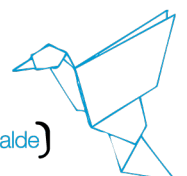# IC_2015 Industrial Research Project Developer in Applied CFD

| Job Offer | |
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| Topics: | Rain overflow tank cleaning modelling and simulation |
| | The research to be conducted is aimed to provide quantitative results and solutions to a problem formulated by the Water Consortium of Bilbao – Bizkaia. Employing existing CFD software with some eventual additional developments that will be achieved at BCAM site, in collaboration with the Computational Hydraulic Research in Zaragoza. The objective is to simulate the cleaning of a rain overflow tank by means of water injection. This is a muli-physic and multi-phase problem. Both direct simulation and optimisation techniques will be implemented. |
| PI in charge: | **Enrique Zuazua** |
| Research Line: | **Partial Differential Equations, Control and Numerics** |
| Salary and conditions: | **The gross annual salary of the Fellowship is EUR 26.000 - 30.000.** The corresponding annual net income after taxes, social security and medical coverage would be approximately EUR 20.700 - 23.300.<br><br>There is a moving allowance for those researchers that come from a research institution outside the Basque Country up to EUR 1.000 gross. |
| No Positions offered: | **# 1** |
| Contract and offer: | **6 months contract** |
| Deadline: | **September 15, 2015   14:00 CEST (UTC+2)** |
| How to apply: | Applications must be submitted on-line at:<br><br>http://www.bcamath.org/en/research/job |

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## Scientific Profile Requested

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| Requirements: | ➢ Experience in application oriented CFD projects development<br>➢ Experience in meshing (using open-sources like Salome) and solver development<br>➢ Knowledge of classical numerical methods like Finite elements and finite volume methods |
| Skills and track-record: | ➢ Experience in CFD applications<br>➢ Experience in industrial projects<br>➢ Scientific programming (C, C++,..)<br>➢ Experience in using CFD commercial and academic software |
| Scientific Profile: | ➢ Deep knowledge of CFD, both modelling and simulation<br>➢ Preferably, PhD degree in Applied Mathematics, Computational Engineering, Physics, Computer Sciences… |

## 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, including your research interest.<br>➢ 2 recommendation letters<br>➢ • Statement of past experience in application oriented CFD (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. |

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| **Incorporation:** | **Preferably before October 1, 2015** |

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