

# RAMAN RESEARCH INSTITUTE

Advt. No. - MEITY/2/2020

## Announcement for a Research Associate position in Theoretical Physics

Raman Research Institute invites applications from individuals for Research Associate position in Theoretical Physics. The candidates must possess excellent and consistent academic record and core competence and research aptitude in Physics, especially desirable in the areas of Condensed Matter, Statistical Mechanics and Quantum Optics.

The research will be at the exciting interface of quantum many-body physics, non-equilibrium statistical mechanics & quantum optics.

The problems of interest are as following:

- (a) *theory of strong light-matter interaction for propagating photons,*
- (b) *spin noise spectroscopy in ultracold atoms,* and
- (c) *quantum chaos and nonlinear quantum transport.*

We are currently looking for one appointment in the Theoretical Physics group. 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.

### **Remuneration:**

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

2nd Year: Rs.49,000 + 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 (Theoretical Physics): 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/Mathematica
3. Prior experience in research in theoretical physics of above topics.

**Desirable:**

The candidate should be motivated and should have a flair for theoretical research 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. Previous research work experience in theoretical physics of above topics and familiarity with basic concepts in the field through course work, online classes etc.
2. Specifically, experience in quantum statistical mechanics and/or quantum optics will be given special consideration.

**General Information:**

- Those who are already working in Government/SemiGovernment/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: [droy@rri.res.in](mailto:droy@rri.res.in) with a copy to [gayathrig@rri.res.in](mailto:gayathrig@rri.res.in)

**The last date for receipt of applications is 15 July, 2020.** Applications received after the last date will not be considered.

Two referral letters in support of application are required. Referral letter may be sent to [droy@rri.res.in](mailto:droy@rri.res.in)