JOB DESCRIPTION
Senior Engineer Enterprise Software – SITS: eVision

ROLE TITLE	Senior Engineer Enterprise Software – SITS: eVision
SECTION/DIVISION:	IT Information Systems, Digital Division
REPORTS TO:	Group Leader Student Management Value Stream (SMVS) Operations *or* Group Leader Student Management Value Stream (SMVS) Continuous Improvement *or* Product Manager
DIRECT REPORTS (FTE):	Nil
INDIRECT REPORTS (FTE):	Nil
PRIMARY PURPOSE OF THE ROLE:	Provide expert and specialist software development lifecycle (SDLC) services for eVision, covering systems analysis, design, development, testing, maintenance, and deployment. Manage key functions such as portal administration, task management, vistas and data maintenance, standard letter/report facilities, STUTALK and SQL. Deliver specialist technical advice and solutions across platforms to ensure functional, stable, integrated, secure and scalable software that meets evolving needs and standards of the organisation. Provide support and troubleshooting for software solutions, with a strong focus on operational efficiency and client service. Contribute to the development and enhancement of the University of Otago's SITS:Vision system, ensuring comprehensive technical documentation is maintained. Success in this role requires excellent service delivery, strategic awareness, and the ability to balance both tactical and operational responsibilities.
ACCOUNTABILITIES:	**Programming/software development, PROG: Level 5** Takes technical responsibility across all stages and iterations of software development. Plans and drives software construction activities. Adopts and adapts appropriate software development methods, tools and techniques. Measures and monitors applications of project/team standards for software construction, including software security. Contributes to the development of organisational policies, standards, and guidelines for software development. **Software design, SWDN: Level 4** Designs complex software applications, components and modules. Uses appropriate modelling techniques following agreed software design standards, guidelines, patterns and methodology. Creates and communicates multiple design views to balance stakeholders' concerns and to satisfy functional and non-functional requirements. Identifies, evaluates and recommends alternative design options and trade-offs. Models, simulates or prototypes the behaviour of proposed software to enable approval by stakeholders, and effective construction of the software. Verifies software design by constructing and applying appropriate methods.

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Reviews, verifies and improves own designs against specifications. Leads reviews of others' designs.

Release and deployment, RELM: Level 4
Assesses and analyses release components for input to release scheduling.

Maintains and administers tools and methods for software delivery, deployment and configuration.

Maintains release processes and procedures.

Problem management, PBMG: Level 3
Investigates problems in systems, processes and services.

Assists with the implementation of agreed remedies and preventative measures.

Change control, CHMG: Level 4
Assesses, analyses, develops, documents and implements changes based on requests for change.

Ensures that operational processes are in place for effective change control.

Develops, configures and maintains tools to manage and report on the lifecycle of change requests.

Identifies problems and issues and recommend corrective actions.

Systems integration and build, SINT: Level 4
Provides technical expertise to enable the configuration of system components and equipment for systems testing.

Collaborates with technical teams to develop and agree system integration plans and report on progress. Defines complex/new integration builds. Ensures that integration test environments are correctly configured.

Designs, performs and reports results of tests of the integration build. Identifies and documents system integration components for recording in the configuration management system.

Recommends and implements improvements to processes and tools.

Specialist advice, TECH: Level 4
Provides detailed and specific advice regarding the application of their specialism to the organisation's planning and operations.

Actively maintains knowledge in one or more identifiable specialisms.

Recognises and identifies the boundaries of their own specialist knowledge.

Where appropriate, collaborates with other specialists to ensure advice given is appropriate to the organisation's needs.

KEY RELATIONSHIPS:	Internal Leaders, managers and staff (as clients) IT Services Division staff Project sponsors and managers Project Management Offices External University and industry peers Vendors, service providers, contractors, consultants, outsourcing organisations

