



## JOB POSTING

**Position:** Senior Systems Engineer    **Location:** Laurel, Maryland  
**Type of Position:** Full Time    **FLSA Status:** Exempt  
**Date of Posting:** March 30, 2010    **Internal Application Expiration Date:** April 6, 2010  
**Relocation:** None

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### Summary:

- Provide RF Engineering skill and technical expertise to support on-going operations and systems design engineering of ground segment systems.
- Generate engineering design documentation (pre-built/as built documentation, training, operation and maintenance documentation, etc.)
- Assist with proposals, generate bill of materials and support system integration and implementation.
- Interface with customers, ensure requirements are met and evaluate technical performance as required.
- Design and evaluate current remote VSAT platforms to include both TDMA & SCPC technologies.
- Assist applications engineers with customer specific VSAT platforms by developing Bill of Materials (BOM) and associated technical drawings.
- Analyze signal level of both IF and RF chains of VSAT and teleport antenna systems.
- Develop and maintain system drawings and BOMs for VSAT and teleport systems and platforms.
- Assist in Network Operations Center (NOC) by troubleshooting and maintaining teleport IF and RF systems and subsystems
- Assist in the implementation and maintenance of "Line-ups" for both SCPC & TDMA carriers when requested.
- Assist with the generation of proposals as necessary.
- Less than 20% travel is required.

### Minimum Requirements:

- Bachelor's of Science in Electrical Engineering or a related field, Military/Civilian 5-10 years experience.
- 3+ years industry related experience
- Current United States Top Secret Security Clearance (SSBI) or ability to qualify to receive one
- Ability to work long hours or weekends to meet deadlines or fix critical problems
- Keen understanding of both IF & RF level and distribution
- Be able to perform EIRP, G/T, and level analysis.



- Strong working knowledge of current and legacy RF modulation and error correction techniques including: 8PSK, QPSK, RS, Viterbi, TPC and effects of various FEC coding rates.
- Experience with iDirect platform, both End User and Hub implementation procedures
- Experience with link budgets
- Knowledge of IP
- Strong knowledge of TDMA, SCPC, DVB and DVB-S2 technology
- Ability to use applicable test equipment including RF Spectrum Analyzer and Power Meter
- Excellent English verbal and written communication skills

**Optional/Preferred Skills:**

- Knowledge of AC and DC Electrical Systems inclusive of back-up power generation and support, HVAC Systems, Fire Support Systems, etc.
- Knowledge of technical disciplines as associated with operations in the inside and outside plant environments a plus.
- iDirect Basic and Advanced IOM Certification
- Cisco CCNA Certification
- Bachelors Degree in a related field.

Equal Employment Opportunity

M/F/D/V