Announcement of opportunity for a research career in Experimental Radio Astronomy

We are currently looking for three appointments within the Astronomy & Astrophysics group of the Institute. This advertisement and selection is for appointments of RESEARCH ASSOCIATES in the Pay Band of Rs 15,600-39,100, with Grade Pay of Rs 5,400 (adding allowances as applicable to Central Government employees this adds to a total emolument of approximately Rs 63,000 per month). Next higher starting grade may be considered for candidates with relevant qualifications and/or experience, if relevant to the work function. Reservations are applicable as per rules. There will be a two-year probationary period in all cases and confirmation after probation will be based on appraisal, which takes into account their performance in relevant course work as well as ability for collaborative experimental research.

Eligibility:
- Age: Not more than 30 Years as on the closing date for receiving the completed application forms online. Age relaxation may be considered for candidates with relevant research experience.
- Essential:
  - Candidates with a B.E/B.Tech undergraduate degree or equivalent in Electronics Engineering /Electronics and Communication Engineering/ Electrical Engineering/ Mechanical Engineering/Computer Science OR M.Sc degree in Physics.
  - Candidates should have passed their qualifying degree with distinction with at least a minimum of 75% marks in aggregate or CGPA of 7.5.
- Desirable:
  - M.Tech in related areas or candidates with higher qualifications and/or research experience, if relevant to the career path.

Selection procedure:
- Candidates who qualify in the essential criteria will be called for an interview based on their academic record and performance in GATE/GRE. The final selection will be based on performance in written test/interviews. Demonstrated interest and aptitude for research will be a strong consideration in all stages of the selection.
- Call letters for interviews are likely to be sent in November 2017; the interviews will be held at RRI.

Apply online at: www.rri.res.in/RAadvt2017.html

The application needs to include the complete academic record, any supporting evidence of demonstrated interest and aptitude for research in basic science, and a Statement of Purpose of 1-2 pages that argues why the candidate is most suitable for the envisaged career path. Applications without a well-articulated and well-motivated statement of purpose will not be considered.

Raman Research Institute invites applications from individuals with excellent and consistent academic record, core competence and research aptitude in Engineering, Physics, Engineering Physics or Computer Science, with motivation and passion for a research career in Astronomy & Astrophysics, to work in frontier research areas in Experimental Radio Astronomy.

The selected candidates will work on research programmes directed towards addressing a broad range of key science areas in cosmology, fundamental physics, and transient Universe using Radio Astronomy. The effort is expected to include design, building and commissioning of specialized and purpose-built Radio Telescope systems, and associated software algorithms, to pursue frontline research in modern astrophysics. The engineering skills required for such activities include Signal and Image Processing, Antennas, Low-noise microwave receivers, High-speed analog and digital data transmission and processing, real-time and off-line signal processing and statistical analysis. Working in remote regions is essential today in this branch of astronomy owing to radio frequency interference; therefore, we seek individuals with an ability and eagerness for exploration and travel and working with international partnerships in remote locations.

The Astronomy & Astrophysics group at the Raman Research Institute has members whose emphasis ranges from theoretical astrophysics through observational astronomy to builders of specialized instruments. Collaborations are often spawned naturally by interactions within the group and these lead to joint pursuit of problems in theory, observations, as well as joint development of specialized telescope systems including space missions. The collaborations are certainly not confined to within group members; most joint research publications of the group involve members of research groups based in other institutions both in India and overseas.

The path for selected candidates under this announcement of opportunity includes specialization, conceptual understanding of astrophysics, and supervised research leading to a PhD degree, both of which are essential additional qualifications and preparations for a professional career in this task.

Online submission of application starts: August 09, 2017
Closing date for receiving the completed application forms online: October 10, 2017
Applications received after the last date will not be considered.

RAMAN RESEARCH INSTITUTE