



Principal Network Communications Engineer

Engineering and Design

Position Description



Alpine House
24 Elginshire Street,
Washdyke, 7910

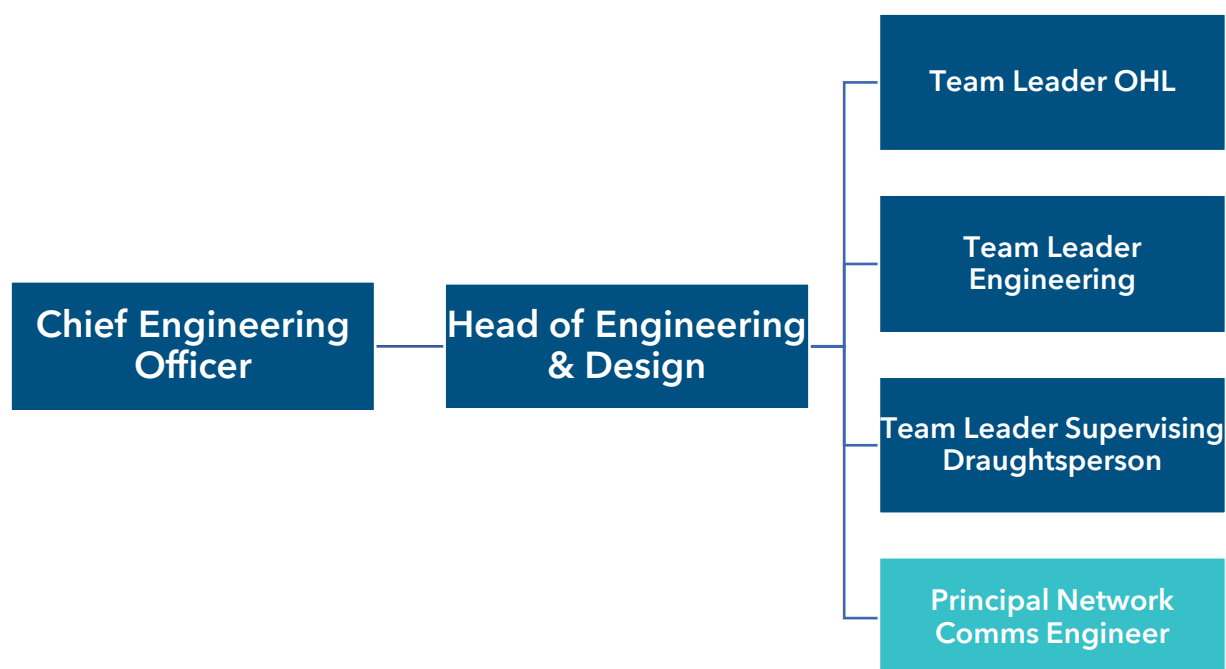
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Principal Network Communications Engineer

Position Descriptions are intended to describe the main functions and responsibilities required of the role. Position Descriptions are not to be construed as an exhaustive list of all responsibilities or duties that may reasonably be required of the incumbent in this role. Employees will be expected to perform any duties reasonably requested by the employer. Position Descriptions are subject to review to reflect changing circumstances and may be amended from time to time to take account of the role requirements that evolve over time.

Reporting to:	Head of Engineering & Design
Responsible for:	Nil direct reports
Position purpose:	<ul style="list-style-type: none">To lead the preparation of technical engineering solutions for both the annual works programme and multi-year strategic projectsTo provide strategic engineering services to the engineering and wider AEL teamTo role model AEL's approach to engineering
Last review date:	September 2024

Where you will fit



Financial Responsibilities

Authorities may change to align with organisation changes to delegations of authority.

