



Date: 08.07.2026

**Applications are Invited for Admission to the
Collaborative PhD Programme between
BITS Pilani and IISER Tirupati**

Applications are invited for admission to the Collaborative PhD Programme between BITS Pilani and IISER Tirupati on the project “**Quantum Simulation of Thermalization Dynamics in Quantum Many-Body Systems and Lattice Gauge Theories**” under the supervision of **Prof. Indrakshi Raychowdhury (Supervisor), BITS Pilani, K K Birla Goa Campus** and **Prof. Sambuddha Sanyal (Co-supervisor), IISER Tirupati**.

Candidates with a strong academic background in Physics and an interest in quantum many-body physics, computational methods, quantum computation and quantum simulation, theoretical understanding of fundamental physics are especially encouraged to apply.

The project aims to advance understanding of fundamental physics by expanding the boundary of computational capability. The technical scope of the project comprises the development and application of novel quantum algorithms towards this goal, followed by implementation on quantum hardware and benchmarking via state-of-the-art classical computation.

Eligibility: As per BITS Pilani Ph.D. admission norms:

M.Sc./B.E./B.Pharm. or an equivalent degree (a minimum of 60% aggregate)*

Deserving candidates must meet the requirements of the PhD qualification process as per BITS Pilani norms.

Candidates with CSIR-UGC NET/JRF, GATE, JEST, or equivalent qualifications will be given preference.

Fellowship: ₹ 37,000 per month + HRA as per rule

Apply here: <https://forms.gle/e9Vep9kXgAb9Qjs77> by **20th July, 2026**.

The short-listed candidates will be informed through email for an online interview between 21-27 July, 2026 .

