract and offer:	**1+1 years** (the second-year contract is conditioned by a positive performance evaluation of the first year)
Deadline:	**18th September 2020, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted on-line at: http://www.bcamath.org/en/research/job

Scientific Profile Requested	
Requirements:	• Promising young researchers. • Applicants must have their PhD completed before 31.08.2020. PhD degree in mathematics, computer science, mechanical engineering, or related area.

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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. • Skilled in one of the following programming languages: C, C++, C#, Python. • High level of spoken and written English. • Good communication and interpersonal skills. • Skilled in manufacturing technologies such as machining. • Skilled in CAM software.
Scientific Profile:	The researcher will work on a Spanish Ministry funded research project MACROPISTAS – MAnufacturing of CuRved Objects via Path-desIgn of cuSTom-shAped toolS), that deals with manufacturing of complex curved objects. Possible research topics include, but are not limited to: path planning algorithms for 5-axis computer numerically controlled (CNC) machining and contact-based inspection, free-form surface rationalization, and tool-shape design and optimization. Previous experience in geometric modelling projects is particularly welcome.

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.
Application:	Required documents: ▪ CV ▪ Letter of interest ▪ 2 recommendation letters ▪ Statement of past and proposed future research (2-3 pages)
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:	**October-November 2020 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

EXCELENCIA
SEVERO
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