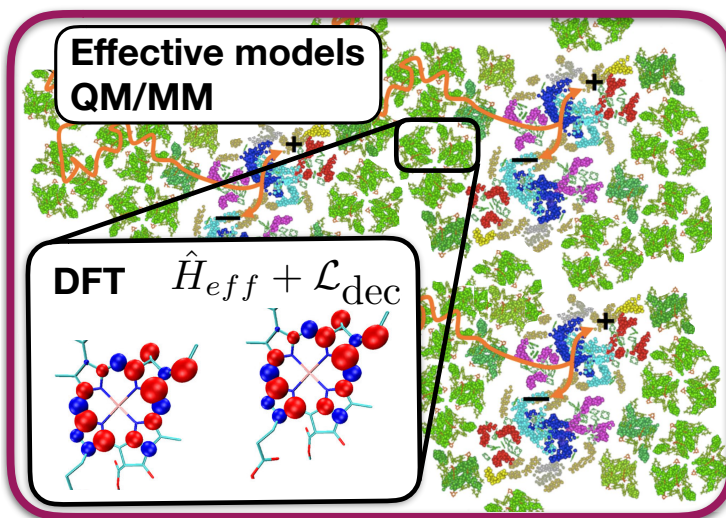


**Post-doctoral positions in  
computational physics/chemistry  
of photo-induced phenomena at  
IISER Bhopal**



Applications are invited from Indian nationals for **TWO** post of “Project Post-doctoral Fellows” in the NSM-sponsored project LITESOPH (**L**ayer **I**ntegrated **T**oolkit and **E**ngine for **S**imulations of **P**hotoinduced 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 10 January 2020, but the call will remain open until suitable candidates are found.

**Essential Qualifications:** Ph.D in Computational Chemistry/Computational Quantum Physics/Theoretical Condensed Matter Physics with good academic record.

**Desirable Qualifications:** Experience with DFT/TDDFT codes, classical / *ab initio* MD, excited state dynamics (surface hopping / Ehrenfest dynamics), open quantum systems, energy transport, photo-physics.

**Salary:** In the range of Rs. 40,000 - 90,000 p.m. + HRA (16%), depending on experience.

**How to Apply:** Applications containing an (i) cover letter, (ii) updated CV with name and address of 2 referees, (iii) a 1-page writeup on their PhD thesis should be sent by e-mail **ONLY** to [vardha@iiserb.ac.in](mailto:vardha@iiserb.ac.in) on or before 10<sup>th</sup> January, 2020. Shortlisted candidates will be called for an interview in Bhopal (no TA shall be provided).

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