



**INDIAN INSTITUTE OF TECHNOLOGY ROPAR
DEPARTMENT OF CHEMISTRY
S. S. BHATNAGAR BLOCK
RUPNAGAR, PUNJAB-140001**

ADVERTISEMENT OF A RESEARCH ASSOCIATE POSITION

Applications are invited from the Indian nationals for the position of Research Associate (RA) to work in the DST National Supercomputing Mission (NSM) funded project titled "Modeling of Atmospheric Reactions by Quantum Dynamics on the Coupled Potential Energy Surfaces" under the supervision of undersigned. The position is temporary and is available immediately.

Duration: The position is for maximum two years or till the completion of project whichever is earlier. The offer will be given initially for one year, which can be extended further based on satisfactory performance.

Qualifications:

Essential: Ph. D. in Chemistry/Physical Chemistry/Chemical Physics/Physics with good academic record. Candidates must have obtained at least 60% marks or 6.5 CGPA (55% marks or 6.0 CGPA for SC/ST) in their Master's.

Desirable: Working knowledge of Unix, Fortran/C programming, Python, Gaussian, Molpro, Jupyter notebook, etc and ability to work both independently and as part of a team.

Job Description:

The aim is to compute coupled ground and low lying excited states potential energy surfaces and non-adiabatic couplings present in the atmospheric molecules. Study the quantum dynamics of collision processes to arrive at reaction rates.

The candidate should be interested to mentor the Masters' and Doctoral scholars working in the group.

Emoluments: As per DST and Institute rules.

Last Date: 27.09.2021

Application Process:

The applicant must fill the online application on or before the due date with the required documents:

<https://forms.gle/RGyuaDEGPqTYJi378>

The shortlisted candidates will be called for the interview, and the details of the same will be notified to the candidates.

For any further information, please contact the principal investigator:

Dr. T. J. Dhilip Kumar

Principal Investigator

321 Department of Chemistry

SSB Block, Indian Institute of Technology Ropar

Rupnagar 140001 Punjab

E-mail: dhilip@iitrpr.ac.in

<http://www.iitrpr.ac.in/chemistry/dhilip>