

INSTITUTE INSTRUMENTATION CENTRE

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Advt. No.: IIC/PDF/113/

Dated: 26-10-2026

ADVERTISEMENT FOR POSTDOCTORAL FELLOWSHIP (PDF) POSITION

The Institute Instrumentation Centre 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 of GaN-on-Diamond Heterostructures Using Magnetron Sputtered AlN Interfacial Layers for Advanced Electronic Devices		
Mentor	Prof. Ramesh Chandra, Institute Instrumentation Centre, 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

- PhD in Physics / Applied Physics. The PhD/research work should be in areas related to thin-film fabrication, surface/interface engineering.

Desirable Experience

- Hands-on experience with material characterisation techniques such as Thin Film XRD for crystal quality and Epitaxial growth, XPS, AFM, and Spectroscopic Ellipsometry, etc.
- Prior experience working with RF magnetron sputtering, particularly for the deposition and optimization of AlN thin films.
- Exposure to thin-film fabrication and heterostructure development, particularly involving AlN/diamond and GaN/AlN/diamond systems, including studies of crystallographic orientation, surface morphology, interface quality, optical properties, and film adhesion.

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 . Institute Year of Ph.D*” and **submit by e-mail** with subject “*Application for PDF_Advt. No. IIC/PFD/113* to:

The Head,
Institute Instrumentation Centre,
Indian Institute of Technology Roorkee,
Roorkee -247667, Uttarakhand, India.

E-mail: head@iic.iitr.ac.in (with a copy to ramesh.chandra@ic.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 Centre as soon as the offer letter is released.
- Post-doctoral Fellows will be registered as students and may avail facilities of the library, computer Centre, 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: November 30, 2026

Mentor

**Head
Institute Instrumentation Centre
Indian Institute of Technology Roorkee**