

Senior Network Administrator

Duration:

Indeterminate, Full Time - Nine (9) Month Probation Period

Division:

Information Management Unit (IM)

Salary:

\$66,865.50 - \$90,265.50 per year (37.5 hours per week)

Deadline To Apply:

April 20, 2026 4:00 pm

Details

Purpose:

Ensures the stable, secure, and efficient operation of the Mohawk Council of Kahnawà:ke (MCK) computer network infrastructure across all organizational sites. Oversees the planning, development, installation, configuration, maintenance, and optimization of network hardware, software, and communication systems. Provides advanced technical support, resolves complex network issues, and contributes to strategic

planning for network growth and modernization.

Roles & Responsibilities:

Strategy & Planning

- Contributes to the development, implementation, and maintenance of service level agreements, procedures and associated training plans as a subject matter expert in the areas of network resource administration, appropriate use, and disaster recovery.
- Work in close collaboration with other IM Team members.
- Network Architecture & Roadmap: Develop and maintain the multi-year network architecture roadmap aligned to business goals, security standards, and budget constraints (on-prem, hybrid, and cloud networking).
- Capacity & Resilience Planning: Forecast bandwidth, throughput, and hardware lifecycle needs; design for redundancy, failover, and disaster recovery.
- Security by Design: Partner with cybersecurity to embed Zero Trust principles, segmentation, least privilege, and secure remote access into network designs and change plans.
- Author and maintain network standards, configuration baselines, and operational runbooks; contribute to change control and governance processes.
- Risk Management: Identify technology risks, assess vulnerabilities, and plan mitigations; ensure compliance with applicable frameworks (e.g., CIS benchmarks, ISO 27001, NIST).
- Stakeholder Engagement: Translate business requirements into technical solutions; provide architectural guidance to infrastructure, security, collaboration, and application teams.
- Technology Evaluation: Track industry trends; conduct proofs-of-concept and comparative analyses to inform build vs buy decisions and modernization priorities.

Acquisition & Deployment

- Solution Selection: Define requirements, evaluate vendors, and recommend solutions for switches, routers, firewalls, Wi-Fi, network monitoring, DNS/DHCP/IPAM (DDI), and SD-WAN.
- Procurement Support: Develop bills of materials (BOMs), licensing models, and total cost of ownership (TCO); support RFPs/RFQs and vendor negotiations.
- Implementation & Migrations: Lead deployments, upgrades, and migrations (e.g., data center, branch, Wi-Fi refresh, IPv6, cloud interconnects/ExpressRoute/Direct Connect).
- Configuration Management: Implement infrastructure-as-code or standardized templates for consistent, auditable configurations (e.g., Ansible, Git).
- Testing & Validation: Build test plans, conduct performance and failover testing, and document acceptance criteria prior to cutover.
- Documentation & Handover: Create as-built documentation, topology diagrams, IP addressing plans, and knowledge articles; train support teams.

Operational Management

- Monitoring & Reliability: Maintain proactive monitoring, alerting thresholds, and SLOs for availability, latency, and packet loss using NMS and observability tools.
- Incident & Problem Management: Serve as Tier-3 escalation; lead root cause analysis (RCA), corrective actions, and post-incident reviews.
- Change & Release: Plan and execute maintenance windows; follow change management processes with risk assessment, rollback plans, and communication.
- Security Operations: Manage firewalls, VPNs, IDS/IPS, network access control (NAC), and segmentation policies; remediate vulnerabilities and configuration drift.
- Performance & Optimization: Analyze traffic, QoS, and bottlenecks; tune routing, spanning-tree, channeling, and wireless RF parameters for optimal user experience.
- Lifecycle & Asset Management: Track hardware/software lifecycle, licenses, and support contracts; plan refreshes and firmware/OS patching.
- Backup & DR: Ensure configuration backups, offsite storage, and restore testing; participate in DR exercises and business continuity planning.
- Team Leadership: Mentor administrators, review change plans, and provide technical leadership across cross-functional projects.

Education & Experience:

- Education: Diploma or Bachelor's in Information Technology, Computer Science, or related discipline; or equivalent experience.
- Experience: 7–10+ years in network administration/engineering with progressive responsibility in enterprise environments.

Knowledge, Skills, Abilities:

- Switching/routing (e.g., Cisco, HPE/Aruba, Juniper), BGP/OSPF/EVPN, VLANs, STP, LACP, QoS.
- Firewalls and security platforms (e.g., Palo Alto, Fortinet, Cisco Firepower), VPN (IPsec/SSL), IDS/IPS, NAC (e.g., ClearPass, ISE).
- Wireless design & operations (site surveys, RF design, WPA2/3 Enterprise, 802.11ax/6E).
- SD-WAN and WAN optimization; load balancing (L4–L7).
- DNS/DHCP/IPAM, NTP, PKI fundamentals.
- Cloud networking (Azure vNet/Firewall, AWS VPC/Transit Gateway, routing, private endpoints, ExpressRoute/Direct Connect).
- Automation & scripting (Ansible, Python, PowerShell), Git-based workflows.
- Monitoring/observability (e.g., SolarWinds, PRTG, ThousandEyes, NetFlow/sFlow, SIEM integrations). Knowledge of data privacy standards.
- Strong written/oral, and interpersonal communication skills.
- Ability to conduct research into networking issues and products.
- Ability to present ideas in user-friendly language.
- Highly self-motivated and directed.
- Keen attention to detail.
- Proven analytical and problem-solving abilities.
- Ability to effectively prioritize and execute tasks in a high-pressure environment.
- Strong customer service orientation.
- Experience working in a team-oriented, collaborative environment.

- Demonstrates professionalism, discretion, and courtesy when interacting with internal and external clients, fostering positive and respectful working relationships.
- Maintains confidentiality.
- Adhere to the MCK Policies and Kanien'kéha Language initiatives.
- Ability to communicate in the Kanien'kéha and French languages is an asset.
- The willingness to learn the Kanien'kéha language.

Working Environment:

- Five-day work week in an office environment.
- Moderate stress due to workload.
- Occasional overtime or on-call work may be required.

Requirements:

Please address your application to MCK Human Resources. Forward your complete application via e-mail only to: **Applications@mck.ca**

- Ensure complete applications are submitted, including Letter of Intent and Resume. Incomplete applications may not be considered.
- Only candidates selected for an interview will be contacted.
- Preference will be given to Indigenous candidates.
- When adding attachments, please use PDF format. Any other formats may be blocked from our system.

ALL REQUIRED DOCUMENTS MUST BE SUBMITTED BEFORE THE DEADLINE FOR YOUR APPLICATION TO BE CONSIDERED.

To Apply:

Email your applications with all the required documents to **applications@mck.ca**