basque center for applied mathematics

IC2022_08 BCAM International Call

Research Technician for the Atomistic Simulation of Interfaces in Battery Materials

Job Offer	
Topics:	Atomistic Simulation, Battery Materials, Interface physics, Energy Storage, High Performance Computing
PI in charge:	Mauricio Rincón Bonilla and Henry Andres Cortes
Salary and conditions:	**The gross annual salary of the Fellowship will be 18.450€-28.000€** It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency. Additionally, we offer a moving allowance up to 1.000€. Should the researcher have a family at the time of recruitment: 1. 1.000€ gross in a single payment will be offered (you must be married-official register or with children and the certificate to prove it must be sent). 2. 600€ gross per year/per child (up to 2 children) will be offered (the certificate to prove it must be sent). *Free access to the Public Health System in Spain is provided to all employees.*
Contract and offer:	3 months (with possible extension, subject to performance review)
Deadline:	**September 30th 2022 14:00 CET**
How to apply:	Applications must be submitted on-line at: 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. Additional documents could be requested during the evaluation process so as to check this fulfilment.

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Scientific Profile Requested	
Requirements:	• M.Sc. or B.Sc. degree in Chemistry, Physics, Mathematics, Engineering, and related disciplines.
Skills and track-record:	• Good interpersonal skills. • Demonstrated ability to work independently and as part of a collaborative research team. • Ability to effectively communicate and present research ideas to researchers and stakeholders with different backgrounds. • Fluency in spoken and written English.
Scientific Profile:	The preferred candidate will have: • Experience with the LAMMPS atomistic simulation package (knowledge of GROMACS is a plus). • Solid programming skills in either Python, C++ or Fortran. • Experience with Linux, bash scripts • Background knowledge on the simulation of interfaces and/or battery materials is desirable.

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 The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile. Additional documents could be requested during the evaluation process so as to check this fulfilment.
Application:	Required documents: ▪ CV ▪ Letter of interest, succinctly describing past research experience ▪ 2 recommendation letters (desirable)
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.) and other merits; taking in account the alignment of these items to the topic offered.

Incorporation:	**As soon as possible.**

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Research topic description:	This work will be focusing on the atomistic modelling of electrode/electrolyte interfaces in lithium-ion batteries, employing reactive force fields. The researcher will set up and run simulations in LAMMPS, generate scripts for the post-processing of simulation trajectories and analyse and document his/her results.