basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

**IC2026_11_01 BCAM International Call**

# Research Technician Machine Learning

| Job Offer | |
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| **Topics**: | The Basque Center for Applied Mathematics (BCAM) is seeking a highly motivated Research Technician to join its Machine Learning group and contribute to the research activities of the BayesSDP project.<br><br>The successful candidate will work on the development and implementation of Bayesian inference methodologies for linear and nonlinear dynamical systems, with a particular focus on their application to sequential decision-making under uncertainty.<br><br>This position offers an excellent opportunity to contribute to cutting-edge research at the intersection of Bayesian statistics, machine learning, and dynamical systems, within an international and collaborative research environment.<br><br>**Key responsibilities will include:**<br><br>• Implementing and evaluating Bayesian inference and decision-making algorithms.<br>• Designing and conducting simulation studies and computational experiments using real-world datasets.<br>• Developing, maintaining, and documenting reproducible open-source software.<br>• Analysing and interpreting research results.<br>• Contributing to technical reports and scientific publications.<br><br>**Contract duration:** 6 months.<br><br>We are looking for an enthusiastic candidate with a strong interest in scientific computing, machine learning, and Bayesian methodologies, who is eager to contribute to an exciting research project and collaborate with an interdisciplinary team. |

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| **PIs in charge:** | **Iñigo Urteaga** |
| **Salary and conditions:** | **The gross annual salary of the position will be 20.663€- 29.075€.**<br><br>It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency.<br><br>Additionally, we offer a moving allowance up to 500 € or 1000€ if you came from outside the European Union.<br><br>Should the researcher have a family at the time of recruitment:<br><br>1. 1.000 € in a single payment as family allowance (married-official register or with children).<br>2. 600 € gross per year / per child, (up to 2 children) (the certificate to prove it must be sent).<br><br>*Free access to the Public Health System in Spain is provided to all employees.* |
| **Nº Positions offered:** | **1** |
| **Contract and offer:** | **6 months contract** |
| **Deadline:** | **December 2nd, 2026, 14:00 CET (UTC+1)** |
| **How to apply:** | Applications must be submitted on-line at: https://joboffers.bcamath.org |

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| Scientific Profile Requested | |
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| **Requirements:** | Applicants must have the following studies:<br>• University studies in Engineering, Mathematics or Computer Science<br>• Proficiency in Python and at least one scientific/ML library (NumPy, PyTorch or similar)<br>• Working knowledge of English |
| **Skills and track-record:** | • Solid background in probability, statistics and stochastic modeling<br>• Experience implementing machine learning or statistical models, preferably on time-series data<br>• Familiarity with Bayesian inference (e.g. Monte Carlo methods, filtering) and with bandits is a plus<br>• Strong academic record; prior research experience (e.g. research internships, projects) is a plus<br>• Ability to write clear, reproducible code and to report results |
| **Scientific Profile:** | The preferred candidate will have:<br>• Strong foundations in probability, statistics and stochastic processes, and an interest in probabilistic machine learning, Bayesian inference and sequential decision-making (e.g., bandits).<br>• Experience with time-series modeling and careful empirical validation is valued. |

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| Application and Selection Process | |
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| **Formal Requirements:** | The selected candidate must have applied before the application deadline online at the webpage: https://joboffers.bcamath.org<br><br>The candidates that do not fulfill the mandatory requirements will not be evaluated with respect to their scientific profile. |
| **Application:** | Required documents:<br>● CV<br>● Letter of interest in English describing which topics the candidate is interested in researching.<br>● 2 recommendation letters |
| **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: | 1st February 2026 |
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