



Amal Jyothi College of Engineering
Kanjirappally, Kottayam District
Kerala – 686518
Website: <https://www.ajce.in/>

Notification for Project Assistant Recruitment

Department of Mechanical Engineering

Applications are sought from candidates for the position of Project Assistant in the project titled "Lattice Boltzmann Solver for Pore-Scale Transport and Electrochemistry in Lithium-Oxygen Battery". The project is funded by the Department of Science and Technology (DST) in collaboration with the Ministry of Electronics and Information Technology (MeITy) under the National Supercomputing Mission. The research work will be carried out jointly by Amal Jyothi College of Engineering and CHRIST (Deemed to be University) Bangalore, utilizing the High Performance Supercomputing (HPC) facilities at IIT Kanpur.

The project involves the CFD solver development and simulations, using Lattice Boltzmann Method and PETSc numerical packages, of the pore-scale transport and reaction in lithium-oxygen battery.

The initial appointment would be for one year, extendable to another year depending upon the candidate's satisfactory performance. During the period, the candidate is expected to contribute to code development, testing and result analysis as part of his/her work. The candidate will be given authorship in the research publications generated from the project based on his/her contributions.

Job Details

- **Project Title:** Lattice Boltzmann Solver for Pore-Scale Transport and Electrochemistry in Lithium-Oxygen Battery
- **Eligibility:** MTech in Fluid and Thermal Sciences/Thermal Engineering

- **Required Skills:** Basic knowledge in CFD and C++/FORTRAN
- **Additional Skills Preferred:** Knowledge and experience in
 - running CFD codes and post-processing
 - parallel computing using MPI
 - Lattice Boltzmann Method
- **Duration of Appointment:** 2 years
- **No. of positions:** One
- **Salary Particulars:** The consolidated monthly remuneration for this position will be Rs. 31,000/- (Thirty One Thousand Rupees Only). Hostel accommodation may be provided at the institute based on availability on a chargeable basis.
- **Deadline for application:** 15 May 2021

How to Apply: Interested candidates may apply by sending their CV with the contact details of two references to hr@amaljyothi.ac.in with a copy to mjithin@amaljyothi.ac.in. The subject of the application e-mail should be "**Application for Project Assistant Position**".

Please note: Short-listed candidates will be contacted.