QUALIFICATIONS AND EXPERIENCE:	Essential Tertiary level qualification in a relevant discipline or recognised qualification(s) appropriate to the role. Considerable experience in a software development/solutions role using relevant technologies, programming, and scripting languages. Experience working within a Tribal SITS-based environment. Proficiency in JavaScript, jQuery, HTML, CSS, and XML. Experience with relational databases using SQL/PL-SQL. Experience in e:Visoin development using the full suite of available tools. Experience contributing to projects throughout the entire lifecycle, from requirements analysis to design, coding implementation, testing, system implementation, and support. Experience developing technical documentation to support software developments. Experience working with data and explaining it to users using appropriate formats. Proven experience in database design and development. Proven experience designing interactive, human-centred user experiences. Proven ability to analyse and translate user requirements into software and systems to achieve client-focused business solutions. Proven experience in change and release management processes, including writing technical and functional documentation. Experience in agile development methodologies. Familiarity with change and release management best practices. Experience with a range of relevant development tools, frameworks, and environments. Preferred Tertiary IT level qualification. Proven experience providing software engineering services in a large or complex organisation. Agile delivery experience, including serving as the lead software engineer on an agile project. Experience in developing cost/resource estimates, technical specifications, and systems design. Proven ability to build and maintain strong working relationships and communicate effectively at various levels across a large organisation. Experience in providing solutions for research, teaching, and learning environments.
TECHNICAL SKILLS AND KNOWLEDGE:	Essential Proven knowledge and experience in using the Tribal SITS: Vision Student Record system to manage student and applicant data. Software development expertise covering the full software development life cycle (SDLC), including systems analysis, systems design, programming, testing and defect management, and release/deployment. Deep specialist knowledge in a specific area of software development. Understanding of software architecture and design issues from both technical and end-user perspectives. In-depth knowledge of programming for diverse operating systems and platforms using development tools and methodologies, along with software design and programming principles. In-depth knowledge of relational database development and management, including programming tools and techniques. Advanced programming experience in multiple programming languages. Preferred Detailed experience across at least 5 of the SWEBOK knowledge areas. Knowledge of current and emerging programming and scripting languages and technologies. Proven understanding of software architecture and design issues from both technical and user experience perspectives. Knowledge of current development security practices and technologies. Good knowledge of OWASP (Open Web Application Security Project).

	Excellent written and oral communication skills, including the ability to convey complex information clearly and appropriately, as well as to produce high-quality reports and documentation.
SPECIAL REQUIREMENTS:	May work across one or more portfolios. Contribute as part of a network of IT Information Systems staff to provide suitable coverage during periods of leave, peak period activities and to cater for university and customer requirements. Support of scheduled after hours work will be required on occasion. Provide service and support to the University of Otago satellite campuses as and when required. Maintain high levels of discretion and confidentially of information and data. Some travel may be required.
	At the University, we are required to be compliant with the Public Records Act 2005 and Privacy Act 2020. Staff are expected to participate in available training to understand these requirements and effectively manage information accordingly.
DIRECT BUDGET ACCOUNTABILITY:	Nil
MĀORI STRATEGIC FRAMEWORK:	Act in a manner consistent with the principles and implications, as well as the University's commitment to the Treaty as articulated in the Māori Strategic Framework.
HEALTH AND SAFETY:	Act and work in a manner compliant with current health and safety at work legislation and University procedures, frameworks and guidelines. Role model safe behaviour and practices, share the responsibility to prevent harm and contribute to a safe campus and work environment, including raising workplace health and safety concerns for self, students, visitors and other staff.
SUSTAINABILITY:	Act in a manner consistent with the University's sustainability commitments; role-modelling sustainable practices, with a particular emphasis on minimising the environmental impact of day-to-day activities.

SKILLS FRAMEWORK FOR THE INFORMATION AGE (SFIA)

Senior Engineer Enterprise Software – SITS: eVision
Role Type: Engineer

SFIA Levels of responsibility

Autonomy	4	Influence	4	Complexity	5	Business Skills	5	Knowledge	4

SFIA Skills Profile

Category	Subcategory	Skill	Code	L1	L2	L3	L4	L5	L6	L7
Development and implementation	Systems development	Programming/software development	PROG					■		
Development and implementation	Systems development	Software design	SWDN				■			
Delivery and operation	Technology management	Release and deployment	RELM				■			
Delivery and operation	Service management	Problem management	PBMG			■				
Delivery and operation	Service management	Change control	CHMG				■			
Development and implementation	Systems development	Systems integration and build	SINT				■			
Strategy and architecture	Advice and guidance	Specialist advice	TECH				■			

https://help.sfia.nz/hc/en-nz/sections/4407230514201-Levels-of-responsibility

https://sfia-online.org/en/sfia-8/sfia-views/full-framework-view?path=/glance