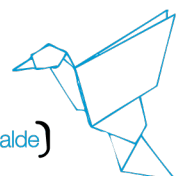


## Postdoctoral Fellowship in Modelling and Simulation in Life and Materials Sciences

Job Offer	
Topics:	<p>Bayesian analysis with Hamiltonian Monte Carlo methods in biomedical applications</p> <p>The selected candidate will work on Bayesian analysis with Hamiltonian Monte Carlo methods in biomedical applications under the supervision of <a href="#">Elena Akhmatskaya</a> in collaboration with the members of <a href="#">MSLMS</a> as well as the Researchers in the Joint BioEnergy Institute (<a href="#">JBEI</a>), US DOE, and the Brest Cancer Stem Cells Lab at <a href="#">CIC bioGUNE</a>.</p> <p>The applications of interest include metabolic flux analysis and drug sensitivity prediction. The Hamiltonian Monte Carlo (HMC) and the <a href="#">Mix &amp; Match HMC</a> implemented in BCAM in-house software HaiCS (<b>H</b>amiltonians in <b>C</b>omputational <b>S</b>tatistics) will be used as primary sampling tools in Bayesian analysis and developed further.</p>
PI in charge:	Elena Akhmatskaya
Salary and conditions:	<p><b>The gross annual salary of the Fellowship will be 28.000 - 32.000€.</b></p> <p>It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency.</p> <p>There is a moving allowance for those researchers that come from a research institution outside the Basque Country from EUR 1.000 to EUR 2000 gross.</p> <p><i>Free access to the Public Health System in Spain is provided to all employees.</i></p>
No Positions offered:	<b>#1</b>
Contract and offer:	<b>2-year contract</b>
Deadline:	<b>April 3<sup>rd</sup> 2017 15:00 CET (UTC+1)</b>
How to apply:	Applications must be submitted on-line at: <a href="http://www.bcamath.org/en/research/job/">http://www.bcamath.org/en/research/job/</a>

### Scientific Profile Requested

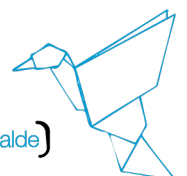


## IC2016\_Winter BCAM International Call

Requirements:	<ul style="list-style-type: none"> <li>Promising young researchers.</li> <li>Applicants must have their PhD completed before the contract starts. PhD degree preferable in Applied Mathematics, Statistics, Computational Biology / Physics or Computer Sciences</li> </ul>
Skills and track-record:	<ul style="list-style-type: none"> <li>Good communication and interpersonal skills.</li> <li>Ability to effectively communicate and present research ideas to researchers with different background (mathematicians, biologists, and medical doctors).</li> <li>Ability to clearly present and publish research outcomes in spoken (talks) and written (papers) form.</li> <li>Good command of spoken and written English.</li> <li>Good programming skills in R / Matlab / Julia / C / C++.</li> </ul>
Scientific Profile:	<p>The preferred candidate will have:</p> <ul style="list-style-type: none"> <li>Research experience in Bayesian inference, MCMC, Hamiltonian Monte Carlo, importance sampling.</li> <li>A background in numerical methods for PDE and mathematical modelling is desirable.</li> <li>A taste for interdisciplinary applications.</li> </ul>

### Application and Selection Process

Formal Requirements:	<p>The selected candidate must have applied before the application deadline online at the webpage <a href="http://www.bcamath.org/en/research/job">http://www.bcamath.org/en/research/job</a></p> <p>The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.</p>
Application:	<p>Required documents:</p> <ul style="list-style-type: none"> <li>CV</li> <li>Letter of interest</li> <li>2 recommendation letters</li> <li>statement of past and proposed future research (2-3 pages)</li> </ul>
Evaluation:	<p>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</p>



**IC2016\_Winter BCAM  
International Call**

	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.
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<b>Incorporation:</b>	<b>September 2017 or as soon as possible thereafter.</b> <i>The BCAM postdoctoral contract will start when the selected candidate has finished the PhD, i.e. after dissertation defence.</i>
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