

DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Advt. No.: MIED/PDF/ 1934

Dated: 01-Dec-2025

ADVERTISEMENT FOR POSTDOCTORAL FELLOWSHIP (PDF) POSITION

The Department of Mechanical & Industrial Engineering at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for the following position.

Position	Post-Doctoral Fellow (PDF)	Number of position(s)	01
Project Title	Development and Characterization of Biocompatible Metal Alloys for Drug-Delivery and Neurological Applications		
Mentor	Prof. Vidit Gaur, Department of Mechanical & Industrial Engineering, IIT Roorkee		
Duration	Full-time, Two Years.		
Fellowship (per month)	1 st Year	2 nd Year	
	Rs. 80,000	Rs. 80,000	
Contingency	Rs. 50,000 per Year		

ELIGIBILITY:

Essential qualifications:

Applicants must have received their Ph. D. in Materials Engineering/Polymer Engineering/Biotechnology/Biomedical Engineering or any other allied branches. Minimum two research publications in SCI-indexed journals having a high impact factor in the field of Materials Engineering/Biomaterials and Polymer Engineering/Biomedical Engineering or Pharmaceutical science and drug delivery. Only articles in which the applicant is the first author will be considered for screening. The applicant should be able to demonstrate his/her working capabilities with the material characterization tools, including SEM, TEM, XRD, TGA, DSC, and HPLC.

Desirable qualification:

The prospective candidate is expected to have an industrial experience with a strong background in one or more areas within Bio-composite materials, including the synthesis & characterization of nanomaterials, pharmaceutical science/drug delivery, as well as relevant experience in the biomedical field, encompassing in-vitro & in-vivo testing. The candidate should be passionate about working on cutting-edge research that leads to patents, high-impact publications, and innovative products. The candidate should also be comfortable working in an Industry-Academia collaborative environment.

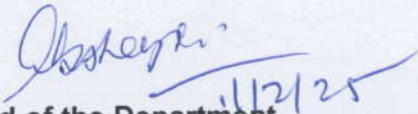
SALIENT POINTS:

- 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 UG/PG students, participating in research discussions, and other activities as deemed fit by the mentor.
- The candidate is expected to join the department as soon as the offer letter is released.
- Post-doctoral 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.

APPLICATION PROCEDURE:

Candidates should apply with a (a) covering letter, (b) detailed CV, (c) list of publications from own Ph.D. work, (d) a research statement describing past research experience and future research plans, (e) Justification of suitability of eligibility and experience for the position, in a single PDF file named "*Candidate Name_Ph.D. Institute_Year of Ph.D*" and **submit by e-mail** with subject "*Application for PDF_Advt. No.*" to the Head, Department of Mechanical & Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee -247667, Uttarakhand, India. E-mail: vidit.gaur@me.iitr.ac.in

Last date for application: 31 December 2025



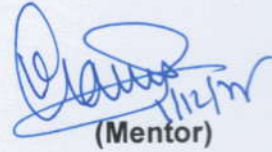
Head of the Department

विभागाध्यक्ष, यांत्रिक एवं औद्योगिक अभियंत्रिकी विभाग

भारतीय प्रौद्योगिकी संस्थान, रुड़की

Head, Department of Mechanical and Industrial Engineering

Indian Institute of Technology, Roorkee



(Mentor)