

1: position -1

We (Dr. N. Arul Murugan and Dr. Vibhor Kumar) are looking for a student to work with parallel computing and GPU computing and to contribute to our project entitled "Developing Algorithms for Virtual Screening in HPCs, Accelerators and Quantum computers". It is ideal to have an experience with parallel programming languages such as OpenMPI, OpenMP, CUDA, openacc, however training can be provided here. It is further preferred that the candidate student has his/her own fellowship (JRF/NET/GATE).

The virtual screening involves identification of lead compounds from different chemical libraries which have potential to inhibit certain biomacromolecular targets associated with diseases. The number of compounds in the chemical space is in the order of 10^9 to 10^{12} and it is required to develop programs for efficiently screening these compounds in reasonable time for practical purposes. The main objective of the project is to develop software/program for performing virtual screening on the compounds from huge chemical libraries in massively parallel computers and accelerators. The students can contact us with a detailed CV. Email ids for contact :

vibhor@iiitd.ac.in, arul.murugan@iiitd.ac.in

2: 1 position for PhD student with own fellowship (JRF/NET/GATE)

(co-supervision with AIIMs professor)

This position is for students with biotechnology/chemistry/biology background who are keen to do wet lab work. Previous experience with RT-PCR, qPCR, or siRNA would be an advantage. Training for Bioinformatics will be provided, however the main work would be to work in wet lab and work in hand-in-hand with other Phd students in lab and collaborator in AIIMs.

Email id for contact : vibhor@iiitd.ac.in