



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

ADVERTISEMENT OF A JRF POSITION

Applications are invited from the Indian nationals for the position of Junior Research Fellow (JRF) to work in the SERB-CRG funded project titled “Ultracold Molecules and Controlled Chemistry by Machine Learning” under the supervision of undersigned. The position is temporary and is available immediately. The selected candidate may be considered for Ph.D. admissions at a later stage as per the Institute rules.

Duration: The position is for three 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:

- (i) Masters in Chemistry/Physics or relevant areas with 60% marks or 6.5 grade point out of 10 and 55% marks or 6.0 for SC/ST category
- (ii) Valid GATE or CSIR-UGC NET qualified

Desirable: Knowledge of Unix, Fortran/C programming, ability to work both independently and as part of a team

Job description:

The aim is to use machine learning methods to automate potential energy surface calculations of He collision with small carbon clusters and to combine Gaussian processes with quantum dynamics to provide improved cross sections and rates with reduced computational time.

Emoluments: As per DST-SERB rules.

Last Date: 25.01.2021

Application Process:

1. Submit the application form (attached), including Statement of purpose (1 page) and CV by email to the undersigned.
2. Additional higher short-listing criteria may be set based on number of applications received.
3. Date of interview will be informed to the shortlisted candidates via e-mail.

Dr. T. J. Dhilip Kumar

Principal Investigator

Department of Chemistry

Indian Institute of Technology Ropar,

Rupnagar-140001 Punjab

E-mail: dhilip@iitrpr.ac.in

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

Application form

For JRF to work in the SERB-CRG sponsored project

Personal Details

Full Name (In capital)			
Date of Birth (DD/MM/YY)		Category (GEN/OBC/SC/ST)	
Marital Status (Single/Married)		Gender (Male/Female)	
Nationality			
Address for Communication	Photo (Passport size)		
Mobile/Phone No.		Email:	

Details of School/University/Institute Studied (From Matriculation Onward)

S. No.	Degree	Discipline	University/Institute	Regular/ Part-time	Year	%Marks /CGPA	Division
1.							
2.							
3.							
4.							
5.							

Qualifying Examination [GATE/CSIR-UGC(JRF)/CSIR-UGC(LS)]

Qualifying Examination	Branch	Year	Valid Up to	Percentile	Score	All India Rank

Professional Experiences (Teaching/Research/Industrial) if any

Name of Organization	Designation	Nature of Work	From	To

Research Publication (if any)

Awards, patents, prizes etc (if any)

Any other Relevant Information

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected for admission, I promise to abide by the rules and discipline of the Institute. I note that the decision of the Institute is final in regard to selection for admission and assignment to a particular Department and field of study. The Institute shall have the right to expel me from the Institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Place :

Date :

Signature of Applicant