



भारतीय प्रौद्योगिकी संस्थान इंदौर

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IIT Indore

Date: 23<sup>rd</sup> June 2025

## **Interview for JRF Position under ANRF Sponsored Project**

Applications are invited from motivated and eligible candidates for the position of **Junior Research Fellow (JRF)** in a Anusandhan National Research Foundation (ANRF) funded research project entitled “Design and Analysis of causal AI-driven protocols for extended reality services over next-generation networks”.

### **Scope and Objectives of the Project:**

- Develop a test bed to evaluate, implement and conduct research on effect of network protocols for extended reality applications.
- Derive and propose causal models using a combination of data driven approaches and theoretical domain knowledge from network calculus and queuing theory.
- Develop and implement dynamic resource allocation policies using causal models and AI with provable guarantees on performance
- Benchmark, evaluate and standardize best practice principles for AI-integrated protocol design for next-generation networks and dissemination of involved techniques in form of high impact research papers and patents.

**Duration:** Initial appointment is for one year, which is extendable for two more years based on performance. The appointment is co-terminus with the project.

**Emolument:** The amount of JRF fellowship will be as per ANRF norms.

### **Eligibility:**

**Essential Qualification:** BE/B.Tech. or equivalent in relevant branches of Engineering/Technology like Electrical/Electronics Engineering (EE), Electronics & Communication Engineering (ECE), Information & Communication Technology (ICT), Engineering Physics, etc. or Master's degree in relevant branches of Engineering/Technology like EE, ECE, ICT, Electronics, Applied optics, Optical communications, etc. with a first division as awarded by the awarding institute/university. **Note that GATE qualification is mandatory for getting enrolment in PhD program at IIT Indore.**

**Desirable Skills:** Strong background in probability and statistics, optimization and machine learning

**Deadline to apply:** 9<sup>th</sup> July 2025

Application Form (Google form link): <https://forms.gle/spc8EJ3W7Nnc2K368>

In case of any queries, please email to Dr. Dibbendu Roy ([droy@iiti.ac.in](mailto:droy@iiti.ac.in))