



Job Description
SATCOM Modem Engineer

1. **JOB TITLE:** Satellite Communication Modem Engineer
2. **LABOR GRADE:** N/A
3. **SECURITY CLEARANCE:** Ability to obtain a Government security clearance required
4. **PHYSICAL REQUIREMENTS:** Ability to lift a minimum of 25 lbs. Must be able to travel by air up to 10% of the time.
5. **EDUCATION:** BS in Electrical Engineering, Computer Science or related Math / Science degree, Graduate technical degrees are desired but not required. iDirect, ViaSat and or CCNA certifications are highly desirable with minimal experience in networking protocols, C/C++/C#, Python, Linux etc.
6. **PREVIOUS EXPERIENCE:** A minimum of five years of software / hardware test and validation of SATCOM terminals / modem / hub / satellite networks (TDMA, FDMA, SCPC, DVB-S2). Work experience in radio frequency test and measurement is also desired.
7. **JOB REQUIREMENT SUMMARY:** Provide engineering test data, analysis and reporting on the software and hardware performance of (TM) communications products.
 - 7.1 Serve as an engineer in the development of company's modem modules thru analysis, troubleshooting and resolving product prototype issues. Emphasis on iDirect 900 series, ViaSat CBM-400/Linkway S2 and Comtech modems within satellite networks.
 - 7.2 Experience in the operation, setup and configuration of satellite networks from both hub and remotes sides including routing and switching of TCP/IP packets.
 - 7.3 Validate internal and external software requirements for company's integrated modem modules.
 - 7.4 Ability to analyze product failure data and manufacturing test trends, troubleshoot yield issues and recommend product / testing improvements.



- 7.5 Write and execute acceptance test procedures and first article test, including the transfer of engineering documentation, setup and operation to production ready procedures and standards.
 - 7.6 Experience in the design and setup of test fixtures to support company's modem integration and SATCOM communication systems.
 - 7.7 Customer Support of technical inquires, including over the phone and on-site troubleshooting and resolution.
 - 7.8 Execute, train and demonstrate company's SATCOM terminals in live networks for business development, engineering, operations and customer demonstrations, when required.
 - 7.9 Ability to operate and or learn to use RF test instruments including digital voltmeter, oscilloscope, spectrum analyzer, power meter, signal generator etc.
8. **SUPERVISION:** Manager, Digital Systems Group
 9. **TRAINING PERIOD:** Responsibility of position requires minimal orientation period. Continual development process through reading materials, seminars, conferences, trade shows, etc.