



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

ADVERTISEMENT NO: R&D/1227/MQR/495

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 : Research Associate 1 (RA 1)
(b) Number of Post : 01
(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. 58,000/- per month + HRA as per norms
5. Qualifications & Experience : PhD in Physics/ Cold atoms Physics/Quantum Optics/Electromagnetically Induced Transparency (EIT) (Experimental)

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 Research Associate 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 should have a PhD degree with very good academic performance. The upper age limit for applying for the Research Associate 1 position shall be 35 years. Relaxations for SC/ST/OBC/women/PD will be given as per the GOI rules. Working/research experience in the field of Cold Atom Physics/ Quantum Optics and Light-matter experiment will be given preference.



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Last date for receiving applications : 31/07/2025

Interested and eligible candidates may appear for the **WRITTEN TEST/WALK-IN INTERVIEW** on 12/08/2025 at 10:30 am 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
2. All other IITs/IITBHU/Universities
3. Advertisement file
4. Project file



Form No: RD-M003

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FORMAT OF APPLICATION FOR 'RESEARCH ASSOCIATE'

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: