Position Description

SENIOR NETWORK ENGINEER

BUSINESS UNIT:	Architecture and Applications Team
REPORTS TO:	Network Architect
MANAGEMENT:	Direct reports: 0
LOCATION/S:	Melbourne, Perth
POSITION TYPE	Permanent full-time

About AARNet

Australia's Academic and Research Network (AARNet) was established in 1989 and is widely regarded as the founder of the Internet in Australia and renowned as the architect, builder and operator of world-class network infrastructure for research and education. We are Australia's National Research and Education Network (NREN).

We connect over one million users—researchers, faculty, staff and students—at institutions across Australia, supporting education and research across a diverse range disciplines including high energy physics, climate science, genomics, radio astronomy and the arts.

Nationally, AARNet interconnects Australian universities, the CSIRO, and other organisations who have a research and education mission, or with whom the education and research sector interacts. These include hospitals, vocational training providers, schools and museums. Internationally, AARNet interconnects the Australian Research and Education (R & E) community to the world – and continuously develops new capabilities and partnerships to facilitate seamless data access and transfer. AARNet also offers a suite of supporting applications to our customers. These include network and collaboration services such as CloudStor and Zoom, that enable innovation in the delivery of research and education.

We are an organisation of innovators, doers, and courageous thinkers. We are not constrained by traditional products and solutions and we constantly strive to build the solutions that our customers will need tomorrow – today. If you have the imagination, foresight and drive to build the future why not come and join us?

The Role

AARNet is seeking an experienced network engineer with a strong telecommunications networking background to join the Network Architecture team.

The role will be focused on the design and deployment of evolutions to the AARNet network and related systems, positioning AARNet as a technology leader. Extensive travel may be required across Australia.

The successful candidate will be comfortable preparing and presenting technical customer solutions, and will be an independent and self sufficient worker with the ability to think on their feet and solve problems and issues as they arise.

Responsibilities

Network Architecture, Technology and Design

- Work within cross-organisational teams to develop AARNet's overall network and technology strategies.
- Develop and implement detailed designs for evolutions to the AARNet network architecture.
- Develop and implement network automation and orchestration capabilities
- Undertake financial and cost analyses and reviews of proposed technologies and strategies to ensure the overall cost effectiveness of the proposed solutions.
- Develop test beds and proof of concept designs.
- Evaluate new technologies and advise AARNet of their relevance or benefit.
- Write and maintain operational documentation.

Engagement/Communications

- Engage with network vendors on product & technology updates and ongoing relationship building.
- Engage with AARNet customers to understand their requirements.
- Engage with the Australian and international Research and Education Community to ensure that AARNet maintains a position globally as technical leader.
- Develop and present AARNet's network capabilities to a variety of audiences, and contribute to AARNet's digital communications strategy.
- Be an active participant in the preparation of the technical sections of major bids and funding proposals.

Project Delivery

- Develop project plans and milestones around the deployment of network evolutions in conjunction with Project and Programme Managers.
- Provide procurement support for large network equipment acquisitions.
- Where required, act as the lead on field based deployments, particularly for new sites/networks and technologies.
- Produce technically and commercially accurate reports.

Leadership and Mentoring

- Provide co-ordination and technical leadership of other engineers, technicians and contractors.
- Ensure the team is kept abreast of current and new technologies.
- Produce training material to educate other AARNet technical staff.

Qualifications

- Australian Resident.
- A degree in Engineering/Telecommunications or a related field or relevant industry experience.
- Valid Australian Driver's License.

Expertise, experience & qualifications

- 10+ years' experience in the IT&T industry.
- Previous telecommunications experience as a network engineer in carrier grade implementations of MPLS, IP, Ethernet and DWDM.
- Previous experience in designing and deploying large campus or national scale optical and routed networks is highly desirable.
- Experience with Unix/Linux based systems is highly desirable.
- Experience with scripting/coding in the context of software defined networking (SDN), network management, automation and orchestration is highly desirable.
- Experienced and willing to work as part of a network deployment team as required.
- Previous experience with Cisco (CCNP-SP or equivalent) and Juniper (JNCIP-SP or equivalent) network design and support is desirable.
- Familiarity with working in an Agile or Scrum framework is highly desirable.
- Experience in a similar role will be highly regarded.
- Strong computer skills are essential.

Important skills

- Strong written and oral communication skills are essential.
- Willingness to work in a collegiate environment.
- Ability to multitask and adapt to changing prioritises.

Conditions of employment

AARNet is committed to diversity and providing equal opportunity to all. We're a great place to work if you want to make a difference. Remuneration will be based on skills and experience and will include an above market superannuation package.

How to apply

Applications, including a resume/CV and cover letter addressing the requirements of this role, should be sent by e-mail to employment@aarnet.edu.au. Closing date for applications: 24 September 2018.