

Employment Notice (ANRF/ARG/2025/004617/PS) No. 05 -2026

Harish-Chandra Research Institute, an Autonomous Institute under the Department of Atomic Energy, Govt. of India invites applications for a Junior Research Fellow (JRF) / Project Associate-I position to work with Prof. Ujjwal Sen in the broad area of quantum networks and quantum technology. This position is supported by the Anusandhan National Research Foundation (ANRF) Advanced Research Grant (ARG) project titled “*Engineering Quantum Network for Scalable Quantum Technology*”, a collaborative project involving Harish-Chandra Research Institute (HRI), Prayagraj; Birla Institute of Technology (BIT) Mesra, Ranchi; and Indian Institute of Technology (Indian School of Mines) Dhanbad.

Name of the Post	Number of Post	Essential Qualification
Junior Research Fellow (JRF) / Project Associate-I	01 No.	Master’s degree in Physics / Mathematics with interest in Quantum Information Science and Quantum Networks. NET / GATE: Candidates selected through CSIR-UGC NET (including Lectureship) or GATE, or through a national-level examination conducted by Central Government Departments / Agencies / Institutions (such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER etc.) will be engaged as JRF. Candidates without NET / GATE are also eligible and will be engaged as Project Associate-I at lower emoluments (see Salary).

Desirable Experience:

- Familiarity with quantum information / quantum optics is beneficial, but not mandatory.
- Programming and numerical skills (e.g., C++, Python, Mathematica, MATLAB) are preferred.

Tenure of Appointment: The appointment will initially be for a period of one year, extendable up to the end of the project (03-Jun-2029) or a maximum period of 36 months, whichever is earlier, based on performance and mutual agreement with Prof. Ujjwal Sen, subject to the availability of project funds. The position is co-terminus with the duration of the project.

Salary and PhD Registration: The salary will be paid by Harish-Chandra Research Institute (HRI), Prayagraj, where Prof. Ujjwal Sen, the lead Principal Investigator, is based. The selected candidate will work with the research groups from the three participating institutions, namely Harish-Chandra Research Institute (HRI), Prayagraj; Birla Institute of Technology (BIT) Mesra, Ranchi; and Indian Institute of Technology (Indian School of Mines) Dhanbad. The PhD registration of the candidate will be done at **BIT Mesra**, subject to the institute’s admission and registration rules. For the PhD, Dr. Anindita Bera (BIT Mesra) will be the Guide and Prof. Ujjwal Sen (HRI) will be the Co-Guide.

Nature of work:

- Research on engineering quantum networks for scalable quantum technology.
- Collaboration and discussion with the research groups at HRI, BIT Mesra and IIT (ISM) Dhanbad.
- Pursuing PhD research towards a thesis at BIT Mesra, under the guidance of Dr. Anindita Bera (Guide) and Prof. Ujjwal Sen (Co-Guide).

Salary: The selected candidate shall be paid monthly emoluments, subject to compliance with all the criteria, as per DST Office Memorandum No. DST/PCPM/Z-06/2022 dated 26.06.2023 (adopted by SERB vide OM No. SB/S9/Z-

06/2019 dated 01.02.2024) for JRF / SRF and ANRF Office Memorandum No. ANRF/OM/N-01/2024 dated 14.10.2024 for Project Associate, as follows:

Category of candidate	First two years	Third year
With CSIR-UGC NET (including Lectureship) / GATE, or selected through an equivalent national-level examination	JRF: Rs. 37,000/- per month	SRF: Rs. 42,000/- per month (on successful external assessment)
Without NET / GATE	Project Associate-I: Rs. 30,000/- + HRA per month	Project Associate-II: Rs. 33,000/- + HRA per month

- Upgradation from JRF to SRF requires a successful external assessment by BIT Mesra (the institution where the fellow is enrolled for PhD) after completion of two years. An annual satisfactory assessment is mandatory to continue the fellowship during the SRF period.
- DA is not admissible. HRA is admissible as per the applicable Central Government norms (for JRF / SRF, where hostel accommodation is not provided).
- The project does not cover any medical benefit.
- Leave rules will be as per the institute / ANRF norms.

General Instructions:

Interested persons may send their detailed Curriculum Vitae before **12/11/2026** via email only to argrecruitment@hri@gmail.com and please write 'Application for JRF / Project Associate position under ANRF project' in the subject line. Interview letter to the selected persons will be sent via email only and the interview date will be informed to the shortlisted candidates only through e-mail.

HRI has the right to cancel this advertisement without assigning any reason and the decision taken by Director-HRI shall be final and binding.

Sd/-

Prof. Ujjwal Sen
Principal Investigator, HRI