

**DEPARTMENT OF CHEMICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Advt. No. ChED/PDF/

Dated:

**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. Shushil Kumar** on "Co-production of green Hydrogen and biochar from biomass"

Last date for submission of application is **15<sup>th</sup> March 2024**

The prospective candidate is expected to have a strong background in the area of pyrolysis/gasification of biomass with relevant experimental skills. The candidate should be passionate about working on cutting-edge research, leading to high-impact publications. Apart from research activities under the above project, the candidate will be entrusted with other academic responsibilities, including mentoring undergraduate and M.Tech students, participating in research discussions, and other activities as deemed fit by the PI.

***Essential qualifications:***

- Ph.D. in Chemical Engineering/Chemistry or other relevant discipline from any of the premier or government institutes of the country

***Desirable qualifications:***

- The candidate should have completed/submitting the PhD thesis in chemical engineering/chemistry in the area of biomass pyrolysis/gasification and has experience in catalysis.
- The candidate is expected to have design and engineering experience.
- Further, experience of operation of reactors, test rigs, product analysis using online GC and similar techniques, and a good understanding of mass/energy balances and chemical reaction engineering are desired.

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

***Duration and Fellowship:***

The duration of the fellowship will be 2 years extendable by one more year. The candidate is expected to join the department as soon as the offer letter is released. A consolidated fellowship of Rs. 55,000 per month for the first 2 years and Rs.60,000 per month for the third year; Contingencies of Rs. 50,000 per annum will be awarded to Post-Doctoral Fellows.

***Application procedure:***

Candidates should apply with a covering letter, curriculum vitae, list of publications along with impact factors, a research statement describing past research experience and future research plans in a single PDF file named "Candidate Name\_Institute of Ph.D. Degree\_Year of Ph.D" and submit by e-mail/post with subject 'Application for PDF\_Advertisement No' to:

*Head,*

*Department of Chemical Engineering,  
Indian Institute of Technology Roorkee,  
Roorkee -247667*

*Email: [head@ch.iitr.ac.in](mailto:head@ch.iitr.ac.in) with a copy to [shushil@ch.iitr.ac.in](mailto:shushil@ch.iitr.ac.in) ; Phone: 01332-284944(office)*

***Notes:***

All the postdoctoral fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of accommodation, hospital, medical insurance scheme, computer centre, library, sports etc.