

B. Prasanna Venkatesh

Associate Professor

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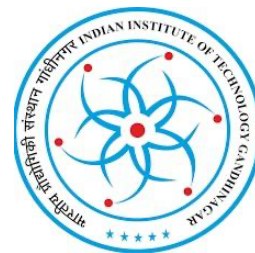
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Project Assistant (Internship) position on Quantum Sensing (Theory)

Indian Institute of Technology Gandhinagar (IITGN) invites applications for Research Associate position in the group of B. Prasanna Venkatesh to work in the broad areas of theoretical quantum optics, ultracold atomic physics with particular focus on Quantum Sensing with ultracold atoms in cavities.

Job Description: The research interests of the group are in the areas of quantum optics, ultracold atomic physics, and quantum thermodynamics. This research associate 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. Thus, a significant part of the work will involve collaboration and discussion with experimentalists that are part of the TG.

Essential Qualification: B. Sc degree in Physics or 3 years Diploma in Engineering & Technology

Desired Qualification: While a background in quantum sensing is not necessary, enthusiasm to work on problems close to experiments is important. Expertise in standard numerical methods used for quantum optics/ultracold atoms is also preferred. Final year students of MSc/4 year B.Tech programmes/BS-MS programmes looking for project positions are encouraged to apply. Candidate should have secured 60% or equivalent grade in UG and PG if completed, and 55% or equivalent grade in class 10th and 12th.

Duration: The appointment will be from the date of joining to March 31, 2026. Following the first year, the position can be extended based on performance and mutual agreement.

Remuneration: Salary of 20000 INR per month + 8% HRA.

Application Procedure: Candidates should send their applications **via e-mail with subject line NQMPA-July2025** to B. Prasanna Venkatesh (prasanna.b@iitgn.ac.in). The following documents must be sent as a **single pdf attachment** to the email:

1. Current CV and Transcripts/Marksheets of UG/PG. CV can include the name and email addresses of two potential referees if available

Last date of application: 11 days from the day advertisement is displayed on IIT Gandhinagar webpage. Priority will be given to those applying before deadline but application will be open until the position is filled.

Queries may be directed to B. Prasanna Venkatesh (prasanna.b@iitgn.ac.in).