

**RAMAN RESEARCH INSTITUTE
BANGALORE 560080**

Advt. No. 10/2026 Dated - 09 April 2026

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.rii.res.in

Applications are invited for **THREE POSTS** of RESEARCH ASSISTANT on a temporary basis for APSErA experiment in RADIO ASTRONOMY. APSErA is a novel experiment to detect spectral distortions in the cosmic radio background arising from the formation of the very first atoms in the Universe. APSErA is designed to operate at radio frequencies over the frequency range of 2- 4 GHz. The appointees would work towards design and development aspects of the:-

1. Analog Radio Frequency (RF) system of APSErA, focusing on the designing PCBs, filters, system calibration, hardware testing, and integration.
2. Electromagnetic analysis, simulation, testing for APSErA including but not limited to antennas, support structures, and radomes.
3. Digital Instrumentation comprising firmware design and hardware implementation using FPGAs, including control and automation and status monitoring.

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 in experimental research. We prefer a candidate seeking experience in RF electronics / Antenna design / Digital instrumentation for astronomy over a 1 to 2 year period. The ability to work with a team is essential. The details of the required qualifications and experience are given below.

Job Description: The successful candidate would work on the APSErA experiment, working in the domain of RF, antenna design and Digital electronics. The work would involve participating in the design, development, characterization, measurement and testing of these systems and deployment in remote sites.

Remuneration:

A consolidated remuneration of Rs.31,000/- + admissible HRA per month.

Maximum duration: 1 year, extendable up to 2 years from the date of joining.

Essential Qualification: B.E./B.Tech. degree in Electronics & Communication Engineering or Telecommunication Engineering or Instrumentation Engineering, with at least 70% marks or 7.0 CGPA in the qualifying examination. Candidates graduating by mid-2026 will also be considered eligible. The applicant is expected to provide documentary evidence of any previous pursuits in RF/Digital electronics. The ability to work in teams and field stations is essential. Although the position and work will be based at the Raman Research Institute campus at

Bangalore, it may be needed to make field trips with the team members for testing of radio astronomy receivers and/or system tests and measurements.

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

Desirable for post 1: Practical job experience in RF electronics, PCB design, filter design including using CAD packages, RF measurements/characterization. Any prior experience working with RF at cryogenic temperatures is a bonus. The applicant may document examples of project work or experience in these domain areas.

Desirable for post 2: Use of EM simulation tools such as CST, FEKO, hands on experience with measurements in anechoic chambers. The application may document examples of project work or experience in these domain areas.

Desirable for post 3: Practical experience with firmware design using tools such as Vivado and with exposure to Verilog/VHDL/Block design, digital signal processing, hands on experience with FPGA programming and hardware testing. The application may document examples of project work or experience in these domain areas.

The last date for receipt of applications: 10 May 2026. 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 aged 30 or above 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 qualifications and experience higher than the minimum prescribed in the advertisement.
3. Mere fulfillment of 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 out 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 pages),
3. Statement of purpose (1-2 pages), 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,
5. Incomplete applications will not be considered.

Each applicant must 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

Link to the application:

https://careers.rri.res.in/rrijobs/job_listing.php

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

-----000-----