

RAMAN RESEARCH INSTITUTE
BANGALORE - 560080
Advt. No. 17/2025

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

Applications are invited for **ONE** post of **RESEARCH ASSISTANT** on a temporary basis for the computational astrophysics group under the supervision of Dr Kartick C Sarkar. Dr Sarkar's group works on understanding different processes in the interstellar medium.

The appointee would work towards developing and testing different numerical algorithms/packages suitable for computational astrophysics. The appointment would be for one year, extendable to a second year, subject to satisfactory performance and project status. We seek motivated individuals with excellent academic backgrounds, proficiency, and aptitude seeking a 1 to 2 years of internship with a research team engaged in cutting-edge research on several open problems in astrophysics. Candidates should be fluent in writing C/C++/fortran/Python codes for solving physics-based problems. Applicants with experience in high-performance computing and fluid dynamics will be given special preference. The details of the required qualifications and expertise are given below.

Job Description:

The successful candidate would work with Dr Kartick C Sarkar and his group on developing numerical tools fit for various astrophysical problems, particularly fluid dynamics and radiative transfer. The work would involve writing numerical codes based on existing algorithms and developing algorithms to make astrophysical codes more efficient and accurate.

Remuneration: A consolidated monthly remuneration of Rs. 31,000/- + admissible HRA.

Maximum duration: 1 year (extendable up to 2 years if performance is satisfactory).

Essential Qualification: A B.E./B.Tech/B.Sc/M.Tech/M.Sc. degree in any branch of science and engineering. The applicant should have undergone a coursework in computational physics/engineering and a CGPA above 8.0 in the qualifying examination. The applicant is expected to provide documentary evidence of previous pursuits of interest in computational physics or other computational engineering problems.

Desirable: Knowledge of high-performance computing and fluid dynamics is desirable. A valid JEST or CSIR-UGC NET or GATE score in the respective specialisation would be valued.

The last date for receipt of applications is 18.07.2025. All applications received till the due date will be given due consideration. If no suitable candidate is subsequently selected by the

screening and interview process, the position will 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 the Government 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 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.

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 (max 2 pages, 11 font), including relevant experience.
3. Statement of purpose (max 1 page, 11 font), 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 from 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: http://rhino.rri.res.in/forms/ra_ca_2025.php

Incomplete applications, particularly those that go beyond the page limit, will not be considered.

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