

Advertisement No. 2025/35

Applications are invited for two positions of **Project Associate** to work for the **National Quantum Mission Project** "Field deployable quantum enhanced hybrid sensor with integrated photonic platform". (PI: Dr. Sourav Dutta) in the **Department of Nuclear and Atomic Physics, TIFR Mumbai**.

| Post | Qualification | Job Requirement | Age Limit and Fellowship | Nature & Period of Post |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Associate | <p>Essential:</p> <ul style="list-style-type: none"> • Master's Degree in Physics or a related discipline with a minimum 60% marks. <li style="text-align: center;">OR • Bachelor's Degree in Engineering or Technology with a minimum 65% marks. <p>Desirable:</p> <ul style="list-style-type: none"> • M.Sc. coursework with courses on atomic physics and quantum optics. • B.Tech. / B.E. coursework in electronics, electrical, analog & digital systems, microprocessors or optics. • Qualified in any national level test such as GATE, NET, JEST, TIFR, etc. <p>Experience: Some hands-on experience in electronics, microprocessors or optics is desirable.</p> | <p>The Project Associate will be involved in the various tasks, such as</p> <ul style="list-style-type: none"> • Designing of optical setup for laser cooling of atoms • Laser spectroscopy • Electronics for lasers, control circuits, designing and populating PCBs • Development of the DAQ and related electronics for the setup • Recording and analysing data from the vapor cell setup and ultracold atom setup • Documentation of experimental results and preparing reports | <p>Age: Preferably below 35 years on date 01.07.2025</p> <p>Fellowship: Depends on experience and qualification of National Level Test:</p> <ul style="list-style-type: none"> (a) No experience & not qualified valid test: Rs. 25,000 + HRA (b) No experience & qualified valid test: Rs. 31,000 + HRA (c) 2-year experience & not qualified valid test: Rs. 28,000 + HRA (d) 2-year experience & qualified valid test: Rs. 35,000 + HRA (e) 4-year experience in a related field: Rs. 42,000 + HRA (f) 8-year experience in a related field: Rs. 49,000 + HRA | Temporary appointment for a period of two year with a possibility of extension for three more years. The extension is subject to satisfactory performance. |

Method of Selection: Personal Interview

Send a detailed CV including educational qualifications (in the format given below), rank in qualifying national level entrance tests and awards; a one-page write-up of work experience/interest. CV should include date of birth, present affiliation and occupation, address, contact number, and email I.D. Also, give the names and addresses of two referees who are familiar with your recent academic activities.

| Degree / Test | Year | University / Agency | Subjects | Marks Obtained / Rank / Score | Remarks |
|---------------------|------|---------------------|----------|-------------------------------|---------|
| S.S.C. | | | | | |
| H.S.C. | | | | | |
| B.E./ B.Tech/ MSc | | | | | |
| National Level Test | | | | | |

LAST DATE FOR RECEIPT OF APPLICATIONS: 20 JANUARY 2026

Send the application to Dr. Sourav Dutta via email to sourav.dutta@tifr.res.in with subject line as "Application for Project Associate position (Name of Candidate)".

