

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Dept. of Electronics & Communications Engineering

SRIC/06

Dated: 12/03/2025

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: **Dr. Saurabh Khanna**), Dept./Centre: **Electronics and Communication Engineering**, Indian Institute of Technology, Roorkee.

1. Title of project: **Compressed Sensing-Based Ultra-High Resolution Automotive FMCW Radars**
 2. Sponsor of the project: SERB (now ANRF)
 3. Project position(s) and number: Junior Research Fellow (JRF), 01 (one)
 4. Qualifications: **(i) M.Tech in Signal Processing/Communication Systems or equivalent (ii) B.Tech in Electrical Engineering or ECE. In addition, the candidate (UG or PG) must have qualified GATE/CSIR-UGC NET examination, and have a CGPA higher than 7.5 (or $\geq 75\%$) in both of their UG and PG (UG only in case ii).**
 5. Emoluments: Rs. 37000 per month
 6. Duration: For 12 months (Based on performance, duration can be extended up to the remaining duration of project (~15 months). Also, based on performance, the JRF will be given the opportunity to convert to full-time PhD)
 7. Job description: Development and HW/SW prototyping of algorithms for FMCW Radar. Matlab-based programming, C-based embedded programming and scripting. Candidates are expected to have
 - a. Good knowledge of digital signal processing concepts
 - b. Good programming skills (in C language for embedded system programing, and Matlab)
1. Candidates before appearing for interview shall ensure that they are eligible for the position they intend to apply.
 2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email:
 - Cover letter (email) with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Scanned copies of all UG& PG degree/certificate (as applicable) and experience certificate.
 3. Candidate shall provide the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 4. Preference will be given to SC/ST candidates on equal qualifications and experience.
 5. Please note that no TA/DA is admissible for attending the interview.

The last date for application to be submitted by email to the Principal Investigator (sakhanna@ece.iitr.ac.in) is **27 September 2025**.

The date of **online** interview will be conveyed to the shortlisted candidates by email.

Tel: +91-1332-28-4956

Email: sakhanna@ece.iitr.ac.in

SAURABH KHANNA

Name and signature
of Principal Investigator

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

APPROVED


Dean

Sponsored Research & Industrial Consultancy
Indian Institute of Technology Roorkee
Roorkee-247 667 (INDIA)


19/9/25