## Job Offer

### Topics:
The Basque Center for Applied Mathematics is launching one Postdoctoral position of 2 years, to work in the area of Computational Mathematics.

The candidate is expected to work on a project Geometric Modeling and Manufacturing, funded by Severo Ochoa.

We are looking for a promising young researcher, who has the PhD completed before 01.04.2024. PhD degree in mathematics, computer science, or related area. and expertise connected to the research interests of the group in Mathematical Design, Modelling and Simulations (MATHES).

The position is for a postdoctoral contract of two years at the Basque Center of Applied Mathematics, under the supervision of Dr Michael Barton.

### PIs in charge:
Dr. Michael Barton, Ikerbasque Research Associate.

### 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.

Nº Positions offered: 1
Contract and offer: 1+1 years (the second year’s contract is conditioned by a positive performance evaluation of the first year)
Deadline: April 14th, 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.
• Applicants should have their PhD completed before 01.04.2024. PhD degree in mathematics, computer science, or related area

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.

Scientific Profile:
In the selection procedure we will appreciate:
• Possible research topics include, but are not limited to: simulations of 5-axis hybrid manufacturing, in particular 3D printing and 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

<table>
<thead>
<tr>
<th>Formal Requirements:</th>
<th>The selected candidate must have applied before the application deadline online at the webpage: <a href="https://joboffers.bcamath.org">https://joboffers.bcamath.org</a></th>
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<td>The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.</td>
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<th>Application:</th>
<th>Required documents:</th>
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<tr>
<td></td>
<td>§ CV</td>
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<td>§ Letter of interest</td>
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<td>§ 2 recommendation letters</td>
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<td>§ Statement of past and proposed future research (2-3 pages)</td>
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| 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:                     | May 2024, or as soon as possible thereafter.                                                                                     |