

Date: 11-06-2025

Quantum Computing (Programming & Simulation) Internship at the I-HUB Quantum Technology Foundation, IISER Pune

The I-HUB Quantum Technology Foundation, IISER Pune is inviting applications for 3 months internship in Quantum Computing (Programming & Simulation) domain. It is an exciting opportunity to simulate real-world Quantum problems at scale on the accelerated (GPU enabled) system. IHUB QTF in partnership with NVIDIA is introducing a challenge 'Challenge to be Quantum Ready', in this challenge we will provide selected teams with the access to NVIDIA GPU's upto 36 Qubits.

Duties & Responsibilities:

- The intern's primary role (not limited to) to enable and support selected teams from the recently announced "Challenge to be Quantum Ready", with Nvidia (more details about the challenge) on NVIDIA GPU enabled system.
- The intern/s will provide technical support in problem formulation, simulation on Nvidia GPU enabled system, execution, optimization and performance analysis.
- Responsibilities includes, enable shortlisted researchers teams in formulation, writing, debug and profile the Python enabled CUDA-Q code. Interns will also liaise with the I-HUB QTF and NVIDIA teams for issue (if any) resolution and documentation.

Advt. No. 08/2025/I-HUB QTF/Rect. Date - 11.06.2025

I-HUB QUANTUM TECHNOLOGY FOUNDATION

Dr. Homi Bhabha Road, NCL Colony, Pashan, Pune 411008, Maharashtra, India.

+91 20 25908647 | communications@quantech.org.in | www.quantech.org.in

CIN: U73100PN2021NPL199577

Requirements:

- Open to both undergraduate (UG) and postgraduate (PG) students
- The intern/s must have strong proficiency in Python, a foundational understanding of quantum computing/technology, and familiarity with Nvidia GPUs, CUDA-Q, Docker/Containers.
- Good communication skills, ability to work independently, problem-solving skills and research aptitude are essential.
- Relevant experience in quantum computing & GPU's is plus.

Honorarium:

This internship will be for 3 months starting from June 3rd week 2025 and includes one-time honorarium of Rs. 15,000 at the end of term, contingent upon attendance and contribution to the requirement.

Application:

Fill this form to apply: <https://forms.gle/CQ8JZrkaQHTe4CoE9>

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**Dr. Kunj Tandon
CEO**