

DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Advt. No.: MIED/PDF/ 2093

Dated: 12-08-2026

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	Surface Micro-Texturing of Nitinol for Biomedical Applications		
Mentor	Prof. Amit Choudhary, Department of Mechanical & Industrial Engineering, IIT Roorkee		
Duration	Full-time, One year and eleven months.		
Fellowship (per month)	Rs. 80,000.00		
Contingency	Rs. 50,000 per year		

ELIGIBILITY:

Essential Qualifications

- **B.Tech. / B.E.** in Mechanical/Production/Materials or allied branches
- **M.Tech. / M.E. / M.S.** in Manufacturing/Production/Materials or allied branches.
- **PhD** in Manufacturing / Production/ Materials or a closely related domain. The PhD work should be in areas related to laser material processing, surface engineering, micro/nano fabrication, or advanced manufacturing.
- Minimum two research articles as first author in SCI-indexed international peer-reviewed journals.
- Candidates with Master's and PhD degrees from the institute of national or international repute will be preferred.

Desirable Experience

- Hands-on experience with material characterisation techniques such as SEM, EBSD, AFM, XRD, optical profilometry, etc.
- Prior experience working with shape memory alloys, particularly Nitinol (NiTi).
- Exposure to biomedical applications, including biocompatibility, corrosion, and surface functionalization studies.

APPLICATION PROCEDURE:

Candidates should apply with the following documents:

- (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

Compiled 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: head@me.iitr.ac.in (with a copy to amit.choudhary@me.iitr.ac.in)

IMPORTANT POINTS:

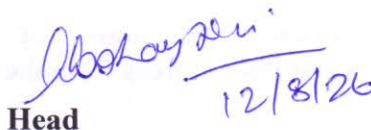
- The candidate should be passionate about working on cutting-edge research, leading to high-impact publications.
- Apart from research activities under the above project, the candidate will be entrusted with other academic responsibilities, including mentoring UG/PG students, participating in research 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.

Last date for application: 24 Aug 2026



Mentor

डा. अमित चौधरी/Dr. Amit Choudhary
सहायक प्राध्यापक/Assistant Professor
यांत्रिकी एवं औद्योगिकी अभियांत्रिकी विभाग
Dept. of Mechanical & Ind. Engg.
भारतीय प्रौद्योगिकी संस्थान रुड़की
Indian Institute of Technology Roorkee
रुड़की/Roorkee-247 667 (उत्तराखण्ड/Uttarakhand)


12/8/26

Head

**Department of Mechanical & Industrial Engineering
Indian Institute of Technology Roorkee**

विभागाध्यक्ष, यांत्रिक एवं औद्योगिक अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान, रुड़की
Head, Department of Mechanical and Industrial Engineering
Indian Institute of Technology, Roorkee