Indian Institute of Technology Indore

Department of Chemistry

Khandwa Road, Simrol, Indore - 453552 (M.P.), India

Date: 23 November 2026

Advertisement for the Post of One (01) Junior Research Fellow (JRF)

Applications are invited from highly motivated and research-oriented candidates for the position of one Junior Research Fellow (JRF) in the Department of Chemistry, Indian Institute of Technology Indore, under an ANRF-funded research project.

Project Title: Machine Learning-Integrated Scanning Probe Microscopy Analysis for Solid-State Li Ion Battery Interface Performance Evaluation

Funding Agency: Anusandhan National Research Foundation (ANRF)

Principal Investigator: Dr. Pravarthana Dhanapal, Department of Chemistry, IIT Indore

1. Eligibility Criteria

(i) Minimum educational qualification (any one of the following):

Master's Degree in Chemistry or other fields relevant to Chemical Sciences with first division (or as defined below*) from a recognized institution@.

OR

A four-year undergraduate programme (FYUP) in Chemical Sciences or a field related to Chemical Sciences, or in the relevant Department of Engineering/Technology, with first division (or as defined below*) from a recognized institution@.

AND

(ii) Qualifying examination (any one of the following):

A valid and qualified GATE score with a good rank, OR a valid and qualified UGC/CSIR-NET Lectureship (LS), OR a valid qualifying score in UGC/CSIR-NET Category III (admission to Ph.D. only).

The candidate must satisfy both criteria (i) and (ii).

*** Minimum marks/CPI in the qualifying degree:** For UR/EWS/OBC-NCL: 60% aggregate OR first class as specified by the university OR CGPA/CPI 6.0/10 (or equivalent). For SC/ST/PwD: 55% aggregate OR first class as specified by the university OR CGPA/CPI 5.5/10 (or equivalent).

@ Recognized institution: Institutions/universities incorporated by an Act of Parliament or State Legislature in India; institutions declared "Deemed to be University" under Section 3 of the UGC Act, 1956; or institutions with an equivalent qualification recognized by the Ministry of Education, Government of India, AICTE, UGC or AIU, including reputed foreign universities.

2. Desirable Skills

Interest or prior experience in solid-state Li-ion batteries, electrode-electrolyte interfaces, ceramic or halide solid electrolytes, electrochemical impedance spectroscopy, XRD/SEM/XPS, AFM/KPFM/conductive AFM, scanning-probe data analysis. Expertise in every listed area is not required.

3. Age Limit

Maximum 32 years. Age relaxation will be applicable as per Government of India norms for SC/ST/OBC/Women/PwD candidates.

4. Fellowship

For JRF (with GATE/NET qualification): ₹37,000/- per month + HRA (as per norms).

Appointment and fellowship will be governed by the applicable ANRF and IIT Indore norms.

5. Duration and Ph.D. Opportunity

Initially for one year, extendable up to three years based on satisfactory performance. Extension will be subject to approval by the competent authority.

The selected candidate will be strongly encouraged to apply for admission to the Ph.D. programme at IIT Indore, subject to fulfilling the Institute's admission requirements and selection process. Any subsequent Institute Teaching Assistantship (TA) support will be governed by the prevailing Institute rules and approvals.

6. How to Apply?

Interested candidates should email a single PDF containing their CV, academic marksheets and degree certificates, qualifying-examination scorecard/certificate, and a brief statement of research interests and relevant experience to:

Dr. Pravarthana Dhanapal
Assistant Professor, Department of Chemistry
Indian Institute of Technology Indore
Email: dpravarthana@iiti.ac.in

Email Subject: Application for JRF - ANRF

Last Date for Application: 15 December 2026

Only shortlisted candidates will be contacted regarding the interview. The interview schedule will be communicated by email and will be conducted via online. The appointment is subject to verification of eligibility and approval by the competent authority.

Ph.D. admission categories: https://www.iiti.ac.in/admissions/phd_info/sciences/categories