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RF Design Engineer - Co-op-110000034X

Description

With operations in 130 countries, Alcatel-Lucent is the first truly global communications solutions provider, offering the most complete end-to-end portfolio of solutions and services in the industry. Our passionate and experienced team converts challenges into opportunities in the areas of third-generation mobile networking, metro optical and packet, circuit-to-packet, broadband access, advanced network and professional services, and next-generation operations support systems.

Our Regional Services Delivery Americas team is looking for a student co-op! The co-op will have to maintain all RF design data produced nationwide. This will also involve analyzing and preparing reports based on the RF designs. The co-op will interface with ALU personnel to help prepare presentations and all archiving activities.

Responsibilities include, but are not limited to:

- Gain knowledge of the RF design and planning tools - ATOLL and ACCO.
- Organize and archive RF design data for nationwide markets
- Assist RF Design Manager in business proposals.
- Validate and analyze Design input data, and format and compile all required output reports.
- Understand all design assumptions for assigned market, including antenna database, morphology classes, coverage boundaries, site database, hotspots, service expectations, traffic data, regulatory data (ASAC/FAA/FCC).
- Understand Link Budget from the RF Design Guidelines.
- Create a project in Atoll on suitable PC platforms. Load the terrain, clutter, antenna database, coverage boundaries, site database, traffic data, and detailed maps for the area (streets, major highways, local roads). Identify geographical features not in the terrain and clutter databases. Incorporate path loss model, design assumptions and link budget data in design, Produce traffic maps and run predictions and simulations as described in the RF Design. Establish an internal design review with ALU employees. Study the RF design coverage maps and identify problem areas in terms of coverage, interference, or pilot pollution. Understand how to implement changes in various network parameters including translation parameters, antenna configurations, etc.
- Generate final design documents and presentations, and present to ALU engineers.

***The Alcatel-Lucent student co-op program runs parallel to a student's current class work allowing them to remain in school while gaining work experience.
Co-op's must be actively pursuing an undergraduate or graduate degree to be eligible for the program.***

Qualifications**Required:**

- Pursuing a Bachelor degree or higher in Electrical Engineering or related discipline from an accredited university or college
- Essential: Electromagnetic Fields, Communications
- Essential/Familiar: MS Office (Excel, Word, ppt)
- Familiar: Any other programming skills

Desired:

- Motivated, pro-active and a quick learner.
- Good communication and people skills.
- Team player
- Good organizational skills.

Job

Architecture

Primary Location

United States-New Jersey-Murray Hill

Schedule

Full-time