

Satellite Engineer

Come join Calian's Satellite Operations team as we fly unique space missions that benefit Canadians and international partners. We conduct our operations in a pioneering yet sustainable fashion and are proud to have flown RADARSAT-1 more than triple its original design life. Our existing responsibilities consist of SCISat (18 years and counting), NEOSat (more than 9 years), RADARSAT-2 (since 2007) and recently the RADARSAT Constellation Mission (RCM). With decades of flight heritage and an exciting future of cutting-edge missions, you can join the Calian team that ensures great ideas translate to great results.

Calian is a Canadian-based, publicly traded company with an international reputation for excellence and stability. To learn more about who we are visit our website and explore the Advanced Technologies section – www.calian.com

Position:

The **Satellite Engineer** works hand-in-hand with the rest of the operations team, which is based in Saint-Hubert Quebec and ensures a healthy fleet of spacecraft. From observing ozone particulates to imaging natural disasters to hunting comets, each mission is unique with different needs and support requirements. The Satellite Engineer is relied upon to monitor and maintain mission health, implement contingency recoveries as part of a 24/7 on-call schedule, maintain hardware and software configurations, as well as identify improvements and keep relevant all documentation. Participating in the Launch and Early Orbit (LEOP) phase, Commissioning and Routine phases and the Decommissioning phase, the Satellite Engineer is a challenging position that helps ensure all mission deliverables. The SE position counts four different levels depending on employee qualifications and responsibilities: Entry, Intermediate, Senior and Lead.

Responsibilities:

- You have a strong technical background with an inquisitive and curious mindset, able to investigate sometimes very complex scenarios to understand, explain and recommend solutions to both technical and non-technical audiences
- You will monitor the performance of all scheduled in-orbit activities to assess satellite health status and maintain logging records
- You will provide real time support for the implementation of special and contingency satellite activities confirming successful activity execution or identifying anomalous satellite behaviour
- You are comfortable expressing your opinions and the team will look to you for expert support:
 - Regarding anomaly investigations and reporting,
 - Reviewing and implementing the execution of recovery operations,
 - Including an on-call rotation

- You will strive to provide support to future mission operations development, LEOP and commissioning
- You will work efficiently to support satellite operations and upgrades in a timely manner
- You will perform satellite telemetry short and long-term trend analysis to evaluate potential satellite subsystem performance degradation
- You will identify issues, recommend and implement approved changes to the baseline operations plan, satellite configuration, manual and automated procedures, and databases, when such changes are required to maintain or improve satellite availability or performance

Qualifications:

- University Degree in Engineering preferably in one of Electrical, Mechanical, Computer Science or Aerospace
- Fluent knowledge of both spoken and written English is required and French is an asset
- Experience with one or more of the following elements would be an asset:
 - Control systems,
 - Radio frequency systems,
 - Electrical power systems,
 - Orbital mechanics,
 - Linux operating system,
 - Database management systems,
 - Artificial intelligence and machine learning,
 - Programming skills (Python, Java, SQL, Perl, Matlab, C ...)
- This position requires qualities such as autonomy, team spirit, adaptability, stability, analytical skills, sense of responsibility, a willingness to learn, and decision-making ability

Why Work for Calian Advanced Technologies?

- Opportunity to make an impact by building and supporting projects that millions of people depend on daily
- A team-oriented work environment that promotes learning, collaboration, and skill improvement
- Annual salary and performance reviews, with one-on-one sessions to support career development
- Robust company paid benefit with the option to participate in the employee stock purchase plan

The ability to meet the requirements outlined in the Canadian Controlled Goods Program is mandatory. All employees are required to apply for and receive a Government Security Clearance.

The successful application will be required to work on site at our Saint-Hubert facility while adhering to all Federal, Provincial and company COVID-19 measures and guidelines.

Applicants must be eligible for Ordre des Ingénieur du Québec (OIQ) membership.

Thank you for your interest in Calian!