

# Senior Applications Developer

## Position Description

<b>Division</b>	Technology Services	<b>Department</b>	Digital Transformation
<b>Reports To</b>	Team Leader Systems Development	<b>Direct Reports</b>	No

## Position Purpose

The Senior Applications Developer plays a crucial role in designing, developing, and maintaining custom business solutions and integrations. Contributing to the development, maintenance and management of council's development, AI/ML and integration platforms delivered through cloud platforms.

Our mission is to maximise productivity, ensuring that continuous improvement is leveraged and maintained within the organisations budget whilst achieving organisational objectives and the needs of our community.

## Responsibilities & Outcomes

As a Senior Applications Developer and member of the Digital Transformation department you will:

### **Main Tasks:**

- Here Perform service request analysis and provide support across software systems used by council to assist in resolving issues to ensure and restore organizational productivity.
- Write high quality code (C#, Python) and consistently maintain high standards.
- Manage and maintain AWS development, AI/ML and integration platforms.
- Provide specialist advice in the complex analysis, design and architecture of technology solutions including artificial intelligence (AI) and machine learning (ML).
- Design program architecture for intended solution and ensure alignment with Council's existing solutions and architecture.
- Ensure all agreed practices adopted by Council for code and code management are adhered to.
- Work collaboratively within the ICT team and across council stakeholders to ensure the best practice solution and service outcomes are achieved.
- Ensure integrity, security, and confidentiality of the systems.
- Accurately maintain system documentation, including change requests, technical and user guides, problem and resolution knowledge bases and documentation produced during the system life cycle.
- Remain current with relevant new and innovative technologies and approaches to development.
- Develop integrations between core Council systems and other disparate applications, both internal and external to Council, using web services, APIs, and other technologies.
- Contribute to the future direction and ongoing enhancement of Council's service offerings by identifying and actioning opportunities for business and process improvement.

### **Accountable for:**

- Developing, testing, and maintaining technology solutions
- Documentation of technology solutions
- Management of development, AI/ML and integration platforms
- Meeting time and quality targets for assigned tasks.

### **Responsible for:**

- Providing specialist advice for solutions to business problems

- Development of high-quality technical solutions
- Maintaining and updating documentation of technology solutions.
- Maintaining and development of development platforms
- Understanding and interpreting business requirements
- Mentoring junior developers

**Contributes to:**

- Maintaining high standards throughout the development team
- Maintaining the security of all council systems
- Design, development, and maintenance of technologies solutions
- Collaboration within Technical Services

**Our Values**

Our values shape the way we behave, how we interact with each other and our customers. They underpin our decision making and are our guiding principles for how we work every day. As a team member you will take individual accountability for demonstrating the values expectations and behaviours in this role.



**Decision Making**

Budget	N/A
Delegations	Delegations under the Local Government Act 2009 and as directed and published in Council's Delegation Register

**Knowledge & Experience**

**Experience:**

Expert level role having at least 5 years' experience in the discipline and is able to operate confidently with minimal guidance.

**Reach:**

Organisation

Influences support and BAU activities for services that may be delivered through collaboration across multiple business groups within the organisation.

**SFIA Responsibility Skills required:**

***Autonomy***

- Works under broad direction.
- Work is often self-initiated.
- Is fully responsible for meeting allocated technical and/or group objectives.
- Analyses, designs, plans, executes and evaluates work to time, cost and quality targets.
- Establishes milestones and has a significant role in the assignment of tasks and/or responsibilities.

***Influence***

- Influences customers, suppliers, and partners at account level.
- Makes decisions which influence the success of projects and team objectives.
- Has some responsibility for the work of others and for the allocation of resources.
- Engages with and contributes to the work of cross-functional teams to ensure that customers and user needs are being met throughout the deliverable/scope of work.

- Facilitates collaboration between stakeholders who share common objectives.
- Participates in external activities related to own specialism.

### **Complexity**

- Work includes a broad range of complex technical or professional activities, in a variety of contexts.
- Undertakes work which requires the application of fundamental principles in a wide and often unpredictable range of contexts.
- Investigates, defines and resolves complex issues.
- Applies, facilitates and develops creative thinking concepts or finds innovative ways to approach a deliverable.
- Understands the relationships between own specialism and customer/ organisational requirements.

### **Business Skills**

- Communicates fluently, orally and in writing, and can present complex information to both technical and non-technical audiences.
- Demonstrates an awareness of risk and takes an analytical approach to work.
- Maximises the capabilities of applications for their role and evaluates and supports the use of new technologies and digital tools.
- Contributes specialist expertise to requirements definition in support of proposals.
- Shares knowledge and experience in own specialism to help others.
- Learning and professional development — maintains an awareness of developing practices and their application and takes responsibility for driving own development.
- Security, privacy, and ethics — fully understands the importance and application to own work and the operation of the organisation. Engages or works with specialists as necessary.

### **Knowledge**

- Has sound generic, domain and specialist knowledge necessary to perform effectively in the organisation typically gained from recognised bodies of knowledge and organisational information.
- Has an appreciation of the wider business context.
- Develops a wider breadth of knowledge across the business.
- Demonstrates effective application and the ability to impart knowledge found in industry bodies of knowledge.
- Absorbs new information and applies it effectively.
- Applies knowledge to help to define the standards which others will apply.

