

No. Advt/ IITT/CSRC/26-27/11

31-08-2026

Applications are invited from eligible Indian nationals for the post of **Research Associate** in a time bound **National Quantum Mission (NQM) sponsored project by the Department of Science and Technology (DST)** undertaken in the Department of Physics.

<u>Temporary Position</u>	Research Associate
Essential Qualification	• PhD in Quantum Computation (The candidates having Ph.D. in Theoretical Physics, Applied Mathematics, Mathematics, Computer Science and Engineering, or a closely related discipline may also apply if having expertise in Quantum computing domain) • Candidates who have submitted their Ph.D. thesis in a relevant area (as mentioned above) are also eligible to apply.
Project No	PHY2627003DSTXARAV
Project Title	Quantum Machine Learning: Reservoir Computing and PDE Solvers
Sponsoring Agency	National Quantum Mission (NQM), Department of Science and Technology (DST)
No. of positions	01
Consolidated monthly Salary	INR 58000/- + HRA as applicable
Principal Investigator (IITT)	Dr. Reetesh K Gangwar , Dr. Aravinda S Department of Physics
Department	Physics
Project Duration	3 years
Tenure of Assignment	Initially for one year, extendable by up to three years, subject to satisfactory performance and the availability of project funding.
Brief Project Description and Nature of Work	Join an exciting research project at the intersection of quantum computation, theoretical physics and numerical methods. The project seeks to develop and investigate Quantum algorithms for Partial Differential Equations (PDEs) , exploring how quantum computation can be leveraged to efficiently solve PDEs arising in science and engineering. The research combines tools from numerical analysis and quantum information/computation to advance the design of quantum-based PDE solvers.
Desired Experience	Strong background in theoretical physics and/or quantum computing/quantum information. Good understanding of linear algebra, differential equations, numerical methods, probability/statistics, and optimization.

	Strong programming skills in Python and experience with scientific-computing libraries such as Qiskit, NumPy, SciPy, PyTorch/JAX, or equivalent. Demonstrated experience in numerical modelling and simulation of physical systems, preferably involving ordinary or partial differential equations. Ability to independently formulate, implement, test, and benchmark quantum computational algorithms. Good research publication record and ability to communicate research results through scientific papers and presentations.
Age Limit	Not more than 35 years (Relaxation will be given reserved category candidates as per institute norms)
Last date of application	14-09-2026
Additional Note	The nature of the project is multiinstitutional and candidate may get opportunity to work along the partner institutes (IISER Pune, IIT Kanpur, IIT Kharagpur, AFMC Pune) of the project
Application Link	https://forms.gle/JKeh3TugCdnqWRGT6

Eligible candidates must attach a detailed CV specifying their qualifications and experience, along with scanned copies of their mark sheets and certificates from X class to date. A brief statement of purpose (Why are they interested in this project topic?) should also be attached to the application link. Essential qualifications will be relaxed for the outstanding candidate.

The shortlisted candidates will be informed by email only. Selection will be based on the qualification, experience, and an in-person/online interview at IIT Tirupati. No TA/DA shall be paid to candidates appearing for an interview online or offline. The interview date will be notified to the shortlisted candidates by email. For any queries, send mail to csrc_recruitment@iittp.ac.in

IIT Tirupati also reserves the right to discontinue the position with 1-month notice if the performance is not satisfactory

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