

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

DEPARTMENT OF CHEMICAL ENGINEERING

Advt. No.: ChED/I-PDF/2026/_____

Dated: 30-July-2026

ADVERTISEMENT FOR POST-DOCTORAL FELLOWSHIP POSITION(s)

The Department of Chemical Engineering at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for the following position(s).

Position:		Institute Post-Doctoral Fellow (IPDF)		Duration:		2 Years (Full time)			
Number:		2		1. IPDF-RPB 2. IPDF-GS		Consolidated Fellowship:		Rs. 80,000 per month + HRA	
						Contingency:		Rs. 50,000 per year	
CODE		PROJECT TITLE						MENTOR	
IPDF-RPB		Development and experimental validation of a physics-informed neural network (PINN) framework for droplet impact on solid surfaces						Prof. Ram Prakash Bharti	
IPDF-GS		Stability of surfactant-laden film flow past a compliant surface						Prof. Gaurav Sharma	
		MINIMUM ELIGIBILITY CONDITIONS							
IPDF-RPB		1. The candidate must hold a Ph.D. in Engineering, Mathematics, Applied Mechanics, Computer Science, or a closely related discipline from a leading, internationally recognized university. 2. Applicants should have demonstrated research expertise in areas such as Computational Fluid Dynamics (CFD), Multiphase Flows, Non-Newtonian Fluids, Interfacial Transport Phenomena, Scientific Machine Learning (SciML), Deep Learning, or related fields. 3. Proven knowledge of fluid mechanics, advanced engineering mathematics, CFD algorithm/code development, and scientific programming (C++/Python) is required. 4. Priority will be given to candidates with experience in open-source CFD solvers (OpenFOAM, Basilisk, Palabos); experience with commercial software (COMSOL Multiphysics, ANSYS) is desirable. 5. The candidate must have a strong track record of 3–4 first-author research publications in high-quality, SCI-indexed international journals from the candidate’s Ph.D. research and co-authored only by the candidate and their Ph.D. supervisor.							
IPDF-GS		1. The candidate must have completed a Ph.D. in Engineering/Mathematics in the area of fluid mechanics. 2. The candidate must have proven knowledge/experience in fluid mechanics, engineering mathematics, code/algorithm development, and scientific programming. 3. Any prior experience in the area of hydrodynamic instabilities, and interfacial flows is desirable. 4. The candidate must have published 2-3 international refereed high-quality SCI (Science Citation Index) journal articles, as a first author from his/her Ph.D. research.							

Continued on the next page...

SALIENT POINTS:

- ✓ The prospective candidate must possess the minimum eligibility conditions mentioned above.
- ✓ The candidate should be passionate about working on cutting-edge research, leading to high-impact publications.
- ✓ Apart from research activities under the above projects, the candidate will be entrusted with other academic responsibilities, including mentoring UG/PG students, teaching assistantship, participating in research discussions, and other activities as deemed fit by the mentor.
- ✓ Candidates who have obtained their Ph.D. degree from IIT Roorkee are not eligible to apply.
- ✓ Shortlisted candidates must produce valid proof of the award of the Ph.D. degree (such as the provisional degree certificate, final degree certificate, or degree award notification) at the time of the interview.
- ✓ The candidate is expected to join the department as soon as the offer letter is released.
- ✓ The postdoctoral fellow will be registered as a student and subject to the guidelines notified via notification No. IITR/Rect.Cell-I/10024/E-5001 dated 21.01.2025 for the facilities/benefits, leave rules, and work progress, etc.

APPLICATION PROCEDURE:

- ✓ Candidates should **apply online** with the following information:
(a) Cover letter, (b) Detailed CV, (c) List of publications from own Ph.D. work, (d) Research statement describing past research experience and future research plans, and (e) Justification of suitability of eligibility and experience for the position.
- ✓ **Submit your application using the following link:**

<https://forms.gle/cu2nshNN33hCqwYd7>
- ✓ Applications submitted through any means other than the above application link will not be considered.
- ✓ **Only shortlisted candidates will be invited by email to appear for the interview.**

Last date for submission of applications:

15-August-2026 at 11:59 PM GMT+5:30

For any queries, contact to:

rpbharti@iitr.ac.in (Prof. Ram Prakash Bharti)

gaurav.sharma@ch.iitr.ac.in (Prof. Gaurav Sharma)

31/07/2026

Acting

Sheshi Khanna
Head, Department of Chemical Engineering
Indian Institute of Technology Roorkee
Roorkee -247667, Uttarakhand, India

E-mail: head@ch.iitr.ac.in