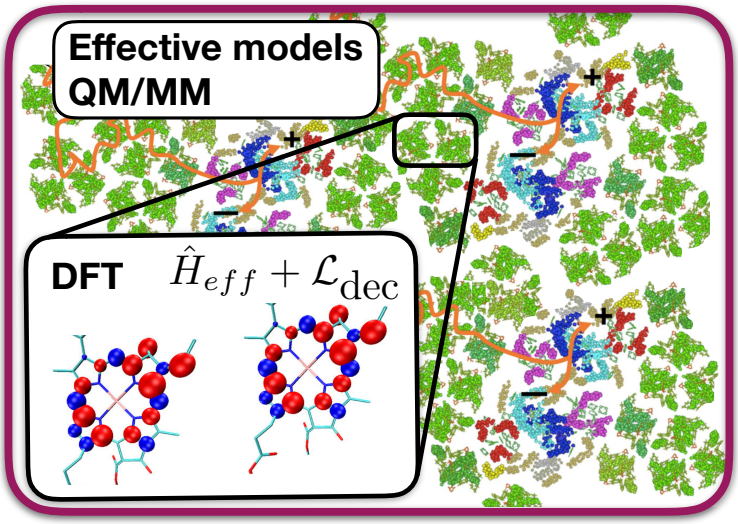
NATIONAL SUPERCOMPUTING MISSION

Junior Research Fellow Positions in computational physics/ chemistry of photo-induced phenomena at IISER Bhopal

Applications are invited from Indian nationals for **TWO** post of "Junior/Senior Research Fellows" in the NSM-sponsored project LITESOPH (**L**ayer **I**ntegrated **T**oolkit and **E**ngine for **S**imulations **o**f **Ph**otoinduced Phenomena).

Project description: The project involves development of a comprehensive toolkit for computer simulations of photo-induced phenomena based on the combination of two excited state dynamics approaches: *ab initio* techniques (based on TDDFT), and open quantum system approaches (based on simple models). Target applications shall include solar energy conversion (photovoltaics, water-splitting catalysts, solar fuels, etc.), opto-electronic materials, photochemistry and photobiology.



Duration: Initially 12 months (up to three years with satisfactory performance).

Last date for applications: The selection will commence on 25 October 2020, but the call will remain open until suitable candidates are found.

Essential Qualifications: M.Sc. in Physics, Chemistry (physical chemistry specialisation preferred) or related disciplines with good academic record (first class/division or minimum CPI of 7.0/10.0). Candidates with experience with computational physics/chemistry, programming in Python, familiarity with electronic structure codes will be preferred.

Candidate must have qualified a National Eligibility Test (UGC, CSIR, LS, GATE, etc.) with a valid rank/score at the time of applying for this post.

Candidates with research experience of 2 years or more may be considered for SRF.

Salary: Rs. 31,000 (JRF) / 35,000 (SRF) p.m. + HRA (16%) (as per experience)

How to Apply: Applications containing cover letter, a detailed CV, name and address of 2 referees as well as a brief writeup on any research work experience should be sent by email ONLY to vardha@iiserb.ac.in on or before **24th October, 2020**. Shortlisted candidates will be called for an online interview.

For more details and context see the homepage of **Dr. Varadharajan Srinivasan (ab initio methods)** and **Dr. Sebastian Wüster (open quantum systems)**.