### **SFIA Professional Skills required:**

#### **Programming/software development (PROG)**

- Takes technical responsibility across all stages and iterations of software development.
- Plans and drives software construction activities. Adopts and adapts appropriate software development, 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.
- Takes technical responsibility across all stages and iterations of software development.

#### **Software design (SWDN)**

- 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.
- Reviews, verifies, and improves own designs against specifications. Leads reviews of others' designs to the selection of the software development methods, tools, and techniques.

### ***Systems design (DESN)***

- Designs large or complex systems and undertakes impact analysis on major design options and trade-offs.
- Ensures that the system design balances functional and non-functional requirements.
- Reviews systems designs and ensures that appropriate methods, tools and techniques are applied effectively. Makes recommendations and assesses and manages associated risks.
- Adopts and adapts system design methods, tools, and techniques. Contributes to development of system design policies, standards, and selection of architecture components.

### ***Systems integration and build (SINT)***

- Plans and drives activities to develop organisational systems integration and build capabilities including automation and continuous integration.
- Identifies, evaluates, and manages the adoption of tools, techniques, and processes to create a robust integration framework. Provides authoritative advice and guidance on any aspect of systems integration.
- Leads integration work in line with the agreed system and service design. Assesses risks and takes preventative action.
- Measures and monitors applications of standards.
- Contributes to the development of organisational policies, standards, and guidelines for systems integration. and tools to achieve a well-engineered result.

### ***Release and deployment (RELM)***

- Leads the assessment, analysis, planning and design of release packages, including assessment of risk.
- Liaises with business and technology teams on release scheduling and communication of progress.
- Conducts post-release reviews.
- Ensures that release processes and procedures are applied and that releases can be rolled back as needed.
- Identifies, evaluates, and manages the adoption of appropriate release and deployment techniques, processes and automation tools.

### ***Testing (TEST)***

- Selects appropriate testing approach, including manual and automated testing.
- Develops and executes test plans and test cases. Implements scalable and reliable automated tests and frameworks.
- Collaborates across parties involved in product, systems or service design and development to enable comprehensive test coverage. Identifies improvements in requirements, design or specification processes to increase the effectiveness and efficiency of testing.
- Analyses and reports on test activities, results, issues, and risks, including the work of others.

### ***Emerging technology monitoring (EMRG)***

- Monitors the external environment to gather intelligence on emerging technologies.

- Assesses and documents the impacts, threats, and opportunities to the organisation.
- Creates reports and technology roadmaps and shares knowledge and insights with others.

#### **Methods and tools (METL)**

- Provides advice, guidance, and expertise to promote adoption of methods and tools and adherence to policies and standards.
- Evaluates and selects appropriate methods and tools in line with agreed policies and standards.
- Contributes to organisational policies, standards, and guidelines for methods and tools.
- Implements methods and tools at programme, project and team levels including selection and tailoring in line with agreed standards.
- Manages reviews of the benefits and value of methods and tools. Identifies and recommends improvements.

#### **Requirements definition and management (REQM)**

- Plans and drives scoping, requirements definition and prioritisation activities for large, complex initiatives.
- Selects, adopts, and adapts appropriate requirements definition and management methods, tools and techniques. Contributes to the development of organisational methods and standards for requirements management.
- Obtains input from, and agreement to requirements from a diverse range of stakeholders. Negotiates with stakeholders to manage competing priorities and conflicts.
- Establishes requirements baselines. Ensures changes to requirements are investigated and managed.

#### **Software configuration (PORT)**

- Takes technical responsibility across all stages and iterations of configuration development and deployment.
- Plans and drives software configuration activities. Adopts and adapts appropriate software configuration methods, tools, and techniques.
- Measures and monitors the application of standards for configuration design and deployment including software security.
- Contributes to the development of organisational policies, standards, and guidelines for software configuration design and deployment.

#### **Specialist advice (TECH)**

- Provides definitive and expert advice in their specialist area.
- Actively maintains recognised expert level knowledge in one or more identifiable specialisms.
- Oversees the provision of specialist advice by others. Consolidates expertise from multiple sources, including third-party experts, to provide coherent advice to further organisational objectives.
- Supports and promotes the development and sharing of specialist knowledge within the organisation.

#### **Consultancy (CNSL)**

- Takes responsibility for understanding client requirements, collecting data, delivering analysis and problem resolution.
- Identifies, evaluates, and recommends options.
- Collaborates with, and facilitates stakeholder groups, as part of formal or informal consultancy agreements. Seeks to fully address client needs and implements solutions if required.
- Enhances the capabilities and effectiveness of clients, by ensuring that proposed solutions are fully understood and appropriately explained.

#### **Qualifications**

- Degree in information technology, information systems or other relevant field, or suitable relevant experience.

*Note: This position description reflects a summary of the key accountabilities of the position, it is not intended to be an all-inclusive list of duties, steps and tasks. Leaders may direct team members to perform other duties at their discretion.*