



Systems Engineer

Cartel Communication Systems Inc., Langley BC

About Cartel

Founded in 1981, Cartel provides a wide range of products and services for government, industry, and enterprise-driven telecommunications applications across Canada, including advanced 4G wireless coverage enhancement, mission-critical voice logging, and dispatch solutions, TETRA and Digital Mobile Radio systems, as well as integrated site monitoring command and control systems. Our Langley, BC head office houses large warehousing, and engineering facility for systems design and manufacturing, and our branch offices span Canada to better serve our customer base.

The Systems Engineer will advance the strategic direction of Cartel by providing capacity and capability within the Engineering team. The Engineering department is tasked with the design and engineering of solutions to support our clients' needs and objectives. The Systems Engineer will provide skilled labour based on a broad range of telecommunication skill sets from network engineering and telecommunication power design to wireless communication systems and telephony. The position is predominantly tactical but will feed into the strategic vision of the Engineering team. Ultimately it is core to the success of the entire Cartel organization.

Critical to the role is the ability to deliver a level of quality that aligns with a Centre of Excellence and Cartel's pursuit of ISO 9001:2015 accreditation. The Systems Engineer ensures that our designs, drawings, and documentation are aligned with our standards in quality and meet the objectives of the project deliverables. The Systems Engineer will be gifted in critical thinking and creative problem-solving. The position is essential to the daily success of Cartel.

Responsibilities:

Design

- Responsible for and have hands-on experience in systems engineering within networking, wired and/or wireless telecommunications disciplines.
- Produces detailed design documentation in the form of studies, reports, and drawings. All of which is done in common design tools such as AutoCAD, MicroStation, iBwave, Visio, and other Office products.
- Experience in responding to request for proposals, developing needs assessments, and performing requirements gathering.
- Knowledgeable and experienced in performing RF field surveys utilizing industry-standard scanning equipment.
- You must have experience in coverage test methods for a variety of technologies including interpretation of TIA standards.

- Knowledgeable and experienced in the standard distributed antenna system construction techniques and approaches.
- Knowledge and understanding of 3GPP standards, and the practical and commercial implications.
- Should be highly capable with signal prediction software such as iBwave EDX suite of products, and Path Loss. Alternate software experience will also be considered.
- Understanding of telecommunication construction standards.
- Engages in high standards for engineering and design through the use of quality practices.
- Established relationships within technology verticals and can create multi-vertical solutions as part of a diverse technical team.

Implementation – Project Delivery

- You must have hands-on experience with the configuration and commissioning of enterprise networking equipment such as switches, routers, and firewalls.
- Experience in configuration and commissioning of RF technology including distributed antenna systems, base-station equipment, and repeaters.
- Hands-on experience with general telecommunications technologies such as PBX, MUX/DEMUX, Microwave Backhaul, T1/PRI, IVR, Fiber optics, DOCSIS, DSL, and TIA-568.
- Experience working in design teams comprised of multiple engineering disciplines
- Experience running customer-focused solution demonstrations as part of project acceptance processes
- Experience in implementing networks for Transit (Metro, Light & Class 1 Rail), Public Safety and Healthcare.
- Provides educational and general technical support and acts as a technical advisor to internal and external clients
- Protects business operations by keeping confidential information secure; with access to project-based financial information, security, and confidentiality are paramount.

Professional Development

- Maintains professional and technical knowledge by attending educational workshops, reviewing product publications, attending sales, and product training seminars.
- Stays apprised of technical advancements in the industry.
- Actively shares knowledge with direct reports on new or developing technological innovations that will be key to Cartel's ongoing competitiveness and the success of ongoing and future project design and deliverables.
- Driven to be technically curious and resourceful.

Required Skills and Qualifications:

- Minimum seven (7) years of hands-on experience in systems engineering within networking, wired and/or wireless telecommunications disciplines.
- Minimum five (5) years producing detailed design documentation in the form of studies, reports, and drawings. All of which is done in common design tools such as AutoCAD, MicroStation, iBwave, Visio, and other Microsoft Office products.
- Minimum five (5) years' experience responding to request for proposals, developing needs assessments and performing requirements gathering.
- Minimum two (2) years' experience in coverage test methods for a variety of technologies including interpretation of TIA standards.
- Minimum three (3) years of hands-on experience with configuration and commissioning of enterprise networking equipment such as switches, routers, and firewalls.
- Minimum three (3) years of hands-on experience with configuration and commissioning of RF technology including distributed antenna systems, base-station equipment, and repeaters.
- Minimum three (3) years of hands-on experience with general telecommunications technologies such as PBX, MUX/DEMUX, Microwave Backhaul, T1/PRI, IVR, Fiber optics, DOCSIS, DSL, and TIA-568.
- Excellent client-facing communication skills. Dedicated to meeting or exceeding the expectations and requirements of internal and external customers.
- Works well in team settings and independently when required. You will be communicating using a wide range of mediums so be prepared to email, talk, and text to work through challenging activities.
- Must have the ability to engage with and manage relationships with a varying degree of client roles across a broad range of industries.
- Learns quickly when facing new problems; open to change; analyzes both successes and failures for clues to improvement; experiments and will try anything to find creative solutions; enjoys the challenge of unfamiliar tasks; quickly grasps the essence and the underlying structure of anything.
- Picks up on technical knowledge quickly; can learn new skills and knowledge; is good at learning new industry, the company, product, or technical knowledge; does well in technical courses and seminars.

Cartel offers a competitive salary, bonus program, allowance, and travel expense, as well as extended health benefits and professional development allowance. If you are interested and meet the above criteria, please provide a resume, and cover letter to careers@cartelsys.com

Cartel is an equal opportunity employer and welcomes applications from all interested parties. We thank you for your interest, however, only those candidates selected for an interview will be contacted.

Learn more about Cartel at:

www.cartelsys.com