

**RAMAN RESEARCH INSTITUTE**  
**BANGALORE 560080**  
**ADVT. NO. 15/2024**

The Raman Research Institute, funded by the Government of India, is a premier institute engaged in research in basic sciences. For further information about the institute, visit the official website at [www.rri.res.in](http://www.rri.res.in).

Applications are invited for **ONE** post of **RESEARCH ASSISTANT in the upcoming LABORATORY FOR ATTOSECOND SCIENCES (LASE)** within the theme of **LIGHT AND MATTER PHYSICS** of the institute. The appointment is temporary, initially for a period of **ONE YEAR**, a possible extension by another year, after successful evaluation.

**Job Description:** The project will focus mainly on **High Harmonic Generation (HHG)** using few-cycle laser pulses. The candidate is expected to perform the following tasks.

- i. Design gas/LPP based HHG sources.
- ii. Automate, control and manipulate the experimental setup based on the needs of the high harmonic generation.
- iii. Beam delivery to desired target location.

**Remuneration:** A consolidated remuneration of Rs.31,000/- per month plus HRA as applicable as per the norms will be paid to the selected candidates.

**Essential Qualifications:**

- i. M.Sc. degree or Integrated M.Sc. degree in Physics or in Electronics.
- ii. Minimum six months of experience working in an optics-based lab environment.
- iii. Working experience with femtosecond and nanosecond laser systems.
- iv. Experience in digital and analog electronic instrumentation and automation using PLC/Arduino boards.
- v. Familiarity with 3D modeling using Autodesk Inventor/SolidWorks.

**Desirable:**

Proficiency in one or more of the following:

- i. Proficiency in LabVIEW/Python/or any other relevant tool.
- ii. Analysis: Expertise in MATLAB/Python/or any other appropriate tool.
- iii. Hands-on experience in handling test and measurement instruments (Oscilloscopes, Spectrometers, Signal generators, etc.)

**Upper Age Limit:** The upper limit is 28 years as on the last date for closing of applications. The last date for receipt of applications is **17th November 2024**. Applications received after the last date will not be considered.

## **General Information:**

- i. Age relaxation will be applicable as per Govt., of India rules for the candidates belonging to SC/ST/OBC/PWD categories.
- ii. 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.
- iii. Merely fulfilling the essential and desired qualifications will not entitle an applicant to be called for an interview.
- iv. The institute reserves the right to relax any of the above requirements in exceptional cases.
- v. The Institute reserves the right not to fill the post herein advertised.
- vi. 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:

- i. Scanned copies of educational certificates and marksheets from Class X onwards.
- ii. Proof of date of birth.
- iii. A Curriculum Vitae (CV) detailing past experimental projects.
- iv. A 1-2 page Statement of Purpose explaining the applicant's motivation for applying and why they believe they are a suitable candidate.
- v. A recent passport-sized photograph signed by the applicant.

Each applicant would need to mark the post(s) they are applying for, and provide references of two individuals whom the Institute can contact, if necessary, (email IDs and cell numbers/telephone numbers) for referral letters. These individuals can be either your teachers, or those who are familiar with your professional work.

**Link to the application:** [http://rhino.rri.res.in/forms/ra\\_lase.php](http://rhino.rri.res.in/forms/ra_lase.php)

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

In case of any queries/help, please contact [recruitment@rri.res.in](mailto:recruitment@rri.res.in)