

## Scientific Software Developer (Gravitational Wave Data Centre)

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**Pay / Remuneration:** Maximum Rs. 40,000/- per month (Consolidated)

**No. of Post:** One

**Duration:** Co-terminus with the project completion, renewable annually based on performance

**Age Limit:** 35 years (Including relaxation)

**Qualification & Experience:** B.Sc. / M. Sc. (Physics/Math/IT) / B.E. / B. Tech. / MCA or equivalent. The candidate must have minimum 5 years of professional experience.

**Desirable Qualification:** The candidates must be proficient in:

- Strong software development relevant to scientific applications
- Extensive experience in Linux systems

In addition, candidates with familiarity in some of the following areas will be preferred:

- UNIX operating systems
- Managing Apache http/https web services.
- Programming with C, C++, and/or script languages like bash, perl & Python
- Version control systems (SVN, GIT)
- Relational databases (e.g. mySql)
- Strong documentation skills
- Good communication and customer support skills
- System configuration, server control such as user accounts.
- Virtual machines.

The candidate should be willing to learn the requisite abilities quickly

### **Duties & Responsibilities:**

- Software development for scientific applications
  - Compilation and running of scientific applications for gravitational wave research
  - Help writing new softwares for gravitational wave research
  - Development of interactive websites for sharing results with the external world
  - Managing databases and developing software to provide user interfaces
  - Ensure computability and usability of the shared data with existing formats
  - Configure network and other system settings required to complete the above tasks
- Edit software programs in C and scripting languages like Python.
- Help its IUCAA and remote users in developing, installing and running their data analysis and related softwares and web services
- Assist installation or rearrangement of hardware components
- System administrative and technical support to the Gravitational Wave Data Centre

- Handle and resolve user issues expeditiously and effectively. Note that many users will be remote users. This requires *on-call* availability 24 hours a day, 7 days a week.
- Identify and evaluate systems and network requirements and implement solution updates as and when needed.
- Be proactive, as opposed to reactive.
- Monitor network performance, security and IT infrastructure.
- Assist maintenance of the HPC website and keep it up-to-date.
- As and when required, participate in meetings, teleconferences, and workshops relevant to supporting gravitational wave data analysis on the HPC.
- Other duties as assigned.

**Last date of application:** April 20, 2018