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Our client is looking for a **Satellite Payload Consultant** to be resident in Kamakura (Japan) starting end of 2014.

### **Qualification and Experience**

The Payload Consultant has over ten years of experience and has extensive background in monitoring satellite payload programs including data review, problem resolution, review of issues and documentation, schedule assessment, and verification of manufacturers' compliance to customer contracts (including Statement of Work, Spacecraft Technical Specification, Product Assurance Plan and Integrated Test Plan).

### **General**

The Payload Consultant will be Resident in the premises of the Satellite Manufacturer and will perform under the Client management certain engineering services as further described below in support of the procurement of the spacecraft and launch vehicle. The Payload Consultant will provide an adequate support during a thirteen months period. The Payload Consultant will provide oversight support of the Payload construction and test phase, including unit level, Communications Module level and spacecraft level activities.

### **Spacecraft Payload Management**

The Payload Consultant will, under the Client Management, monitor the progress of the payload and system design, construction, and integration at the manufacturer's facility. He will assess the manufacturer's design, manufacturing processes, and quality practices and provide recommendations that result in the delivery of a more reliable payload. Special emphasis will be placed upon the establishment of hardware family performance evaluation processes, lessons learned, and adequacy of test and process non-conformance corrective actions.

### **Scope of Services**

The following sections provide examples of tasks to be performed during program oversight.

► Spacecraft Design & Unit Production Phase - tasks

- Review payload specifications.



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- Work on proper flow-down of System Specification to Payload subsystem and Payload unit requirements by reviewing performance budgets and analyses.
  - Participate in layout processes considering key design elements to evaluate satellite payload system performance with margin.
  - Appraise all payload-to-bus interfaces.
  - Assess redundancy schemes and check that they are set up in the best way for the S/C Operator.
  - Assess heritage and qualification status for all units.
  - Participate in unit-level Preliminary Design Reviews (PDR's) and Critical Design Reviews (CDR's), if applicable.
  - Participate in Configuration Control Board and Change Review Board meetings.
  - Review Telemetry and Command list.
  - Review qualification and acceptance test data of all units. Participate in unit sell-off meetings.
  - Participate in system-level PDR's and CDR's. Provide expectations for content to Manufacturer ahead of time, and then review packages before the meeting to check for completeness.
- Payload and T&C RF Subsystem
- Monitor payload design, manufacturing, assembly and test activities.
  - Review payload and T&C block diagrams (and panel layout) during the design phase.
  - Audit the work in progress, to check that the contractual Product Assurance requirements are met and that tests are correctly conducted and the performance specification requirements are met.
  - Establish and maintain the payload systems key information including payload performance budgets; antenna design and coverage; EIRP and G/T budgets, payload



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power, mass and thermal dissipation, and telemetry and command assignments of the payload section for the spacecraft.

- Review the Manufacturer's budgets on a regular basis.
- Review the design and/or existing documents in order to determine the status of the hardware.
- Review test data generated by the Manufacturer, and trend key performance parameters.
- Review payload and T&C sections of the on-station operational procedures.

► Spacecraft Subsystem and System Test Phases - tasks

- Review Test Requirements Document, including a detailed look at test matrices for each test phase.
- Provide payload subsystem and payload system test support, including data review and participation in troubleshooting activities.
- Review System Summary and provide comments as applicable.
- Participate in Spacecraft Preship Review. Provide content expectations to Manufacturer ahead of time, and then review package before the meeting to check for verify completeness.
- Participate in In Orbit Tests.

► General - tasks

- Participate in anomaly/non-conformance reviews and failure review boards, with emphasis on long term corrective action
- Attend weekly program reviews.
- Review overall payload program schedule and recommend corrective actions if required.
- Review Payload contract deliverables for completeness.



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- Review for completeness all test data to be provided to The Client.
- Confirm proper closure of action items generated at PDR's, CDR's, TIM's (Technical Interface Meetings, if applicable) and program reviews.
- Review Compliance Verification Matrices throughout the program, checking for completeness and compliance for items related to the Communications Payload.
- Provide recommendations regarding specification changes and/or waivers requested by the Manufacturer.
- Support Failure Review Board and Change Review Board meetings.

### Reporting

The Payload Consultant will provide a report to The Client on a weekly basis covering the following topics:

- Items Requiring Management Attention/Decision
- Major Accomplishments
- Major Tasks for Coming Month
- Issues
- Key upcoming events, travel, etc.
- Schedule

Very attractive package on offer. The successful candidate shall be prepared to relocate to Kamakura, Japan for a minimum of thirteen months.

*Run by space professionals, Spacelinks provide specialist recruitment in the space and defence industry. Spacelinks are acting as a Recruitment Agency with regards to this position. When applying, please send your CV as a Word document to [cv@spacelinks.com](mailto:cv@spacelinks.com) and please indicate your current salary and earliest date of availability. Make sure to include the vacancy number **SL-01607** in the subject line as we use email filtering.*