- Controls a budget: N
- Maximum that may be spent without reference to manager: NA
- Jobholder can spend unbudgeted capital: N
- Jobholder is responsible for committing the organisation to long-term contracts: N
- Jobholder signs correspondence for Company: N

Key Relationships

It is a key responsibility that relationships must be built and maintained in such a way as to bring about positive and respectful interactions:

External

- Transpower
- Consultants
- Major Customers
- WorkSafe
- Electricity Authority
- EEA
- Engineering NZ

Internal

- Engineering team
- Drawing Office
- Service Delivery team
- Future Networks team
- People & Capability team
- Regulatory team
- Safety team
- Other Alpine employees

Strategic and Technical Engineering

You are responsible for

- Leading the design, implementation and maintenance of robust and scalable communication networks including fibre optic, microwave, DMR, LMR, VHF and UHF radio networks, to ensure optimal performance and reliability.
- Preparing designs for the installation of communications equipment, including programming radios, routers, and relevant communication devices, and managing the testing and commissioning processes.
- Managing, monitoring and maintaining communication networks including high communication sites, substations, reclosers, voltage regulators, RMUs, mobile substations and underground substations.
- Developing and managing budget forecasts for CAPEX projects, Asset replacement renewals and OPEX projects to ensure financial oversight and efficiency.
- Managing RSM spectrum licensing and maintenance fees in consultation with the Finance department to ensure compliance.
- Overseeing landowner agreements and assisting with managing co-share site arrangements to facilitate effective network operations.
- Maintaining relationships with suppliers and vendors to ensure timely procurement of equipment and services and address any issues related to supply chain management.
- Overseeing the management of stock and network spares equipment, ensuring availability and proper inventory levels to support network operations.
- Managing the creation and decommissioning of communications assets, coordinating with the GIS team for accurate asset tracking and documentation.
- Leading the development of engineering solutions for both the annual works programme and multi-year strategic projects.

- Providing strategic and high-level technical engineering advice to the AEL Executive Leadership Team (ELT) and relevant departments.
- Overseeing the research, development and design of engineering projects and solutions.
- Being the Engineering Lead on complex technical projects including large, distributed generation connections.
- Leading liaison with Transpower on grid matters and projects.
- Liaising with Network Operations & Performance and Works Delivery teams regarding specific customer requirements, design solutions and pricing.
- Providing excellent quality service to the company, customers and stakeholders.
- Project Delivery Management as required.
- Carrying out analysis and providing recommendations and producing reports as required by your manager.
- Assisting with the preparation of information required for resource consents.
- Contributing to and reviewing asset fleet strategies.
- Engaging and managing engineering consultants as required.
- Performing any other duties as may be required from time to time by the Head of Engineering & Design.

You are successful when

- Reliable performance and effective issue resolution in the design, implementation, and maintenance of Alpine's communication network is achieved.
- Compliance with RSM licensing requirement is managed effectively.
- Budgets for CAPEX projects and OPEX maintenance are developed, and projects are delivered on time and within budget.
- Co-site share agreements are managed, and customer requirements and design solutions are addressed.
- Effective relationships with customers, suppliers, vendors, and stakeholders are maintained.
- Engineering solutions are well developed and meet the expectations of customers and stakeholders.
- Customer expectations are well managed during the design development.
- Safe, effective, reliable & cost-effective designs meet requirements.
- Customer expectations are well managed on projects and new connections activity.
- Work is delivered on time and within budget, and to the required quality and safety standards.

Engineering Methodologies, Quality and Standards

You are responsible for

- Looking for opportunities to improve engineering systems, processes and work practices.
- Assisting the Head of Engineering & Design in developing and implementing AEL's engineering methodologies, processes and procedures.
- Improving practice around standards and carrying out independent audits of designs and builds against standards.
- Assisting with the development and maintenance of company standards.
- Reviewing and undertaking work/site visits as required to ensure projects are progressing in accordance with technical plans, specifications, standards and/or requirements.
- Executing and modelling design project management methodologies.

- Carrying out formal design reviews and providing feedback.
- Actively contributing to and modelling Safety in Design.
- Developing concept and feasibility studies.
- Undertaking concept and feasibility assessment of strategic projects.
- Assisting with Contractor Site Safety Auditing & Monitoring.

You are successful when

- Contractors work sites are audited for safety.
- Designs are delivered on time and to the required quality and safety standards.
- Safety-in-design reviews are completed for projects.
- Acceptable designs satisfy the requirements under the Electricity Act & Electricity Safety Regulations.
- Work sites are safe for service providers and public accident mitigation.

