

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Electronics and Communications Engineering)

Dated: 18/08/2026

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. Karun Rawat**), Department of **Electronics and Communications Engineering, Indian Institute of Technology, Roorkee.**

1. Title of project **Design and Implementation of Advance Techniques in Non-linear Power Amplifiers Optimizing Size, Weight & power (SWAP).**
2. Sponsor of the project: **DRDO, New Delhi.**
3. Project position(s) and number: **Postdoctoral Fellow-01 nos**
4. **Qualifications:** Ph.D. degree in Electronics/Electrical Engineering or a relevant discipline from a recognized university or institute
5. **Desirable Skills:**
 Strong background in EM simulation, RF circuit design, and experience with tools (such as ADS, CST or HFSS, and MATLAB), and Expertise in RF measurements.
 Along with the above, candidate should have at least two research publication in a Science Citation Indexed (SCI) journal or a reputed international conference.
6. **Emoluments:** 80000 pm/- (Consolidated).
7. **Duration:** 1 year or until the completion of project.
8. **Job Description:** The selected candidate will be involved in research and development activities related to the design and implementation of advanced techniques in non-linear RF power amplifiers with a focus on optimizing Size, Weight, and Power (SWaP). The candidate will work on
 - a. Design and simulate RF/microwave circuits and systems, including PAs, RF front-end modules, and passive components. Perform full-wave EM simulations and circuit co-design using industry-standard tools.
 - b. Conduct RF measurements and characterization (S-parameters, load-pull, large-signal analysis, linearity metrics such as ACPR, IMD).
 - c. Develop and implement linearisation techniques (e.g., DPD, feedforward, envelope tracking).
 - d. Collaborate with multidisciplinary teams for system integration and optimization.
 - e. He/She will be required to document research outcomes and publish findings in reputed journals and conferences. Additionally, the candidate will assist in preparing technical reports, project progress updates, and documentation for the sponsoring agency. He/She must adhere to the rules and regulations of the host institute/organization.
9. **Guidelines for the Applicant:**
 - Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 - Application in plain paper with a detailed CV including chronological discipline of degree/certificates obtained.
 - Experience certificates including research, industrial field, and others.
 - Attested copies of degree/certificate and experience certificate.
 - Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 - 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.

Candidates wishing to appear for the interview are requested to submit their applications, along with the required qualification documents, via email to shankhraj.ece@srict.iitr.ac.in
The last date to mail the application is 30.08.2026.

The submitted documents will be used for shortlisting, and only shortlisted candidates will be called for the interview.

All shortlisted candidates will be informed about the interview date via phone or email.

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Email: karun.rawat@ece.iitr.ac.in

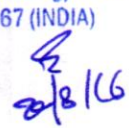

Prof. Karun Rawat
(Principal Investigator)

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

APPROVED


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