

Senior Electrical and Electronics Engineer - Quebec

About the Job

Our company wants to strengthen its current position in the government funded GEO satellite development project with a pioneer Senior Electrical and Electronics engineer who is willing to work in the forefront of satellite technology.

The Senior Electrical and Electronics Engineer, along with the electrical subsystem team, is responsible from design, verification and testing of energy generation (solar arrays, regulators), energy storage (battery) and energy distribution (Power Conditioning Unit and Harness).

Tasks:

In this role as Senior Electrical and Electronics Engineer, you would be expected to be involved in:

- Electrical System design including electrical analysis, trade-offs and power budgets,
- Solar Array design and reliable performances,
- Design and reliable performances of Battery and Power Conditioning Units,
- Implementation of EMC/EMI/ESD and radiation analysis to ensure safety of subsystem/components,
- Design and implementation of Harness,
- Preparation of test plans, performance and functional testing of the electrical subsystem,
- Preparation of timely reports to the upper management and cross related subsystems,
- Preparation of requirements to be supplied to cross-functional subsystems
- Preparation, co-ordination and release of design justification documents (DJD), system operation handbooks (SOH), interfaces control drawings (ICD) and interface data sheet (IDS) documents,
- Oral and written presentations to internal and external customers, as well as mentoring less experienced electrical engineers

Qualifications:

As a Senior Electrical and Electronics Engineer, you will possess:

Required:

- B.S. in Electrical Engineering or related fields,
- Fluency in both written and verbal English,
- Working knowledge of satellite electrical architecture and components,
- Good presentation and interpersonal skilled team player

Desired

- Experience with electrical analysis tool packages such as PSPICE, POWERCAP
- Experience with electrical 3D design tools such as CATIA Electrical Module
- Working knowledge of Li-Ion batteries control and GaAs solar cell technologies.