

No.: Advt/ IITT/CSRC/26-27/08

Date: 16-07-2026

Applications are invited from eligible Indian nationals for the post of **Junior Research Fellow** in a time bound **ANRF sponsored project** undertaken in the Department of Electrical Engineering and Department of Physics.

<u>Temporary Position</u>	Junior Research Fellow
Essential Qualification	• B.S.-M.S. 5-year Integrated in Physics/Mathematics or 2-year M.Sc. in Physics /Mathematics or B.S./B.Tech./B.E. in Electronics and Communication Engineering/Engineering Physics/ or M.Tech./M.E. in Electronics and Communication / with minimum of 60% marks or equivalent CGPA • Must have a valid GATE/CSIR-UGC NET including LS and/or JRF and/or valid JEST score • Relaxation of marks: 55% for OBC/EWS, 55% for SC/ST/PWD (equivalent CGPA)
Project No.	ELE2627001ANRFPARM
Project Title	Fundamental Capacity limit of Communication in Multi-User networks with quantum and no-signalling correlations
Sponsoring Agency	Anusandhan National Research Foundation
No. of positions	01
Consolidated monthly Salary	INR 37000/- + HRA as applicable
Principal Investigator (IITT)	Dr. Parthajit Mohapatra Department of Electrical Engineering
Co-Principal Investigator (IITT)	Dr. Aravinda S Department of Physics
Department	Electrical Engineering & Physics
Project Duration	3 years
Tenure of Assignment	Initially for one year, extendable up to one additional year, subject to satisfactory performance and the availability of project funding. Upgradation to SRF possible after 2 years subject to satisfactory performance and review by expert committee.
Brief Project Description and Nature of Work	Join an exciting research project at the intersection of quantum information theory and communication networks. The project seeks to develop the theoretical foundations of scalable multi-user quantum communication by investigating the fundamental

	capacity limits of quantum networks assisted by multipartite entanglement and more general no-signalling correlations. The research combines tools from classical and quantum information theory to advance the design principles of future quantum communication networks and the quantum internet.
Desired Experience	Coursework in Classical Information Theory, Quantum Information Theory, Quantum Computation, or related areas is desirable. Prior research or project experience in these related areas will be an added advantage.
Age Limit	Not more than 32 years
Last date of application	31-07-2026
Application Link	https://forms.gle/o9gxSQC6FXLjD9V18

Eligible candidates must attach a detailed CV specifying their qualifications and experience, along with scanned copies of their mark sheets and certificates from X class to date. A brief statement of purpose (Why are they interested in this project topic?) is also attached to the application link. Essential qualifications will be relaxed for the outstanding candidate.

The shortlisted candidates will be informed by Email only. Selection will be based on the qualification, experience, and an in-person/online interview at IIT Tirupati. No TA/DA shall be paid to candidates appearing for an interview online or offline. The interview date will be notified to the shortlisted candidates by Email. For any queries, send mail to csrc_recruitment@iittp.ac.in

IIT Tirupati also reserves the right to discontinue the position with 1-month notice if the performance is not satisfactory

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