

Institute of Physics, Bhubaneswar

APPLICATIONS INVITED FOR TWO POSITIONS

Applications are invited for *One Research Associate* and *One Project Assistant/JRF* to work in a DST funded project in the QuEST program under the supervision of Prof. Pankaj Agrawal, Institute of Physics, Bhubaneswar, 751005, India.

Essential and desirable qualifications:

- **Research Associate** : The applicant must have obtained Ph.D. in Physics/Mathematics from a recognized University and with expertise in Quantum Information and Quantum Foundations. A post-doctoral experience of 1 or 2 years would be desirable.
- **Project Assistant/JRF** : The applicant must have First Class M.Sc in Physics/Mathematics from a recognized University. The candidates who have qualified CSIR/UGC NET/GATE/JEST will be preferred. It is desirable that the candidate has demonstrated experience in some of the following areas: Quantum Mechanics, Quantum Information theory etc.

Duration : Initial appointment of the candidate will be for 1 year, extendable on annual basis depending on the performance of the candidate, up to two years or upon termination of the project, whichever occurs earlier. The project position is co-terminus with the above project.

Fellowship : As per IOP and DST guidelines.

Project Description : The main focus of this project will be to study different Quantum Information processing protocols, developing new techniques and understanding the role of correlations. Study of Nonlocality and different device independent certifications will be other goals.

Nature of Study : Bell Nonlocality in multipartite setting and higher dimensions, Entanglement theory, Coherence, Self-testing.

Starting date : 20th of June could be a tentative starting date. Exact date is negotiable.

Applications for Project Assistant/JRF should include complete bio-data (with details of qualification i.e. examination passed, year, division, percentage of marks from 10th Board onwards, and photocopies of mark sheets/testimonials/certificates) along with MSc certificate should be sent by email to agrawal@iopb.res.in. Along with biodata, applicant should also send a Note on Experience, where he/she can provide information about any desirable/preferable experience for this project that they may have. For the Research Associate position, bio-data, research experience and two recommendation letters should be included. All documents should be sent to agrawal@iopb.res.in before the last date.

Last Date of Receipt of complete application and all recommendation letters : **17th June, 2019.**

Shortlisted candidates will be intimated by email and called for presentation-interview at the Institute of Physics, Bhubaneswar or by skype. No TA/DA will be provided for coming for presentation and interview.

Accommodation inside the campus is subjective to the availability. HRA would be given at applicable rate for the candidates staying outside the campus.