

Electronics Engineer (Projects)

Qualification & Experience: First Class Degree in B.Tech/BE or M.Sc. (Electronics or related areas).

The candidate should have understanding and about three years of experience working on electrical and analogue/digital electronics design, development and testing of instruments preferably for scientific applications.

The following skill sets are expected for the position:

- Analog, Mixed Signal Designing, preferably in the field of low level signal processing at high speeds
- Testing and debugging of complex electronics systems
- Multi-layer high density PCB Designing using ORCAD starting from Schematic entry and library development
- Pre and Post layout PCB Simulation for Impedance, Cross Talk and Signal Integrity issues.
- Simulation tools like Spice
- Embedded System and Control Electronics Design
- Hands on experience in using latest test and measurement tools

Knowledge of Digital design methodologies and tools including FPGA flow from RTL to bit-stream generation, Embedded, VHDL and familiarity with Assembly Language and "C" Programming would be of added value. Knowledge of Astronomical Image sensors and Controllers is a plus. The candidate should be willing to learn the requisite abilities quickly. Any experience of working on satellite payload development related activities will be highly valuable.

Job:

1. Design and development of electronics 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. 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