

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Department of Mechanical and Industrial Engineering)

Dated: 26.10.2026

ADVERTISEMENT TO FILL UP POST-DOCTORAL FELLOWSHIP POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the research project(s) under the Principal Investigator (Name: **Prof. Kaushik Pal**) of the **Department of Mechanical and Industrial Engg.** at the **Indian Institute of Technology Roorkee**.

1. Title of project: **Development of Graphene-Aerogel Composite for Space Applications & Exploration of Space Manufacturing in Microgravity.**
2. Sponsor of the project: **IITR.**
3. Project position(s) and number: **Institute Post-Doctoral Fellow (IPDF) – 01 no.**
4. Qualifications: **Ph.D and M.Tech/ M.Sc. (in Material Science/Metallurgy and Materials Engg./Polymer Tech. or Engg./Nanosci. & Nanotech./ Mechanical Engg/ Chemical Engg./Chemistry/ Physics/ Applied Physics/ Applied Science/ E&I/ Instrumentation and Control/ Energy Science). (Candidates must have knowledge of nanocomposite material synthesis and high-temperature materials).**
5. Emoluments: **Rs. 80,000/- per month + HRA.**
6. Duration: **2 years (Full-time).**
7. Job description: **Experimental Studies on composite material synthesis and characterization, aerogel material preparation and sheet fabrication, and any other work assigned by the PI from time to time. It is desirable to have (i) proficiency in nanomaterial and polymer synthesis, modification, and nanocomposite preparation; (ii) experience in material characterization and high-temperature material testing; (iii) experience in space-related work; (iv) writing skills for technical papers and PPT presentations.**
8. Salient Points:
 - ✓ Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply for.
 - ✓ 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/11367/E-5001(218) dated 22.10.2026 for the facilities/benefits, leave rules, and work progress, etc.

9. Application Procedure:

I. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of the Principal Investigator through email, and produce them at the time of the interview:

- Application on plain paper with detailed biodata including chronological discipline of degree/certificates obtained.
- Experience including research, industrial field and others if any.
- Self-attested copies of degree/certificate and experience certificate, if any.
(## Candidate must bring the original degree(s)/certificate(s) and experience certificate(s) at the time of interview/documentation for verification.)

II. Preference will be given to SC/ST candidates on equal qualifications and experience.

III. Please note that no TA/DA is admissible for attending the interview.

The last date for submitting the application to the office of the Principal Investigator is **15.11.2026** by **11.59 PM (GMT +5:30)**.

(Not applicable for walk-in interview)

Only shortlisted candidates will be intimated of the interview date for the online/off-line interview through e-mail.

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E-mail: kaushik@me.iitr.ac.in; pl_kshk@yahoo.co.in


 26.10.2026
 Name and signature of Principal Investigator
Prof. Kaushik Pal

- ❖ Applications submitted through any means other than the above emails will not be considered.
- To be uploaded on the IIT Roorkee website, and a copy may be sent to appropriate addresses by the PI for wider circulation.