



# Indian Institute of Science Education and Research Bhopal

Bhopal Bypass Road, Bhopal 462066, Madhya Pradesh

## Department of Chemical Engineering

Date: 18/01/2024

### Advertisement for the post of a Junior Research Fellow (JRF)

Project No. : SERB/CHE/2023-2024/39

Applications are invited from Indian nationals to work as Project-JRF in a research project funded by the SERB, DST, New Delhi, Government of India.

### Title: Metal-Organic-Framework-based Electrochemical Sensors Incorporated on a Paper Scaffold for the Detection of Heavy Metal Ions in Water

Candidates who have knowledge in *Electrochemistry* and some experience in *electrochemical analysis* and designing materials for *sensing applications* are highly preferred.

**No. of Position:** 1(One)

**Name of Position:** Junior Research Fellow (JRF)

**Duration:** Initially for 6 months, extendable up to 1 or 1.5 years based on satisfactory performance.

**Salary:** INR 31,000 + HRA (as applicable) per month for the candidate with CSIR/ UGC NET or GATE qualification (JRF) or INR 25,000 + HRA (as applicable) per month for the candidate without CSIR/ UGC NET or GATE qualification.

### Essential Qualifications:

- B.Tech. and M.Tech. in Polymer Science and Engineering / Chemical Engineering / Materials Science and Engineering / Chemical Technology or B.Sc. (Hons) and M.Sc. degree in Chemistry from a recognized University/Institute and having minimum 60% Marks or CGPA of 7.5 and above at a sale of 10.
- Having qualified for a national level examination like GATE/CSIR-JRF/NET(JRF)/UGC-JRF/Rajiv Gandhi Fellowship or any other equivalent fellowship in Engineering Sciences/Chemical Engineering/Chemistry/Chemical Sciences/allied areas is preferred.

### Desirable:

- Candidates should have subject knowledge in **electrochemistry** and have some experience in **electrochemical characterization techniques**, e.g., CV, EIS, stripping voltammetry, DPV, etc.

- Candidates should have mathematics as a subsidiary subject at 12th and bachelor's level.
- The position requires good analytical skills, some experience in various characterization techniques like *SEM*, *UV-Vis*, *XRD*, experiment design, handling of sophisticated equipment, and good English writing skills.

**Age limit:** Candidates should be below 28 years old.

**How to Apply:**

Applications should contain –

- a) **Cover letter including detailed CV with photograph, b) name of two referees, c) Copy of all credentials including mark sheets starting from 12<sup>th</sup> standard, NET/GATE qualification certificates, etc.**

Completed applications should reach the undersigned only by **email** on and before **10<sup>th</sup> Feb, 2024**. Keep subject of the email to be “**JRF Application**”. Incomplete application will be summarily rejected.

Only shortlisted applicants will be intimated and called for an interview. **No interim correspondence will be entertained**. No TA/DA will be given. The candidate selected will be expected to join on or before **1<sup>st</sup> March 2024**.

**Mail the applications to:**

Dr. Paramita Das

Assistant Professor, Department of Chemical Engineering

Office 307, Therm Building

Indian Institute of Science Education and Research (IISER) Bhopal

Bhopal Bypass Road, Bhauri, Bhopal 462066

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Website: <https://sites.google.com/view/das-research-group>