

Opportunities are Available!

Opportunities are available for an internship position with ViaSat. The exact title and description of the work has not been confirmed, but the company is accepting applications for an internship similar to what was offered the past couple of years.

Company Background



ViaSat (www.viasat.com) produces innovative satellite and other digital communication products that enable fast, secure, and efficient communications to any location. We bring today's new communication applications to people out of reach of terrestrial networks, in both the commercial and government sectors, with a variety of networking products:

- Satellite networks for fixed-site and mobile communications
- Satellite antenna systems
- Wireless datalinks and terminals for combat situational awareness
- Information security for military networking
- Mobile IP networking for soldiers
- Communication microprocessor chipsets
- Application and communication acceleration
- Satellite network system design
- Communication simulation and training systems.

Internship Descriptions

Although the description is not yet confirmed on the exact nature of this year's internship, it may be similar to what has been offered in previous years. Below are the links to the Spring 2009 and Spring 2010 internship opportunities that were offered.

[Spring 2009](#)

[Spring 2010](#)



Team Intern Program

Project Description

Mechanical Engineering (Packaging) of an expansion chassis for the Blue Force Tracking (BFT) product. Goal of the program is to explore packaging concepts and materials to design and fabricate a concept prototype of an expansion chassis to allow integration of additional functions to extend the capability of the BFT terminal to support additional routing and communication functions. Investigate low cost packaging materials and concepts that will support environmental requirements. Investigate SWaP (Size, Weight, and Power) tradeoffs as they relate to a convergent platform and radio infrastructure. Key task in this effort is to evaluate environmental and user operational constraints as it relates to packaging design. Prototype design to use ViaSat's Solidworks toolbase. Thermodynamic modeling of the package will be necessary. Investigation of manufacturing technology and recommendations will also be included. Evaluation of SWaP as it relates to heat transfer, IO connectors, electronics, and other radio infrastructure components will be part of the evaluation and design criteria. The team will generate a prototype design. This is a full-time, paid internship for 10-12 weeks starting late May, 2009.

Summary: Team will evaluate expansion chassis options and make recommendations, evaluate cost and SWaP trades. Team will develop Solidworks model, perform thermal analysis and fabricate a Proof of concept prototype assembly

Intern Qualifications:

1. Intern 1
 - a. US Person (Citizen or Permanent Resident)
 - b. Engineering Physics Background
 - c. Material Science Background
 - d. Basic understanding of Heat Transfer
2. Intern 2
 - a. US Person (Citizen or Permanent Resident)
 - b. Mechanical Engineering Background
 - c. Understanding of Solidworks Design Tools
 - d. Background in Manufacturing Technology
 - e. Material Science Background
3. Intern 3
 - a. US Person (Citizen or Permanent Resident)
 - b. Electrical Engineering Background
 - c. Will Evaluate circuit power and size reduction



ViaSat



Summer Team Internship Opportunities at ViaSat

Public Safety Hybrid Networks: Evaluate the market for a terminal architecture that can concurrently host a hybrid Beyond-Line-of-Sight satellite communications (Ku/Ka) datalink and a Line-of-Sight (P-25 and/or TETRA) public safety network, and demonstrate its operation. The team will evaluate and document use cases that illustrate key benefits of hybrid systems for public safety applications, evaluate user requirements and profile use cases. 4 students including MBA, CE, CS and EE with understanding of processor architecture, object oriented SW development, Verilog, VHDL and XML. US citizens and permanent residents welcome.

And many other opportunities...

EIP Spring 2010



*Recognized for
growth and stability
ViaSat is well known as
a successful, innovative,
high-growth company.*

200 Best Small Companies in America – *Forbes*

100 Best Small Corporations – *Business Week*

Check ViaSat out today at www.viasat.com



Team Intern Program Request

Project Name: Simulation Systems Group (SSG) SiPC Development

Project Description:

The objective of this effort will be to convert an existing RF simulation Unix based User Interface (UI) into a PC Windows UI. The effort will include evaluation of existing UI components including menus, interfaces, and file structures and the definition and development of equivalent functionality in a Windows PC based UI using C. In addition, this effort will also include development of real-time software executing on a PMC/PCI target processor physically located in a desktop PC PCI slot. The PMC/PCI target software will be written in C, will execute in a real-time VxWorks environment, and communicate with the Windows UI running on the host PC. The real-time software will implement simulator functionality associated with motion of simulated platforms and generation of data necessary to control RF generation hardware also located within the host PC. The challenges for this effort include working with existing code, design of new interfaces between UI and real-time software modules, and the ability to translate between high level system functionality and the associated software implementation. The final result will be a fully functional Simulation in a PC (SiPC) system capable of generating user defined RF signals.

Resource Description:

Engineer 1 Discipline: CS Citizenship Requirement: US Citizen US Person None

Role: Windows user interface development

Special Skills: 1 Windows and Unix

 2 User Interface

 3 C language

Engineer 2 Discipline: CE Citizenship Requirement: US Citizen US Person None

Role: Development of PMC/PCI target real-time software

Special Skills: 1 Software development - C language

 2 Real-time software experience and/or low level code

