

Position Description

Senior Network Engineer

Position No:

Business Unit: Chief Operating Officer (COO)

Division: Information Services (IS)

Department: Cloud, Infrastructure & Service Delivery

Classification Level: HEO8

Employment Type: Full-Time, Continuing

Campus Location: Position based at Melbourne (Bundoora) campus

Other Benefits: <http://www.latrobe.edu.au/jobs/working/benefits>

Further information about:

La Trobe University - <http://www.latrobe.edu.au/about>

Position Context/Purpose

The Senior Network Engineer at La Trobe University plays a pivotal role in managing the university's Cisco software-defined network (SDN), focusing on its design, implementation, and optimisation. Reporting to the Senior Manager, Networks and Facilities, this position is instrumental in ensuring the reliability, scalability, and performance of the network infrastructure. The Senior Network Engineer provides expert technical leadership, oversees network engineering projects, and collaborates with cross-functional teams to advance the university's technological capabilities.

Duties at this level will include:

SDN Design and Implementation

- Lead the design and implementation of the university's Cisco SDN architecture, leveraging modern technologies and best practices.
- Configure and deploy SDN controllers, switches, routers, and other network devices to support campus-wide connectivity and application delivery.

Network Optimisation and Performance Management

- Proactively monitor and optimise the performance of the SDN infrastructure, identifying and addressing bottlenecks, latency issues, and other performance constraints.
- Utilise network monitoring tools to gather performance data, analyse trends, and implement optimisations to enhance network efficiency.

Project Leadership and Collaboration

- Lead SDN-related projects, from initial planning and scoping to execution and post-implementation support, ensuring projects are delivered on time and within budget.
- Collaborate with cross-functional teams, including IT operations, applications, and infrastructure, to integrate SDN solutions and support university initiatives.

Technical Expertise and Innovation

- Stay abreast of emerging technologies and industry trends in SDN, network virtualisation, and software-defined networking, evaluating their potential to enhance the university's network infrastructure.
- Provide technical expertise and recommendations to improve SDN architecture, streamline network operations, and drive innovation.

Documentation and Knowledge Sharing

- Maintain comprehensive documentation of SDN configurations, topologies, and operational procedures, ensuring accuracy and accessibility for team members and stakeholders.
- Share knowledge and best practices with colleagues, fostering a culture of continuous learning and improvement in SDN operations and management.

Essential Criteria

Skills and knowledge required for the position

- A degree with substantial extension of the theories and principles, learned through experience; or a range of management experience; or postgraduate qualifications, or progress towards postgraduate qualifications with extensive relevant experience; or an equivalent alternate combination of relevant knowledge, training and/or experience.

Technical skills required for the position

- **Network Architecture:** A solid understanding of modern enterprise network architecture principles, including designing, configuring, and optimising network topologies to meet organisational requirements. (VXLAN, and protocols MP-BGP, LISP)

- **Routing and Switching:** Proficiency in routing protocols (e.g., OSPF, ISIS, BGP) and switching technologies (Catalyst 9000 series) to ensure efficient data routing and switching within the network.
- **Wireless Networking:** Experience in designing, deploying, and managing wireless networks, including access point placement, RF optimisation, and authentication mechanisms (e.g., WPA2, 802.1X).
- **Network Monitoring and Management:** Familiarity with network monitoring tools (e.g., Nagios, SolarWinds, DNAC, ISE, Umbrella) to proactively monitor network performance, troubleshoot issues, and optimise network resources.
- **TCP/IP Networking:** Understanding of TCP/IP protocols, subnetting, IP addressing, and DNS/DHCP configuration (Infoblox) to ensure proper communication across the network.
- **Accreditations/Licences:** Hold a current valid industry recognisable accreditation (CCNA, CCNP, CCIE) and basic knowledge of any programming language (preferable Python) and Rest API's)
- **Documentation and Compliance:** Proficiency in documenting network configurations, policies, and procedures, and ensuring compliance with regulatory requirements (e.g., Privacy Act 1988) and industry standards (e.g., ISO 27001).

Capabilities required to be successful in the position

- Technical expertise and leadership to design, implement, and optimise Cisco SDN solutions that meet the university's requirements and objectives.
- Collaboration and teamwork to work effectively with cross-functional teams and contribute to university-wide initiatives in SDN and network infrastructure.
- Innovation and creativity to explore new SDN technologies and solutions that enhance network performance, scalability, and agility.
- Communication and knowledge sharing to document SDN designs, troubleshoot issues, and share expertise with colleagues and stakeholders.
- Adaptability and resilience to thrive in a dynamic and evolving SDN environment, with a focus on delivering high-quality results and customer satisfaction.

Essential Compliance Requirements

To hold this La Trobe University, position the occupant must:

- hold, or be willing to undertake and pass, a Victorian Working With Children Check; AND
- take personal accountability to comply with all University policies, procedures and legislative or regulatory obligations; including but not limited to TEQSA and the Higher Education Threshold Standards.

Other Information

The position description is indicative of the initial expectation of the role and subject to changes to University goals and priorities, activities or focus of the job.

Position Flexibility

We offer flexible work arrangements that can assist you in balancing your work and other responsibilities.

Why La Trobe:

- Develop your career at an innovative, global university where you'll collaborate with community and industry to create impact.

- Enjoy working on our inspiring and stunning campuses – the perfect hub for industry, students and academics
- Help transform the lives of students, partners and communities now and in the future

This is more than just a job. Working at La Trobe offers opportunities to demonstrate excellence and transform lives.

Here, you'll join exceptional people, partners and communities, who power our operations with ambition and purpose.

Our success can be attributed to its strong sense of community. We have a long-standing commitment to diversity, inclusion and social justice; we are committed to providing a workplace where all staff feel valued, respected and supported to achieve their full potential. We strive to build a workplace where all employees of diverse backgrounds, abilities, experiences, sexuality, gender, religion and age are welcome, valued, respected and one that is representative of our community. We demonstrate our cultural qualities by holding ourselves accountable and creating a culture of trust and innovation while genuinely caring for one another.

La Trobe's Cultural Qualities:

WE ARE CONNECTED



We are **connected** to each other and the communities around us. We engage with those communities to learn from our past, inform our present and impact our future.

WE ARE INNOVATIVE



We are **innovative** in tackling the most important issues of our time. We are inquisitive and seek to develop new ideas that positively impact the way we work and the world around us.

WE ARE ACCOUNTABLE



We are **accountable** for what we do and share a commitment to excellence. We are courageous and respectful in the way we hold ourselves and each other to account.

WE CARE



We **care** about what we do and value the power of education and research. We care about each other and strive to create a safe and inclusive community.

For Human Resource Use Only

Initials:

Date: