

Software Engineer (Projects)

Qualification & Experience: First Class Degree in B.Tech/BE/M.Sc(Computer Science, E&TC/IT or related areas).

The candidate should have understanding and about three years of experience working on high level and/or embedded software design, development and testing of instruments preferably for scientific applications.

The following skill sets are expected for the position:

- Good working experience with Linux platform with understanding of Linux internals
- Strong software development skills using high level languages like C, C++
- Shell scripts, HTML and Java-based languages
- Understanding of software interfacing with peripherals and hardware within a Linux or Windows environment using device drivers, libraries etc. preferably for instrument control and high speed data transfer
- Familiarity with communication protocols like TCP/IP, HTTP etc. through secured connections.
- Environments and tools for developing graphical user interfaces
- Experience in using source code management tools, such as Git and Integrated Development Environment frameworks

Knowledge of web design with XML, scripts, CGI back ends etc. would be of added value. Candidates who have exposure to all stages of software development lifecycle will have an advantage. Knowledge of Astronomical Image sensors and Controllers is a plus. The candidate should be willing to learn the requisite abilities quickly and should have good problem solving skills. Any experience of working on satellite payload development related activities will be highly valuable.

Job:

1. Design and development of control and data acquisition software systems for SUIT payload and/or WALOP instrument
2. Work with other agencies and vendors responsible for various aspects of design and development
3. Participate in and/or organize reviews, discussions
4. Developing, testing, debugging, characterization and delivery of components
5. Participate in assembly, integration and testing of subsystems and full payload and/or WALOP instrument at laboratory facilities in IUCAA and elsewhere in the country
6. Update and maintain instrumentation laboratory webserver in coordination with IUCAA computer centre staff
7. The candidate should be willing to work beyond regular office hours and for other related tasks in the instrumentation laboratory as well as at collaborating institutions.

Age Limit: 35 years (Including relaxation)

Period of Contract: Co-terminus with the project completion, renewable annually based on performance

Remuneration: Rs.37,000/- per month