Postdoctoral Fellowship in Mathematical, Computational and Experimental Neuroscience

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<th><strong>Job Offer</strong></th>
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| **Topics:** Postdoctoral Fellowship in Mathematical, Computational and Experimental Neuroscience (MCEN).  
The researcher will work in the MCEN team, a vibrant international group aiming to explain how the brain processes and stores information, how these are disrupted under pathological conditions and develop novel technologies to treat neurodegenerative diseases.  
Main activities:  
- Perform modelling and data analysis on biological data  
- Interact with experimentalists and mathematicians alike |
| **PI in charge:** Ikerbasque Professor Serafim Rodrigues |
| **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:** 2 years |
| **Deadline:** 14th December 2020, 14:00 CET (UTC+1) |
| **How to apply:** Applications must be submitted on-line at: [http://www.bcamath.org/en/research/job](http://www.bcamath.org/en/research/job) |

**Scientific Profile Requested**

| **Requirements:** Promising young researchers.  
Applicants must have their PhD completed before the contract starts. |
### BCAM International Call

**Skills and track-record:**
- PhD degree in mathematics or related area.
- 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.
- Solid programming skills, in particular programming applied to Mathematical problems.
- Scientific languages such as Python and symbolic computing environments like Maple.

**Scientific Profile:**
- Experience on state-of-the-art data-analytic techniques, in particular Geometric and Topological Data Analysis.
- Good familiarity with time series analysis and data analysis is required.
- Working knowledge in Mathematical Neuroscience, Network theory, Stochastic systems including Mathematical modelling via differential equations.

### 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](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
Incorporation: January 2021 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.