

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Centre for Nanotechnology)

ADVERTISEMENT TO FILL UP PROJECT POSITIONS

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal Investigator (Name: Prof. Ankush Kumar), Centre for Nanotechnology, Indian Institute of Technology, Roorkee.

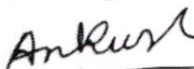
1. **Title of project:**
Intelligent Neuromorphic Multimodal Patch for Adaptive Pain Mapping, Management and Early Diagnostics of Diabetic Neuropathy towards Health 4.0
2. **Sponsor of the project:** CDRC
3. **Project position(s) and number:** Junior Research Assistant (ONE)
4. **Qualifications:**
First class in M.Sc./M.Tech./M.S. (Research) in Electronics Engineering, Electrical Engineering, Biomedical Engineering, Biotechnology, Physics, Nanoscience/Nanotechnology, Materials Science, Computer Science, Artificial Intelligence, Data Science.
5. **Emoluments:**
(Rs. 27,000/- per month for the first two years and Rs. 30,000/- per month for the third year).
6. **Duration:**
36 Months (3 Years)
7. **Job description:**
Development and characterization of intelligent multimodal wearable patches for diabetic neuropathy applications. The work will involve multimodal sensor integration, biomedical signal acquisition and analysis, neuromorphic computing, machine learning based adaptive pain mapping, hardware-software co-design, embedded systems development, and validation of early diagnostic methodologies for Health 4.0 applications.

- Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- Candidates desiring to appear for the Interview should submit their application with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
(i). Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained. (ii). Experience including research, industrial field and others. (iii). Attested copies of degree/certificate and experience certificate.
- Preference will be given to candidates having experience in biomedical signal processing, wearable sensors, embedded systems, machine learning, artificial intelligence, neuromorphic computing, flexible electronics, healthcare data analytics, or related areas.
- Preference will be given to SC/ST candidates on equal qualifications and experience.
- Please note that no TA/DA is admissible for attending the interview.

The selected candidate may get an opportunity for PhD admission after fulfilling institute criteria.
The last date for application to be submitted to the office of Principal Investigator is 25 September by 12 PM.

Please email the application to ankush.kumar@nt.iitr.ac.in. Shortlisted candidates will be intimated about the interview date and interview separately.

Name and signature of Principal Investigator:

 **Dr. ANKUSH KUMAR**
Assistant Professor
Centre for Nanotechnology
Indian Institute of Technology Roorkee
Roorkee-247 667 (Uttarakhand)

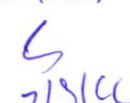
Prof. Ankush Kumar
Centre for Nanotechnology
IIT Roorkee

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Tel: +91-7986301011

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