

**RAMAN RESEARCH INSTITUTE**  
**BANGALORE 560080**  
**Advt., No. 16/2019**

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.rrri.res.in](http://www.rrri.res.in).

Applications are invited for ONE POST of RESEARCH ASSISTANT for **DEVELOPMENT OF REAL-TIME SIGNAL DETECTION MODULES for SINGLE-ATOM / SINGLE PHOTON EXPERIMENTS, and FEW-PHOTON IMAGING TECHNIQUES**. The appointment is on a temporary basis. The candidates will be associated with the LAMP Group of the Institute for a period of one year/ extendable to second year (as the case may be). The candidate should be motivated and should have a flair for experimental work. The details of the required qualifications and experience are given below:

**Job Description:** The experiments involve detection of weak signals submerged in noise. These have to be detected, processed, analyzed and archived. The job involves designing and implementing suitable techniques on high speed field-programmable modules, interfacing with hardware, and optimization of system parameters.

**Remuneration:** A consolidated remuneration of Rs.23500/-per month + HRA (24% of consolidated remuneration) will be paid to the selected candidates during the first year. An increment of Rs.1000/- will be provided in the second year.

**Essential Qualification:** BE/B Tech in Electronics or Electronics & Communications with at least 70% marks or 7.5 CGPA in the qualifying examination.

**Desirable:**

The candidate should be motivated and should have a flair for experimental work.

The candidate should have demonstrated experience in programming in

VHDL/Verilog/OpenCL. In addition, the candidate should have experience in one or more of the following:

- High-speed Digital Circuit design
- Design and development of PCBs for high-speed applications
- Implementation of digital signal processing algorithms in Software/Hardware
- High-speed data acquisition like Gigabit Ethernet
- C/C++, Matlab/Python programming
- Programming and use of dedicated single-board computers for experiments.
- Usage of modern Test and Measuring Instruments like: Digital Storage Oscilloscope, Spectrum Analyzer, Signal and Arbitrary Waveform Generators, etc.

Prior experience in photon counting techniques is highly desirable.

**Upper Age Limit:** The upper age limit is 30 years, as on the last date for closing of applications. The last date for receipt of applications is 17/12/2019. Applications received after the last date will not be considered.

**General Information:**

- (a) Age relaxation will be applicable as per Govt., of India rules for the candidates belonging to SC/ST/OBC/PWD categories.
- (b) The institute reserves the right to restrict the number of candidates for test/interview to a reasonable limit, on the basis of relevant qualification and experience higher than the minimum prescribed in the advertisement.
- (c) Candidate should be self-driven, motivated and have leadership skills to manage the personnel working with him.
- (d) Mere fulfilling the essential and desired qualifications will not entitle an applicant to be called for interview.
- (e) The institute reserves the right to relax any or all of the above requirements in exceptional cases.
- (f) The Institute reserves the right, not to fill the post herein advertise
- (g) Canvassing in any form shall disqualify the candidate.

**How to apply:**

**Interested candidates can apply by filling up an online form, and uploading all the relevant documents/images, including:**

1. Scanned colour copies of educational certificates and mark sheets,
2. Curriculum Vitae (1-2 page),
3. Statement of purpose (1-2 page), as to what motivates the applicant to apply for the above post and why the applicant is the appropriate choice for the opening,
4. A recent passport size photograph and signature,

Each applicant would need to provide references of two individuals whom the Institute could contact for referral letters. In case of any queries/help, please contact [recruitment@rri.res.in](mailto:recruitment@rri.res.in)

**Link to the application:** <http://www.rri.res.in/openings/rartsdm.html>

Incomplete applications, particularly those without a Statement of Purpose, will not be considered.

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