

Company Description

BCAM is the Research Center on Applied Mathematics created with the support of the Basque Government and the University of the Basque Country, which aims to strengthen the Basque science and technology system, by performing interdisciplinary research in the frontiers of mathematics, talented scientists' training and attraction, so the excellence of our results are recognized by the Society

Information

 Deadline: 2022-09-30  Country: Basque Country
 Category: Business  City: Bilbao
 Province: Bizkaia

Company

BCAM



Main functions, requisites & benefits

Main functions

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.

Requisites

M.Sc. or B.Sc. degree in Chemistry, Physics, Mathematics, Engineering, and related disciplines. 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. 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.

Benefits

The gross annual salary of the Fellowship will be 18.450€-28.000€ Contract: 12 months (extensible) 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: 1.000€ 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). 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.

