



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

Dated: 19/06/2026

**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: **Dr. Abhay Kumar Sah**), Dept. **Electronics and Communications Engineering**, Indian Institute of Technology Roorkee.

Title of the project - Cell free 6G access points				
Sponsor of the project - CDOT				
1	Position	Salary	Duration	Qualifications
	Junior Research Fellow (JRF) (1 Position)	37000 + HRA	6 Months*	Master's or Bachelor's degree in ECE/EE/CSE or equivalent with CGPA above 7.0 (on a 10.0 scale) or percentage greater than 70% aggregate irrespective of category with a GATE** scorecard.
Title of the project - RIS enabled Hybrid RF/VLC System for improving QoE				
Sponsor of the project - TCOE, DoT				
2	Position	Salary	Duration	Qualifications
	Junior Research Fellow (JRF) (1 Position)	37000 + HRA	1 year*	Master's or Bachelor's degree in ECE/EE/CSE or equivalent with CGPA above 7.0 (on a 10.0 scale) or percentage greater than 70% aggregate irrespective of category with a GATE** scorecard.
<p><b>Job description:</b> The JRF will be involved in the research and development activities related to wireless communication systems for 5G/6G networks. It consists of developing baseband algorithms utilizing signal processing and deep learning techniques, and subsequently, prototyping them on an FPGA/USRP board. It will also involve documenting and presenting the research outputs to various forums. The candidate is expected to have</p> <ul style="list-style-type: none"> <li>- Sound knowledge of Linear algebra, Probability theory, Random processes, and Wireless communication.</li> <li>- Strong programming skills in C/C++/Python/MATLAB etc.</li> <li>- Experience in handling RFSoc/MPSoc/FPGA/USRP boards.</li> <li>- Experience in writing papers/patents/technical report etc.</li> </ul>				

Title of the project - Intelligent Scheduler for Cell-Free Massive MIMO based 6G Networks				
Sponsor of the project - ANRF				
3	Position	Salary	Duration	Qualifications
	Research Associate-II (1 Position)	61000 + HRA	1 year*	PhD or having 3 years of research, teaching and designing and development experience after M.Tech in relevant domain with atleast one research paper in Science Citation Indexed (SCI) journal.
<p><b>Job description:</b> The Research Associate (RA) will be involved in advanced research and development activities related to cell-free communication systems for next-generation 5G/6G networks. The role includes developing baseband and scheduling algorithms using signal processing and deep learning techniques, followed by prototyping and real-time implementation on RFSoc/USRP platforms. The RA will also be responsible for documenting research outcomes and presenting them at reputed conferences, journals, and technical forums. In addition to technical contributions, the RA is expected to mentor and supervise junior researchers and students, coordinate with the funding agency, and act as a liaison between the Principal Investigator and the research team to ensure smooth project execution. The candidate is expected to have</p> <ul style="list-style-type: none"> <li>- Sound knowledge of Linear algebra, Probability theory, Random processes, and Wireless communication.</li> <li>- Strong programming skills in C/C++/Python/Linux/MATLAB etc.</li> <li>- Hands-on experience with Experience in handling RFSoc/MPSoc/FPGA/USRP platforms.</li> <li>- Experience in writing papers/patents/technical report etc. and presenting work in reputed forums</li> </ul>				

Understanding of 5G standard and ability to develop, optimize, and experimentally validate algorithms for 5G/6G systems, including SDR-based implementations			
- Capability to mentor students, coordinate with external agencies, manage project deliverables, and support collaborative research and development			
Position	Salary	Duration	Qualification
Project Assistant (1 Position)	27000 + HRA	1 year*	Graduation (B.A./B.Sc./B.Com., etc.)
<p><b>Job description:</b> The Project Assistant (PA) will support the smooth execution of project activities by handling data entry, administrative, and operational tasks. The role involves providing clerical assistance, supporting field-related activities, and ensuring proper management of laboratory equipment and facilities. The PA will also assist the research team in maintaining records, organizing documentation, and coordinating routine project-related tasks. The candidate is expected to have</p> <ul style="list-style-type: none"> <li>- Working knowledge of computers and office tools</li> <li>- Proficiency in MS Word, Excel, and email communication</li> <li>- Basic organizational and coordination skills</li> </ul>			

\* Can be extended up to project duration based on performance reviews

\*\* Bachelor's or master's from IITs, NITs, IIITs, and any other CFTIs with a CGPA 8.0 and above on 10 scale point are exempted from the requirement of GATE/NET.

### Application Process

1. Candidates before applying for the position shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should fill the MS Form application either using the URL <https://forms.gle/H3ywTFx3e3UkMvc67> or scanning the QR code at the top.
3. Candidate should also email the following documents to the program manager (6g-vigyan@ece.iitr.ac.in) with subject as "Application for Project Position" and the file names as FirstName\_LastName\_DocName:
  - Latest CV including chronological discipline of degree/certificates obtained and work experience (if any).
  - Scanned copies of all the degree and experience certificates in a single PDF files.
4. The interview may be conducted in Hybrid mode and the candidate may be asked to show the original degree(s)/certificate(s) and experience certificate(s) at the time of interview/joining for verification.
5. Preference will be given to SC/ST candidates on equal qualifications and experience.
6. Please note that no TA/DA is admissible for attending the interview.

**The last date for application to be submitted to the email ID: 6g-vigyan@ece.iitr.ac.in is 30/06/2026 by 11:59 PM. The interview date will be conveyed after shortlisting.**

**It will be a rolling advertisement until the positions are filled.**

Tel: 01332-28-4943

Email: abhaysah@ece.iitr.ac.in

**APPROVED**

*Abhay Kumar Sah 19/6/26*

**Dr. Abhay Kumar Sah**  
Principal Investigator

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

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Sponsored Research & Industrial Consultancy  
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*[Signature]*  
24/6/26

**ABHAY KUMAR SAH**  
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