

## **Astrophysics Research Associate at Homi Bhabha Centre for Science Education (TIFR), Mumbai**

Applications are invited for a Research Associateship for a period of three years (renewable each year on satisfactory performance) based at the Homi Bhabha Centre for Science Education, a constituent unit of Tata Institute of Fundamental Research located at Mankhurd, Mumbai. The position is funded by the Department of Atomic Energy through a Raja Ramanna Fellowship. The selected candidate will work at HBCSE (TIFR) with Professor Alak Ray mainly on research on supernovae and massive star explosions. The position is available immediately and will be on contract.

### **Eligibility:**

1. Ph.D. degree in astronomy, astrophysics or physics. Candidates who have submitted their Ph.D. thesis and awaiting appraisal are also eligible to apply. Recent PhDs (within the last 3 years) are preferred.
2. Experience in programming languages such as C, C++, Fortran, Python is desirable. A prior experience of research in the field of stellar explosions will be a plus but applicants with experience in other fields of astronomy and astrophysics and a good grounding of core areas of physics, e.g. Classical Mechanics, Fluid Dynamics, Electrodynamics and Quantum Mechanics are also eligible. Understanding the basic principles of gathering, analysis and interpreting data, some familiarity with statistics, e.g., significance testing, fitting, etc. is desirable.
3. Applicant should have good oral and written communication skills in scientific English.

The remuneration will be in the range of Rs. 36,000 to 40,000 per month (Rs 32,000/- per month for those who have submitted their PhD thesis, but are yet to receive their degree), with a contingency grant of Rs. 32,000 per annum. The selected candidate will be eligible for medical benefits as per the rules of HBCSE. On-campus accommodation will be provided, subject to availability. When campus accommodation is not available, House Rent Allowance (HRA) as per rules will be provided.

**Deadline for application:** August 21, 2017 or till the position is filled, whichever is later.

### **How to apply:**

Interested candidates should apply with the curriculum vitae, list of publications, and a description of research interests, by email to Shri Ajay M. Abhyankar (Senior Administrative Officer, HBCSE) at: [hbccest@hbcse.tifr.res.in](mailto:hbccest@hbcse.tifr.res.in). In the email application, please mention, 'Application for Astrophysics Research Associateship at HBCSE' in the subject line. Applicants should arrange for two letters of reference at least two experts who are familiar with applicant's work to be sent directly to the same email address by the deadline.

### **Job description:**

This is a position where the incumbent will be expected to research on explosions of massive stars and other associated phenomena. The work will involve computational modeling and comparing these with observational data, some of which the group members and collaborators shall obtain through targeted observations from ground and space based observatories. The incumbent will be expected to work in collaboration with other researchers, and to provide support to project students and others in the group, and occasionally lecture and help in organizing small workshops. Travel to other research centres or observatories may be required.

Mumbai July 20, 2017