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RAMAN RESEARCH INSTITUTE
BANGALORE 560080

Advt. No. 04/2026 dt. 10.02.2026

The Raman Research Institute (RRI) invites applications for one Research Associate position to contribute towards theoretical and statistical challenges in extracting subtle signatures of early universe physics from the present, upcoming, and future Cosmic Microwave Background (CMB) observations. Candidates must possess an excellent, consistent academic record, along with strong competence and research aptitude in theoretical/observational Cosmology.

The Astronomy and Astrophysics (A&A) theme at RRI has been working on both theoretical and observational fronts and has achieved notable global recognition. The post is supported by the J. C. Bose grant awarded to Professor Tarun Souradeep, Director of RRI, and a faculty member of the A&A group. Prof. Souradeep, who has led widely recognised CMB research groups at IUCAA, IISER Pune, and currently at RRI, is also the lead proposer of the space-based CMB Bharat mission in India.

Project description

The position offers an exciting opportunity to contribute to a globally competitive research program at the forefront of CMB experiments. The research would be at the interface of theory, statistics, observational analysis, and modelling. The successful candidate will contribute to the development of novel theoretical/statistical techniques for analyzing CMB maps. The work will involve analytical modelling, numerical simulations, and the study of CMB temperature and polarization data.

We are currently seeking one Research Associate (RA) position within the Astronomy & Astrophysics group of the Institute. Candidates with a recent PhD will be considered for an RA-I role; those with 1 year of postdoctoral experience will be considered for an RA-II role; and those with 2 or more years of postdoctoral experience will be considered for an RA-III role.

Remuneration: Research Associate I (RA I) – 58,000 INR plus 30% HRA
Research Associate II (RA II) – 61,000 INR plus 30% HRA
Research Associate III (RA III) – 67,000 INR plus 30% HRA

Eligibility:

Age:

Not more than 35 Years for the RA I position, 36 years for the RA II role, and 37 years for the RA III role as of the closing date for receiving the completed application forms online. Age relaxation may be considered for candidates with relevant research experience.

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Essential:

- PhD in one of the following domains: Theoretical/Statistical/Observational Cosmology, Astronomy, or closely related areas of Theoretical Physics.
- Strong track record of theoretical and/or observational research in Cosmology and Astrophysics.
- Ability to work independently on modelling, analytical, or numerical simulations related to CMB and/or LSS observations.

Desirable:

- Prior experience with peer-reviewed work in cosmology using CMB or LSS observations.
- Prior experience in CMB science, expertise, and/or exposure in instrument modelling and experimental design will be considered as an additional strength.
- Proficiency in mathematical, computational, and statistical tools for modelling and inference of cosmological observables (e.g., CLASS, Cobaya, Monte Python).
- Prior experience with general-purpose computational facilities such as high-performance computing clusters and programming tools (Matlab, Mathematica, Python, C++).

Tenure:

- Initially for 1 year, extendable for up to 4 more years of the project, subject to satisfactory performance and annual review by an expert committee.

Selection procedure:

Interested candidates may apply by submitting:

- A detailed CV and cover letter.
- Copies of academic records and research project details.
- A statement of interest highlighting relevant theoretical research experience, and
- Compulsory submission through the online form:
  https://careers.rri.res.in/rrijobs/job_listing.php
- Applications sent by email will not be considered. Incomplete applications (missing cover letter, grade sheets, or certificates) will be rejected.
- Candidates who meet the criteria will be shortlisted and invited for an interview.

Closing date for receiving the applications: 27 February 2026. Applications received after the last date will not be considered.

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General Information:

- Those already working in Government/Semi-Government/PSU/Autonomous Bodies shall submit their applications through the proper channel.
- The Institute reserves the right to restrict the number of candidates for interview to a reasonable limit, on the basis of qualification and experience higher than the minimum prescribed in the advertisement. Mere fulfillment of the essential and desired qualifications will not entitle an applicant to be called for an interview.
- Age relaxation will be applicable as per Govt., of India rules for the candidates belonging to SC/ST/OBC/Persons with disabilities/women categories (as per NPDF norms).
- This is a project-based position. Remuneration shall depend on the availability of project funding.
- The institute reserves the right to relax any of the above requirements in exceptional cases.

The Institute reserves the right not to fill the advertised posts. Canvassing in any form shall disqualify the candidate