



भारतीय प्रौद्योगिकी संस्थान रुड़की  
Indian Institute of Technology Roorkee

DEPARTMENT OF CHEMICAL ENGINEERING

Advt. No.: IITR/CH/PDF/23-24/

Dated: August 14, 2023

**ADVERTISEMENT FOR POST DOCTORAL 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. K.K. Pant** focused on “**First-principle design, synthesis and characterization of nickel-ceria-zirconia catalysts for methane tri-reforming from MOF precursors**”.

Last date for the submission of application is **September 14<sup>th</sup>, 2023**. *Applications received after this date will not be considered.*

**Minimum qualification and experience:**

**Essential qualification:**

- The candidate must have PhD in Chemical Engineering/Chemical Technology/Allied disciplines in Engineering and Sciences with a research background in the aforementioned areas with a good publication record.

**Desirable qualification:**

- The prospective candidate is expected to have a strong background in preparing, characterizing, and testing heterogeneous catalysts in a batch/flow reactor and kinetic modelling.
- Knowledge of density functional theory and Monte Carlo simulations is also desirable.

\* 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 at IIT Roorkee if shortlisted

**Duration and fellowship amount:**

The duration of the fellowship will be 2 years extendable by one more year. The Fellowship may be terminated by either side by giving one-month notice. A consolidated fellowship of Rs. 55,000.00 per month for two years and Rs. 60,000.00 for third year (if extended) and a contingency of Rs. 50,000.00 per annum will be awarded to Post-Doctoral Fellows.

**How to apply?**

Candidates should clearly mention Advt. No. and date with title of the position applying for with a covering letter, curriculum vitae, three reference letters\*, list of publications (**highlighted with the most relevant publication(s) for the post**), research statement describing past research and plans for future research in the context of the focus for which the post is being advertised (mandatory) all in a single PDF file by e-mail, to:

The Head,

Department of Chemical Engineering,  
Indian Institute of Technology Roorkee  
Roorkee -247667, Uttarakhand, INDIA

email: [chemical-office@iitr.ac.in](mailto:chemical-office@iitr.ac.in),  
[prateek.jha@ch.iitr.ac.in](mailto:prateek.jha@ch.iitr.ac.in)

Phone: +91-1332-285217 (office)

[head@ch.iitr.ac.in](mailto:head@ch.iitr.ac.in), [prakash.biswas@ch.iitr.ac.in](mailto:prakash.biswas@ch.iitr.ac.in) and

\*Please ask three experts in your research area to their reference letters directly to the above-mentioned email-ids.

**Notes:**

- (i) Post-doctoral Fellows will be registered as students and may avail facilities of hostel accommodation, library, computer center, available hospital facilities etc. Depending upon the availability, they may get shelter accommodation also. 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) The screened candidates will be called for interview.

**About the Department:**

The Department of Chemical Engineering was established in 1963 with an Undergraduate program in Chemical Engineering. The department grew over the years and set very high standards in teaching and cutting-edge research. Over the years, the department has supported the local chemical and sugar industries. The department currently has 24 faculty members and over 500 students. The department pursues research work in the broad areas of chemical engineering such as liquid & solid waste management, green catalysis, sustainable energy, energy storage, process design and intensification, process modeling & simulation, drug delivery, transport & separation processes, process safety, CO<sub>2</sub> capture & utilization, and biochemical and bioprocess engineering. The department runs a center of excellence sponsored by the Ministry of Chemicals & Fertilizers.

(For more details, please visit: <https://ch.iitr.ac.in/>)

**About the Institute:**

IIT Roorkee has its roots in the Roorkee College, which was set up in 1847. It was renamed as the Thomason College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of Civil Engineering practices in the infrastructure development of the country. The irrigation infrastructure in the form of dams and canals, roads and highways, railway, bridges, etc. in the country, all have been the outcome of the engineering education imparted in this, the only engineering institution in the country, at that point of time. It got elevated as the first technical University of the country in 1948 through the University of Roorkee Act, 1947 passed by the United Provinces Legislature. University of Roorkee also became the first institution in the country to offer postgraduate programs engineering and technology in 1955. On September 21, 2001, the University was converted into an IIT by the Government of India through an Act of Parliament and recognized as an Institution of National importance. Roorkee is the entry point of Uttarakhand state. It is on the way to Haridwar from Delhi.

(For more details, please visit: <https://www.iitr.ac.in.>)

  
(Head of the Department)  
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