



INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: R&D/1227/MQR/497

DATED: 16.07.2025

Project No: R&D/SP/PHY/MQR/2024-25/1227

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. (a) Name of the temporary assignment : Junior Research Fellow (JRF)
(b) Number of Post : 02
(c) Duration of the Post : Initially one year (may be extendable based on satisfactory performance)
2. Name of the temporary research project : A multimode quantum repeater network for entanglement distribution based quantum communication.
3. Name of the sponsoring Agency : National Quantum Mission, DST, Technology Bhawan, New Mehrauli road, New Delhi 110016
4. Consolidated Fellowship/Salary : Rs. 37,000/- per month + HRA as per norms
5. Qualifications & Experience : [M.Sc](#) /M.Tech/M.E./M.Phil./B.Tech./B.E.

The Quantum Optics Experiment Lab is at the forefront of research in **slow light phenomena using atomic media**, including alkali vapors and ultracold atoms. As a key participant in India's prestigious **National Quantum Mission (NQM)**, the lab is undertaking an ambitious project to develop a **multi-node quantum repeater network**. This initiative is crucial for advancing entanglement distribution-based quantum communication, aiming to lay the foundation for next-generation secure communication technologies.

The selected JRFs will have the unique opportunity to contribute to this national mission, collaborate with leading institutions, and gain hands-on experience in state-of-the-art quantum optics and atomic physics experiments. Candidates passionate about experimental physics and eager to work on transformative quantum technologies are strongly encouraged to apply.

The candidate desirably should have M.Sc./M.Tech. degree with a minimum CPI of 6.5 out of 10 or 60% of marks with CSIR/UGC-NET (Equivalent qualification/fellowship) or valid GATE score. The upper age limit for applying for the JRF position shall be 28 years (M.Sc./B.Tech./B.E.) and 32 years (M.Tech./M.E./M.Phil.). Relaxations for SC/ST/OBC/women/PD will be given as per the GOI rules. Working/research experience in the field of Quantum Optics and Light-matter experiment and studied physics as a Major subject in the UG/PG degree will be given preference.



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Last date for receiving applications : 31/July/2025

Interested and eligible candidates may appear for the **WRITTEN TEST/WALK-IN INTERVIEW** on **13/08/2025, 10:30 am** at Dr. Raghavan K Easwaran, Dept. of Physics, IIT Patna, Bihta, Patna – 801106 with updated resume along with the original copies of all supporting documents (certificates, mark-sheets, and degrees). No TA/DA is admissible for appearing in the interview.

For any query contact Investigator(s) : **Dr. Raghavan K Easwaran, Dept. of Physics, IIT Patna, Emails: raghavanke@iitp.ac.in** Tel.: 0612-3028029.

Assistant Registrar

Copy to:

1. Associate Dean, R&D, IIT Patna
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Form No: RD-M003

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FORMAT OF APPLICATION FOR 'JUNIOR RESEARCH FELLOW'

Name & Address Including email id and Phone no. (for Correspondence)	Category (GEN/OBC/SC/S T/PD)	DOB dd/ mm/yy	Professional Exam. (GATE/CSIR-NET, etc) & Validity
NAME IN CAPITAL Address: Phone: Email:			
Educational Qualification			
Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI
	10 th Class		
	12 th Class		
	Bachelors (B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters (M.Sc/M.Tech/M.E/MCA/ MA) or equivalent		

Qualifying degree	Degree/ major/Specialization
(B.Sc/B.Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
Others	

Signature of applicant

Date:

Place: