

## **Employment Notice (DST/FFT/NQM/QSM/2024/3(C)) No. 01-2025**

Harish-Chandra Research Institute, an Autonomous Institute under the Department of Atomic Energy, Govt. of India invites applications for a Post-doctoral Fellow (PDF) position in the group of Dr. Sayan Choudhury to work in the broad areas of Quantum Many-body Physics and Quantum Information Science with a particular focus on Quantum sensing and metrology. This PDF position will be supported by the National Quantum Mission as part of a technical group (TG) on Quantum Sensing aiming to develop field deployable quantum-enhanced sensors of magnetic fields. The appointment will be initially be given up to March 31, 2025 coinciding with the seed grant of NQM, but it is expected to be extended up to March 31, 2026 subject to the final disbursement of the project funds. Following the first year, the position can be extended based on performance and mutual agreement. The position may be transferred, in case the coordinator i.e. Dr. Sayan Choudhury takes a transfer elsewhere.

**Post-Doctoral Research Fellow (PDF):** 01 post

**Eligibility criteria:** Candidate must have a Ph.D. degree in Theoretical Physics with specialisation in Quantum Many-body Physics and/or Quantum Information Science. Familiarity with quantum metrology is beneficial, but not mandatory. Expertise in standard numerical techniques such as ED and DMRG is highly preferred.

**Upper Age limit:** Candidate should be less than 35 years as on last date of filling of application form.

**Salary:** Consolidated salary (a) Rs. 58,000/- per month for RA-1, (b) Rs. 61,000/- per month for RA-2, and (c) Rs. 67,000/- per month for RA-3. The PDF may be fixed at one of the pay levels depending on qualifications and experience. The level at which a fellow will be placed will be decided by the interview selection committee. The House Rent Allowance will be provided extra as per rules.

Interested persons may send their detailed Curriculum Vitae with two recommendation letters before 09-03-2025 via email only to sayanchoudhury@hri.res.in and please write **'Application for PDF position under NQM'** 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.

*Sayan Choudhury*

Project Coordinator, HRI