

Indian Institute of Science Education and Research (IISER), Kolkata

Campus Road, Mohanpur, Nadia, West Bengal – 741246

Department of Chemical Sciences

ADVERTISEMENT FOR JUNIOR RESEARCH FELLOW

(JRF) *Walk-in Interview / Online Application Invited*

Project Details

Project Title: Studying Elementary Steps in the Surface Chemistry of CO₂ on Copper Surfaces: A combined approach using molecular beam-surface scattering and theoretical methods

File Number: ANRF/ARG/2025/005588/CS

Funding Agency: Anusandhan National Research Foundation (ANRF) – Advanced Research Grant (ARG) Program

Principal Investigator: Dr. Ashwani Kumar Tiwari, Professor, Chemical Sciences, IISER Kolkata

Position: Junior Research Fellow (JRF)

Number of Vacancies: 01 (One)

Duration: One (1) Year (extendable subject to performance and project requirements)

Fellowship: As per ANRF/DST norms

About the Research

The selected candidate will carry out quantum and classical dynamics calculations to study molecular collisions with metal surfaces. The research involves theoretical and computational investigations into the surface chemistry of CO₂ on copper surfaces using AIMD and related methods.

Eligibility Criteria

Essential Qualifications:

- M.Sc. in Physics or Chemistry with a minimum of 55% marks from a recognized university.
- Must be NET (National Eligibility Test) or GATE (Graduate Aptitude Test in Engineering) qualified.

Desirable Qualifications:

- Experience in Theoretical Chemistry and/or Theoretical Physics calculations (e.g., quantum dynamics, classical trajectory simulations, density functional theory, etc.).

How to Apply

Interested and eligible candidates should send their application with the following documents

to ashwani@iiserkol.ac.in within **one month** from the date of this advertisement:

- Updated Curriculum Vitae (CV)
- Copies of all academic certificates and mark sheets
- NET/GATE qualification certificate
- Contact details (phone number and email address)

Contact

Dr. Ashwani Kumar Tiwari

Professor, Department of Chemical Sciences

Indian Institute of Science Education and Research (IISER), Kolkata

Campus Road, Mohanpur, Nadia, West Bengal – 741246

Email: ashwani@iiserkol.ac.in

Note: *This is a purely temporary position co-terminus with the project. No TA/DA will be paid for attending any interview/interaction. Canvassing in any form will lead to disqualification. The institute reserves the right to cancel/modify this advertisement without any notice.*

Date of Advertisement: 11 June 2026

Last Date to Apply: 11 July 2026

(Prof. Ashwani Kumar Tiwari)

Principal Investigator

ANRF-ARG Project (ANRF/ARG/2025/005588/CS)

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