

RAMAN RESEARCH INSTITUTE

Advt. No. - MEITY/3/2020

Announcement for a Research Associate position in Experimental Light and Matter Physics.

The Raman Research Institute, funded by the Government of India, is a premier institute engaged in research in basic sciences. More information about the Institute, the fields of research, and other details can be viewed at its website www.rri.res.in.

The Institute was awarded a grant from the Ministry of Electronics and Information technology (in conjunction with two more Bangalore based institutes) to set up a tri-institutional “Centre for Excellence in Quantum Technology” to develop different aspects of quantum technology in the realms of secure quantum communications including Quantum Key Distribution, quantum random number generation, quantum sensing and metrology as well as quantum computing related developments. More details on the Centre may be found here: <http://www.rri.res.in/ceqt.html>.

The Institute invites applications from individuals for Research Associate Position in the Light and Matter Physics group to be associated with the Quantum Information and Computing lab headed by Prof. Urbasi Sinha. The candidates must possess excellent and consistent academic record and core competence and research aptitude in Physics, especially desirable in the areas of experimental physics, primarily optics and electronics.

The selected candidate will work on developing high-end experiments towards quantum random number generation and quantum communication, including long distance quantum teleportation. The appointment will be for two years (1+1). The extension for the second year will be based on satisfactory performance in the first year. The details of the required qualifications and experience are given below. There will be an initial probationary period of two months.

Remuneration:

1st Year: Rs. 47,000 / Rs. 49,000 + HRA @ 24% p.m

2nd Year: Rs. 49,000 / 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 case.

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 (areas relevant to the job description). 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 Labview and at least one of Matlab/Mathematica.
3. Familiarity with quantum information/ quantum communication-based research work and familiarity with basic concepts in the field through course work, online classes etc. For instance, Knowledge of quantum information at the level of “Quantum Computation and Quantum Information” by Nielsen and Chuang [especially chapters 1, 2, 7 and 12].

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.

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 analysers and digital oscilloscopes.

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.

How to apply:

Those who wish to apply may send their CV to: usinha@rri.res.in with a copy to savithamd@rri.res.in. Two referral letters in support of application are required. Referral letter may be sent to usinha@rri.res.in.

The last date for receipt of applications is 20th October 2020. Applications received after the last date will not be considered.

Selection procedure:

Candidates who qualify in the required criteria will be called for an interview. The interviews will be held online for shortlisted candidates.