Leadership

You are responsible for

- Role modelling AEL's approach to engineering, including in regard to standards, practice and controls.
- Coaching, guiding, and supporting stakeholders with engineering matters and processes.
- Proactively sharing knowledge and insights to support quality decision making on engineering matters.
- Guiding and assisting engineers in gaining their CPEng registration.
- Mentoring and contributing to the technical upskilling of our engineering team.
- Inspiring others to achieve high quality results for AEL.
- Establishing and maintaining excellent working relationships with other AEL departments, teams, customers and external contractors and stakeholders.
- Providing engineering support to other teams as required.
- Always acting in the best interests of Alpine and its people.
- Role modelling the AEL values and culture.

You are successful when

- You take an active role in leading engineering solutions and best practice across AEL.
- You are viewed as a leader and a go-to person for engineering technical expertise.
- You share your knowledge and skills with others and contribute to their development.
- You are a role model for others.

(Occasionally you may be required to work outside of your usual work hours for events, however, you will be compensated accordingly).

What You Will Bring:

Education & Qualifications	Essential	Desirable
<ul style="list-style-type: none"> • Bachelor of Engineering (or equivalent) • CPEng accreditation or similar professional body accreditation/membership 	✓	✓
Knowledge, Skills & Experience	Essential	Desirable
<ul style="list-style-type: none"> • 5+ years in the Power / High voltage / Distribution sector(s) • 5 - 10 years engineering experience in communication systems • Intimate knowledge of New Zealand regulations as they apply to the electrical sector • Knowledge of NZ connection code • Ability to mentor and upskill others • Ability to build quality relationships (both internal and external) 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> ✓ ✓

What We Expect

Health & Safety

- Actively participating in health and safety (H&S) responsibilities outlined in Alpine's H&S Management Programme
- Following all established work procedures with regard to the requirements for H&S, including the use of PPE
- Identifying and reporting hazards
- Adhering to all H&S practices and rules
- Actively promoting and supporting health and safety, and wellbeing initiatives

Continuous Improvement

- Taking the initiative to improve work practices and to get the best possible outcome
- Looking for opportunities to improve systems, processes and work practices - both within your own position and our company as a whole
- Participate in MBUs, both within in your own team and across AEL

Customer Excellence

- Acting as an ambassador for AEL, going above and beyond to always provide both internal and external customers with exceptional service - approachable, interested and friendly
- Treating everyone with respect - taking time to listen, learn and understand. Problems and complaints are acknowledged, solutions identified and promptly acted upon
- Taking responsibility for the achievement of the organisational levels of service, measures, and targets as they relate to the role

Teamwork

- Working together as one team
- Willingly sharing your knowledge and experience
- Open, honest, considerate, and respectful communication
- Demonstrate positivity and respect and support and care for your colleagues.
- Demonstrate initiative and commitment to team objectives

- Actively participating in group activities
- Being open and receptive to change
- Positive response to requests for assistance from within your own team and other teams; demonstrating adaptability and willingness

Performance & Development

- Taking a full and active role in Performance Development Plan discussions with your manager (prepares, participates, follows through). Identifying and following through on opportunities for personal and professional development
- Demonstrating commitment to up-skilling and further developing specialist knowledge and best practice initiatives
- Participating in training opportunities with an open mind

Civil Defence Emergency Management

- Assisting AEL in preparing for and responding to an emergency
- After establishing the safety of members of your household, you may be assigned duties to assist AEL in an emergency

Personal Accountability

Being a positive role model and promoting AEL favourably.

- Be approachable, personable, willing, and consistent
- Contribute proactively through empowering our communities
- Work within and contribute to all AEL policies and standards

Other Duties

Occasionally you may be required to undertake duties in addition to those outlined, but of which fall within your capabilities and experience.

Employees are expected to carry out such other duties and responsibilities as may be requested from time to time by their supervisor or manager which are generally consistent with the objectives of the position.



Our Vision

Empowering our Community



Our Purpose

We deliver secure and reliable energy while innovating for our future

Our Values



Safety

We value health & safety always



Integrity

We are honest and sincere; we mean what we say and say what we mean



Accountability

We accept responsibility

All built on a foundation of RESPECT

Manager

Date

Position Holder

Date