

**RAMAN RESEARCH INSTITUTE**  
**BANGALORE 560080**  
**Advt. No. 6/2024**

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

Applications are invited for ONE POST of RESEARCH ASSISTANT on a temporary basis for assistance with MECHANICAL activities to support experimental X-ray astronomy research. The person is expected to help with the development of X-ray focusing optics that involves fabrication of thin grazing incidence X-ray mirrors and their precise assembly, and calibration, that eventually form basis for the future space-based X-ray astronomy mission. X-ray optics will enable most sensitive X-ray observations for various astronomical sources. The X-ray optics will be coupled with suitable focal plane detector to enable efficient detection of X-ray photons.

The appointee would work towards mechanical design and development aspects of the X-ray optics as well as X-ray detectors. The physicists/engineers appointed as research assistant for this activity would be part of this experimental group and participate in the research activities related to instrument development in X-ray lab of Raman Research Institute.

The appointment would be for a period of one year, extendable to a second year, subject to satisfactory performance and project status. We seek motivated individuals, with good academic background, proficiency and aptitude for the instrument development for cutting-edge research in X-ray astronomy. Ability to work with a team is essential. The details of the required qualifications and experience are given below.

**Job Description:**

The job would involve design, fabrication and characterization of mechanical support structure for X-ray mirrors/reflectors that need to be assembled with high precision. The candidate will also involve in fabricating the mechanical set up for test and calibration of the optics as well as development of X-ray detectors. The candidate is expected to perform simulations to optimize the design of the instrument.

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

**Essential Qualification:** (it is mandatory that the candidate fulfils everything written here)

BE/BTech degree in Mechanical Engineering or related branches, with at least 70% marks or 7.0 CGPA in the qualifying examination.

**Desirable:** (these are expected additional qualifications and skill sets)

Some experience in the domain area of the work is desirable. The application may document examples of project work or experience in the domain areas. Experience with use of simulation packages like AutoCAD, ANSYS etc. would be an added advantage.

**The last date for receipt of applications is 26.07.2024.** All applications received till the due date would be given due consideration. If no suitable candidate is subsequently selected by the screening and interview process, the position would be kept open on the Institute website till filled.

**Upper Age Limit:** The upper age limit is 30 years as on the last date of application. Applicants above 30 years may be considered if accompanied by commensurate experience and competency.

**General Information:**

1. Age relaxation will be applicable as per Govt. of India rules for the candidates belonging to SC/ST/OBC/PWD categories.
2. 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.
3. Mere fulfilling the essential and desired qualifications will not entitle an applicant to be called for an interview.
4. The Institute reserves the right to relax any of the above requirements in exceptional cases.
5. The Institute reserves the right not to fill the post herein advertised.
6. 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 marksheets,
2. Curriculum Vitae (1-2 page),
3. A recent passport size photograph and signature

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

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

Incomplete applications will not be considered.