

RAMAN RESEARCH INSTITUTE

Announcement of opportunity for exciting research in Experimental Quantum Communications

Raman Research Institute invites applications from individuals for Post-Doctoral position. The candidates must possess excellent and consistent academic record and core competence and research aptitude in Physics, especially desirable in the areas of Quantum Physics and Optics.

The Quantum Information and Computing (QuIC) lab of RRI has recently embarked on an international collaboration titled "A low cost, light, compact source for QKD based on intra-particle entanglement in an integrated photonic circuit" in collaboration with the University of Trento, Italy. This is a project under the India Trento Programme of Advanced Research (ITPAR) which is an international bilateral programme under the DST. Our project also involves tie-ups with several institutes in the country especially with teams at IISER Kolkata, ISI Kolkata and Bose Institute.

We are currently looking for one appointment within the Quantum Information and Computing lab, Light and Matter Physics group of the Institute. The appointment is on a contractual basis. The candidate will be associated with the **Quantum Information and Computing lab, LAMP Group** of the Institute for a **period of one year, with a possible extension up to three years or coterminous with the project (whichever is earlier)**. The yearly extension will be based on annual performance review which will be conducted at RRI. The details of the required qualifications and experience are given below.

Remuneration:

1st Year: Rs.47,000 + HRA @ 24% p.m

2nd Year: Rs.49,000 + HRA @ 24% p.m

3rd Year: Rs.54,000 + HRA @ 24% p.m

Note: Those who have submitted the thesis, but are yet to complete the requirements for award of Ph.D will be paid Rs. 38,000/- +HRA@24% p.m

A higher initial start may be considered in deserving cases

Eligibility:

Age: Not more than 32 Years as on the closing date for receiving the completed application forms online. Age relaxation may be considered for candidates with relevant research experience.

Essential:

1. PhD (Physics, Engineering Physics/Photonics/Materials Science/Nanotechnology):

Those who have submitted the thesis but are yet to complete the requirements for the award of Ph.D may also apply.

2. Programming knowledge in C++/Python/Matlab/Mathematica/Labview
3. Prior experience in nanofabrication, characterization, electrical and/or optical measurements of the devices.

Desirable:

The candidate should be motivated and should have a flair for experimental work as well as programming skills. 75% or more marks in aggregate or equivalent CGPA in the qualifying course is desirable.

Experience in one or more of the following is desirable:

1. Prior experience of working in an optics-based lab environment and familiarity with practical handling of optical and opto-mechanical components as well as equipment like signal generators, spectrum analyzers and digital oscilloscopes.
2. Previous work experience in quantum information/ quantum communication-based research work and familiarity with basic concepts in the field through course work, online classes etc.

General Information:

- Those who are already working in Government/Semi Government/PSU/Autonomous Bodies shall submit their applications through proper channel.
- The Institute reserves the right to restrict the number of candidates for interview to a reasonable limit, on the basis of qualification and experience higher than the minimum prescribed in the advertisement. Mere fulfilling the essential and desired qualifications will not entitle an applicant to be called for interview.
- Age relaxation will be applicable as per Govt., of India rules for the candidates belonging to SC/ST/OBC/Persons with disabilities categories.
- The institute reserves the right to relax any of the above requirements in exceptional cases.
- The Institute reserves the right not to fill the posts herein advertised. Canvassing in any form shall disqualify the candidate.
- Reservations for SC/ST/OBC candidates will be as per norms.

Selection procedure:

Candidates who qualify in the required criteria will be called for an interview. Call letters for interviews are likely to be sent by 14th August 2019; the interviews will be held at RRI.

Apply online at: http://www.rri.res.in/openings/postdoc_itpar2.html

Online submission of application starts: 9th July 2019

Closing date for receiving the completed application forms online: 14th August 2019

Applications received after the last date will not be considered.