About Us:

CENGN is Canada’s Centre of Excellence in Next Generation Networks. Our mission is to drive technology innovation and industry growth through our test bed, technical expertise, talent development, and partner ecosystem, to enable economic strength and prosperity as well as innovation and competitiveness for Canada in the high-growth global multi-trillion-dollar Information and Communications Technology (ICT) industry.

CENGN collaborates with national and global technology leaders, the public sector, and academic partners, to solidify Canada’s leadership in next generation networks for the benefit of all Canadians. Our members and partners are a crucial part of CENGN’s operation, providing us with the technologies and support needed to enable our service offerings to Canadian small and medium enterprises (SMEs).

By providing Canadian SMEs with the infrastructure and expertise required to test their products, these growing businesses can overcome commercialization barriers. CENGN provides SMEs with full support of the development, validation, and exposure of their innovative solutions. CENGN also develops talent through co-op and internship opportunities as well as training offerings for professionals.

CENGN’s ecosystem includes members Bell Canada, Cisco, EXFO, Invest Ottawa, Juniper Networks, Mitel, Nokia, Ribbon Communications, TELUS, and Wind River. CENGN also partners with the federal government through the Networks of Centres of Excellence (NCE) and the Ontario government through the Ontario Centres of Excellence (OCE).

What We offer:

• The benefit of an agile company in a modern setting where your ideas and opportunities for growth are nurtured and encouraged
• The gain of working with cutting edge and relevant technology
• The opportunity to work in our state of the art physical and virtual multi-vendor, test, certification and validation platform which provides a unique environment to commercialize advanced products, applications and services
• The chance to be part of the growth of a Canadian company driven by providing opportunity for Small & Medium Enterprise (SME) Canadian companies to succeed
• The advantage of working with colleagues passionate about their individual contributions to CENGN
• The experience of developing and deploying wired and wireless technologies that are utilized by applications such as cloud, wireless 5G, autonomous vehicles, broadband Internet and cybersecurity
• A company which embodies its values of:
  o Passion for our mission and empowered to make an impact
  o Integrity in an open, agile, and collaborative environment
  o Accountable and customer focused with a commitment to exceeding expectations
  o Flexible and diverse work environment with a sense of belonging
• A flexible environment where output of work if valued beyond input of time, resulting in optimized work/life balance through modern flexible work arrangements
• Multiple avenues for career development and continuous learning
• Top-Notch Health Benefits Package
• Employer paid RSP Contribution
• 15 days annual vacation allowance with additional personal and sick days
• Select paid holiday shutdowns
• Annual fitness allowance

For more information, visit www.cengn.ca
The Opportunity:

We are seeking a highly skilled and motivated individual for the Centre of Excellence in Next Generation Networks (CENGN’s) Engineering team. Reporting to the VP Engineering Operations, the candidate will work with senior levels of technical engineers and leaders to plan, develop, support, and operate the different components of the CENGN platform comprised of a hybrid cloud environment. This environment integrates various CENGN partner in-kind contributions into one cohesive system capable of accepting test and verification projects from CENGN’s membership. The candidate will manage CENGN’s cloud native platform built around a modern automation framework and contribute to its continuous development. The infrastructure is built based on direct contributions (h/w, s/w, services and engineering) from CENGN’s membership as well as open source leading projects from the Linux foundation and Cloud Native Computing Foundation (CNCF) thus creating CENGN’s multi-vendor testbed platform.

Key Responsibilities:

Due to the rapid evolution of the emerging cloud and networking technologies for which CENGN is in the forefront; the SRE Manager plays an important role in continuously developing and operating the CENGN Testbed and services that are available internally to the CENGN organization as well as externally to any CENGN customer or partner. The candidate will account for the following:

- Lead team of Site Reliability and Cloud Infrastructure Engineers including the continuous development and mentoring of both full time and temporary student interns
- Establish priorities and distribute workload across the Engineering team utilizing Agile methodology
- Define initial project scope based on system requirements
- Support the Project Management team in the creation of documents clearly articulating project timeline, milestone and gaps to execution
- Develop and advise on critical services running in automation driven, highly available production environments
- Automate, monitor, and maintain platform and security infrastructure for both physical and virtual components of the CENGN hybrid cloud platform
- Develop, debug, and execute automation code to support the operations of CENGN services
- Deploy and validate physical and virtual platform components and supporting tools

Key Competencies/Qualifications:

Candidate Must have:

- Ability to effectively lead, communicate and motivate an engineering team
- Ability to establish priorities and identify requirements at the onset of each new project
- Ability to communicate industry trends and understand complex technical topics
- Expertise in UNIX/LINUX operating systems: RedHat, CentOS, Canonical Ubuntu, FreeBSD and other opensource distributions
- Expertise in automation tools for modern application deployments (Docker, Kubernetes, infra-as-code, RESTAPIs)
- Expertise in virtualization technology like OpenStack (preferred), KVM
- Expertise in system design and operations in Public Cloud environments (AWS, Azure, and/or GCP)
- Expertise in one or more of the following automation tools or languages: Python, Go, Terraform, Ansible
- Expertise in system design and operations of highly available and distributed systems using containerization
- Expertise with Software Defined Storage (SDS) solutions like Ceph (preferred), NetApp, VMWare, Longhorn

Preferred Qualifications

- Expertise in leveraging collaboration tools for agile inter and intra-team communication and incident response (Jira, Confluence, Git, Teams)
- Contribution to Open Source technologies: Docker, Kubernetes, Cilium, Ceph
• Certifications from Cloud providers (AWS, Azure, GCP)
• Certifications from organizations supporting open source development (Linux Foundation, RedHat)
• Ability to provide guidance to team members to develop problem-solving skills and root-cause analysis
• Experience with developing and operating CI/CD pipelines
• Experience working with IPAM and DCIM software (NetBox)
• Understanding of IP, BGP, MPLS, and/or Segment Routing based networks
• Experience in network security and operations with firewalls, IPS/IDS, and encryption
• Experience in automating, configuring, and working with networking devices from various vendors including Cisco, Juniper, Nokia, Arista and whitebox equipment
• Experience with deploying and maintaining hardware in a datacenter environment (racking, cabling, power, cooling)
• Participate in and evaluate proof-of-concepts for emerging cloud technologies to support CENGN cloud infrastructure
• Highly motivated to gain experience in R&D engineering/DevOps environments
• Sound judgment and ability in handling matters of a confidential and/or sensitive nature
• Ability to communicate effectively
• Ability to work independently
• Ability to learn and adapt quickly to changes
• Familiarity with driving Agile methodology

Education & Experience:

• Minimum 5 years of experience in a progressive leadership role
• Bachelor’s degree or College Diploma in Engineering or Computer Science or related discipline

Languages:

• English oral, reading and writing
• French oral, reading and writing would be considered an asset

Interested and qualified candidates are invited to forward their resume in confidence to CENGN by email to hr@cengn.ca. Please use “Site Reliability Engineer Manager– Engineering-Operations” as the subject line.

CENGN thanks all applicants for their interest, however, only those selected for an interview will be acknowledged. CENGN is an Equal Opportunity Employer.