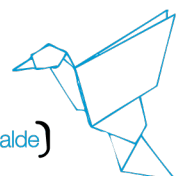## Postdoctoral Fellowship in Simulation of Elasto-Acoustic Wave Propagation in Porous Rocks

| Job Offer | |
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| Topics: | Computational and Applied Mathematics, Linear Elasticity, Finite Element Methods. |
| PI in charge: | David Pardo |
| Salary and conditions: | **The gross annual salary of the 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 from EUR 1.000 to EUR 2000 gross. *Free access to the Public Health System in Spain is provided to all employees.* |
| No Positions offered: | **#1** |
| Contract and offer: | **2-year contract** |
| Deadline: | **July 14th, 2017 15:00 CET (UTC+1)** |
| How to apply: | Applications must be submitted on-line at: http://www.bcamath.org/en/research/job/ |

| Scientific Profile Requested | |
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| Requirements: | • Promising young researchers.<br>• Applicants must have their PhD completed before the contract starts. PhD degree preferable in Applied Mathematics, Engineering, or Computer Sciences. |
| Skills and track-record: | • Good communication and interpersonal skills.<br>• Ability to effectively communicate and present research ideas to researchers with different background (mathematicians, engineers, and geophysicists).<br>• Ability to clearly present and publish research outcomes in spoken (talks) and written (papers) form.<br>• Good command of spoken and written English.<br>• Good programming skills. |
| Scientific Profile: | The main duty of the selected candidate will be to develop |

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| | within a team environment an in-house simulation multi-scale finite element software for a parallel machine. The goal is to efficiently characterize the propagation of elasto-acoustic waves in porous media.<br><br>The preferred candidate will have a background in numerical methods for PDEs. Preferably, he/she will have knowledge on (a) Message Passage Interface (MPI) and OpenMP, (b) object-oriented programming, and (c) High Performance Computing (HPC). Experience in developing scientific software and finite element methods in a team environment is also desirable. |

| Application and Selection Process | |
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| Formal Requirements: | The selected candidate must have applied before the application deadline online at the webpage http://www.bcamath.org/en/research/job<br><br>The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile. |
| Application: | Required documents:<br>▪ CV<br>▪ Letter of interest<br>▪ 2 recommendation letters<br>▪ 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; the involvement in practical real data problems; taking in account the alignment of these items to the topic offered. |

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