



POSITION DESCRIPTION

Infrastructure Engineer

Unit/Branch, Directorate:	Infrastructure, Intelligence Directorate	
Location:	Wellington, Auckland	
Reporting to:	Infrastructure Lead	
Direct reports:	Nil	
Salary range:	Practitioner Level:	H \$77,711 - \$116,567
	Expert Level:	I \$90,366 - \$135,548

Purpose of position:

This role is responsible for the development and sustainment of a range of ICT capabilities. The role includes activities across a range of technology fields including automation, virtualisation, networking, storage, compute and security.

Our mission at the GCSB is to protect and enhance New Zealand's security and wellbeing.

Our values are Respect, Commitment, Integrity and Courage

Intelligence Directorate purpose: The core activities of the Intelligence Directorate are the planning and conduct of GCSB intelligence collection, processing, production, and distribution in accordance with agreed Government policy and requirements, and the overall coordination of New Zealand operational intelligence assets to meet national requirements.

The Directorate is also responsible for providing support to military operations, support to other agencies under section 13 of the Intelligence and Security Act and the operation of a 24x7 intelligence watch and warn service for the NZ Government.



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Key accountabilities	Deliverables/Outcomes
Developing and sustaining infrastructure capabilities	
<ul style="list-style-type: none"> • Developing new capabilities utilising a variety of technologies including, but not limited to, various host operating systems, networking platforms, virtualisation, automation, security platforms and ancillary technologies • Sustaining existing capabilities to ensure that they are fit for purpose and available for use by clients 	<ul style="list-style-type: none"> • New capabilities are developed within approved timeframes, quality guidelines to agreed organisational and unit standards • Existing capabilities are sustained to availability, quality and unit standards
Applying engineering methodologies to capability development and sustainment	
<ul style="list-style-type: none"> • Selection and application of appropriate engineering and development methodologies to the development and sustainment of the capability. Including, but not limited to, the following aspects: requirements analysis, high level and detailed designs, prototyping, development, testing, integration, documentation, feedback and providing training 	<ul style="list-style-type: none"> • New capabilities are developed within approved timeframes, quality guidelines to agreed standards • Existing capabilities are sustained to availability, quality and unit standards
Providing technical knowledge and expertise	
<ul style="list-style-type: none"> • Providing expertise across a breadth and depth of technologies • Working with other staff to solve operational use cases • Designing future capabilities • Participating in the development and sustainment of projects and programmes as directed • Mentoring and training less experienced staff in technical aspects of their roles • Researching new developments in technology including their potential benefits and ability for integration in to the unit • Being an advocate for technical innovation within the NZIC • Representing unit interests in wider development and sustainment activities • Development and implementation of technical standards 	<ul style="list-style-type: none"> • New capabilities are developed within approved timeframes, quality guidelines to agreed standards • Existing capabilities are sustained to availability, quality and unit standards • Improved technical skillsets within the unit • Continued improvement and innovation in technology areas

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Liaison with stakeholders and external partners	
<ul style="list-style-type: none"> • Liaison with commercial suppliers, vendors and other parties as required • Representing and advocating for GCSB in a range of domestic and international fora 	<ul style="list-style-type: none"> • Feedback provided on GCSB input into fora is positive • New capabilities are developed within approved timeframes, quality guidelines to agreed standards • Existing capabilities are sustained to availability, quality and unit standards
<p>Health and safety (for self)</p> <ul style="list-style-type: none"> • Work safely and take responsibility for keeping self and colleagues free from harm • Report all incidents and hazards promptly • Know what to do in the event of an emergency • Cooperate in implementing return to work plans • Be a visible role model at all times • Follow GCSB’s safety rules and procedures 	<ul style="list-style-type: none"> • A safe and healthy workplace for all people using our sites as a place of work • All requirements in the NZIC Health and Safety policy and procedures are met
Other duties	Any other duties that fall within the scope of the position

Position delegation	
Financial delegation:	None

Person Specification	
Knowledge and Experience:	<p>Essential:</p> <ul style="list-style-type: none"> • A minimum of three years ICT experience, preferably with at least one year undertaking the development of systems engineering projects • Experience designing and implementing a range of security-in-depth techniques • Experience in Linux systems administration at the RHCSA level or equivalent and one or more of the following areas is required: <ul style="list-style-type: none"> • Virtualisation administration at the VCP/RHCVA level or equivalent • Infrastructure provisioning tools such as Puppet, Chef or Ansible • Network administration at the CCNA level or equivalent • ICT systems design • ICT systems security experience

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	<p>Desirable:</p> <ul style="list-style-type: none">• Experience in development methodologies for ICT capability development• Experience in the deployment and management of monitoring tools e.g. Nagios, Splunk
Qualifications and Courses:	<p>Essential:</p> <p>Computer science, information systems or network and system administration industry certifications</p> <p>Desirable:</p> <ul style="list-style-type: none">• Bachelor's Degree in Information Technology, Computer Science, Engineering or equivalent• RedHat Certified Engineer• Cisco Certified Network Professional• VMware Certification (VCP)• Industry standard project management• IT security certification e.g. CISSP
Specific Job Requirements:	<ul style="list-style-type: none">• Ability to obtain and maintain a TSS security clearance

NZIC Competencies

In addition to the Person Specification above, competency standards which outline the development requirements of the position are set out under the NZ Intelligence Community (NZIC) Career Pathways framework. The Career Pathways framework enables progression within the job.

Full descriptions of progression competencies and an overview of the NZIC Career Pathways framework is available on appointment.

The position is aligned to the Information Engineering competency framework.

Changes to Position Description

Positions in the GCSB may change over time as the organisation develops. Therefore we are committed to maintaining a flexible organisation structure that best enables us to meet changing market and customer needs. Responsibilities for this position may change over time as the job evolves. This Position Description may be reviewed as part of planning for the annual performance cycle.

Date PD reviewed: 30/10/2018

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Signatures

Manager's Name

Signature

Date:

Employee's Name

Signature

Date: