Position: Solutions Engineering Student

Term: Summer 2019 (April 29, 2019 – August 30, 2019)

About Us:

CENGN is the Centre of Excellence in Next Generation Networks. Our mission is to accelerate the growth of the Canadian Information and Communications Technology (ICT) sector, enabling economic strength and prosperity, as well as innovation and competitiveness in this high-growth global multi-trillion dollar industry.

Through our leading-edge technology infrastructure and expertise, and the creation of a globally recognized ecosystem of partners, CENGN helps Canadian small and medium enterprises overcome commercialization barriers and grow. CENGN collaborates with top ICT multinationals, the public sector, financial institutions, and academic partners, to solidify Canada's leadership in next generation networks for the benefit of all Canadians.

CENGN's ecosystem includes members Bell Canada, Cisco, EXFO, Huawei, Invest Ottawa, Juniper Networks, Mitel, Nokia, Ribbon Communications, Rogers, TELUS, and Wind River. The company 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 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 benefit of a small company in a modern setting where your ideas and opportunities for growth are nurtured and encouraged
- The advantage of working with colleagues passionate about their individual contributions to CENGN
- 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 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

For more information, visit www.cengn.ca

The Opportunity:

We are seeking highly skilled and motivated individuals to join CENGN's Solutions Engineering team for a 4-month Co-op term. The Solutions Engineering team is responsible for advising and supporting Canadian tech startups as they execute projects on the CENGN infrastructure. Projects at CENGN range from proof of concepts, to technology validations, to complex scaling tests, each involving an exciting mix of hardware and software technologies.

The Solutions Engineering team play a pivotal role as the delivery engine of CENGN. We possess a core set of practical skills in networking and computing technology, which we then apply to help a wide range of Canadian tech companies design and execute projects on the CENGN infrastructure.

Solutions Engineering co-ops work side-by-side with CENGN's expert team of engineers, marketers and business development professionals and contribute directly to the execution of projects with some of Canada's most promising tech startups. The students will develop hand-on experience with the latest cloud computing and networking technologies.

Being a co-op on the Solutions Engineering team means living and learning on the leading edge of networking and computing innovation, tackling new technical challenges every day, and making a real difference to the Canadian startups that are defining our future.

Co-ops start their term at CENGN by going through our boot camp to gain hands-on experience with the latest cloud technologies (OpenStack, Docker, Kubernetes), next generation networking principles (software-defined networking), and general professional and collaboration skills.

This position involves participation in events which may require the student to be available outside normal working hours on a few occasions during the placement. Applicants should expect to be required to work irregular hours 1-3 times during the contract.

Key Responsibilities:

As an integral part of the Solutions Engineering team, the student will have the opportunity to contribute to all aspects of CENGN's projects with our start-up customers. This includes important contributions to:

- Working with startups to understand their business needs and design technical projects accordingly
- Provisioning, configuring, and customizing cloud environments in which to run projects
- Advising and supporting startups as they execute their projects
- Post-project system decommissioning
- Creating project reports and presentations, and delivering them other teams within CENGN

Additionally, the student will undertake an independent, term-long technical project that materially contributes to CENGN's Solutions Engineering capabilities.

Key Competencies/Qualifications:

- Academic understanding **or** hands-on experience with: networking and systems principles, hypervisor architecture and principles, and programming
- Academic understanding **or** hands-on experience with **some** of the following: Linux, OpenStack, Docker, Kubernetes, hypervisors, networking, open source projects, Python, shell scripting, public cloud platforms (AWS, Heroku, Azure, Google, etc)
- Keenness to learn and a knack for problem-solving
- Ability to work both autonomously and collaboratively with a team
- Any of the following would be considered an asset:
    - Code available for review in GitHub or other public repository
    - Interest in business and working with tech startups
    - Experience using Atlassian toolset: Confluence, JIRA

Education:

- Post-secondary term in Engineering, Computer Science, Networking, IT or related discipline

Eligibility

Students who are enrolled or have graduated from post-secondary institution programs which provide the relevant background and aptitude to work and enhance their skills as per the requirements of CENGN's listed student postings will qualify for internships under this program.

- Students can be at the undergraduate level (current students) or graduate level (current masters and PhD students), or they may be recent undergraduate and master graduates within three years of graduation from an Ontario-based post-secondary institution
- The student must be eligible to work in Ontario and have employee status at the company for the duration of the internship. Canadian citizen, permanent resident, or on a work/student visa
- The student may not apply with a company where there is any conflict of interest, including, but not limited to, a company where the student or relatives have any control as a major creditor or shareholder or governing board
- As a condition of employment and in accordance to CENGN's Code of Conduct Policy, all students must maintain a clean criminal record. CENGN engages a third party provider to verify student backgrounds prior to the start of the internship

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 **student-hr@cengn.ca**. Please use "**Solutions Engineering Student**" as the subject line.

CENGN reserves the right to remove this posting prior to the application deadline. CENGN thanks all applicants for their interest, however, only those selected for an interview will be acknowledged. CENGN is an equal opportunity employer.