



भारतीय प्रौद्योगिकी संस्थान रुड़की
Indian Institute of Technology Roorkee
DEPARTMENT OF CHEMICAL ENGINEERING

Advt. No.: IITR/ChED/I-PDF/2026/AY

Dated: 4th September 2026

ADVERTISEMENT FOR POSTDOCTORAL FELLOWSHIP POSITION

The Department of Chemical Engineering at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for a postdoctoral position under the mentorship of **Prof. Ashish Yadav** on **“Rational design and development of multifunctional electrocatalysts for simultaneous carbon dioxide valorization and energy storage in batteries.”**

Qualification/Specialization:

Essential qualifications:

- The candidate must hold a PhD in Chemical Engineering, Chemistry, or other relevant allied discipline from a premier and recognized national/international institute.
- The applicant must have published at least 3 research papers as first author in renowned international journals (SCI-indexed) from his/her PhD research.

Desirable qualifications:

- Research work in the domain of carbon dioxide valorization and energy storage in batteries.
- Prior knowledge and experience with density functional theory (DFT)-based computational modeling in the context of carbon dioxide valorization and energy storage devices.
- Relevant expertise and hands-on experience with various physico-chemical (XRD, TEM, SEM, XPS, etc.) and electrochemical (CV, LSV, GCD, EIS, etc.) characterization techniques.

*Candidates who have recently submitted their thesis are also eligible to apply, subject to the condition that they should furnish proof of the award of a PhD degree at the time of interview if shortlisted.

The prospective candidate is expected to have a strong background in the area of carbon dioxide valorization and energy storage in batteries with relevant experimental and theoretical/computational expertise. The candidate should be passionate about working on cutting-edge research, leading to high-impact publications.

Duration and fellowship amount:

The duration of the fellowship will be 2 years. A consolidated fellowship of Rs. 80,000/- + HRA (as applicable) per month for 2 years and a contingency of Rs. 50,000/- per annum will be awarded to postdoctoral fellows. The fellowship may be terminated by either side by giving one month's notice.

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Application procedure

Candidates should clearly mention the Advt. No. and date, along with the title of the position applying for, and send a covering letter, detailed curriculum vitae, list of publications (**with the most relevant publications for the post clearly highlighted**), and a research statement describing past research and plans for future research in the context of the advertised research focus, all compiled into a single PDF file and submitted by e-mail to: ashish@ch.iitr.ac.in.

Last date for submission of application is **4th October 2026 (5:00 PM)**. *Applications received after this date will not be considered.*

*Candidate must mention the PhD thesis title and most relevant publications in their application and cover letter.

Salient points:

- (i) Postdoctoral fellows will be registered as students and may avail facilities of the library, computer center, available hospital facilities, etc. They will be entitled to 2.5 days of leave per completed calendar month. No carry forward for leave will be allowed beyond a calendar year. PDF positions are purely temporary.
- (ii) Screened candidates based on their credentials will only be invited for the interview.
- (iii) Apart from research activities, the candidate will be entrusted with other academic responsibilities, including mentoring UG/PG students, teaching assistantship, and other activities as deemed fit by the mentor.
- (iv) Candidates who have obtained their PhD degree from IIT Roorkee are not eligible to apply.
- (v) Candidate is expected to join the department as soon as the offer letter is released.



(Head of the Department)

Department of Chemical Engineering

प्रोफेसर एवं अध्यक्ष / Prof. & Head
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