

INTEGRATION ARCHITECT POSITION DESCRIPTION

Position Title:	Integration Architect	Position Number:	Faculty/Division: Services & Resources
Classification:	HE09	No. Direct Reports: Nil & Highest Classified Position: N/A	School/Branch: Technology Services
FTE: 1.0	Reports to: Deputy CIO – Application Services	Fixed <input checked="" type="checkbox"/> Continuing <input type="checkbox"/>	Discipline/Unit: Application Services
Position Summary:	<p>The Technology Services branch is a part of the University's Division of Services and Resources, which provides enabling services and resource capabilities to support the University's teaching and research objectives and activities. Technology Services provides services and support to the University of Adelaide community of over 25,000 students and 3500 staff members. Technology Services has four major teams including Application Services, Client Services, Infrastructure Services, and a Project Management Office.</p> <p>Application Services within Technology Services is responsible for managing the application lifecycle, development and support of key enterprise and local applications including Enterprise Resource Planning for HR, Finance and Student Administrative Services, the Learning Management System, Corporate Research Systems and underlying middleware and databases.</p> <p>The Application Integration team provides development and integration services to applications that support the core research, teaching and administrative functions of the University.</p> <p>The Integration Architect role focuses on the technical aspects of integration solutions based on the Java application development platform: application architecture and high level design, detailed technical design, coaching of the integration team, governance of the technical delivery, high level logical integration design, testing, and migration and transition activities.</p>		
Position Characteristics:	Scope	<p>Working under broad direction, the Integration Architect provides support and leadership to the staff who deliver the integration technology solutions. The position is instrumental in providing strategic advice and direction and ensuring quality assurance in relation to application integration projects and services.</p> <p>The Integration Architect is responsible and accountable for the quality and cohesion of solution architecture components within an assigned domain and their conformance to approved standards and alignment with the future state enterprise and domain architectural goals. This includes both hands-on development of IT technology solution architectures as well as management of various architectural initiatives.</p>	

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	<p>Significant internal/external relationships</p>	<ul style="list-style-type: none"> ▪ CIO ▪ Deputy CIO – Application Services ▪ Technology Services Managers ▪ Business Owners of supported systems ▪ Enterprise Architects, Project Managers and Developers ▪ Vendors and service partners ▪ Manager Application Integration and Integration Team members
	<p>Special conditions</p>	<ul style="list-style-type: none"> ▪ As required, attend meetings and work outside of standard hours, as well as being on the on-call roster. Some intra and interstate travel may be required. ▪ Primary place of employment is North Terrace campus but may be required to work at and travel to all University campuses and facilities (including hospitals) where University staff and students reside. ▪ Reasonable workplace adjustments will be made for people with a disability.
	<p>Delegations</p>	<p>Nil</p>

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<p>Key Responsibilities and Outcomes</p>	<p>1</p>	<p>Lead Architectural and Integration Solutions.</p>	<ul style="list-style-type: none"> ▪ Lead the definition of solution architectures which includes evaluation, selection and integration of necessary technical components to create solution designs that support defined functional and non-functional requirements. ▪ Ensure that designed or reviewed solutions conform to architectural requirements such as scalability, maintainability, reliability, extensibility, usability and security across multiple domain areas. ▪ Define how logical and physical architectures map and how the physical infrastructure needs to be setup in order to support the proposed solution. ▪ Design complex BPM / EAI solutions using Java and other complementing technologies across multiple projects in Enterprise level environments ▪ Develop software, build and test associated with Continuous Integration practices. ▪ Develop web application frameworks, business process management framework, enterprise content and record management frameworks, enterprise application integration frameworks, business rules management frameworks, grid and big data technologies as required. ▪ Identify, analyse and design global services, service interface definitions, common component functionality and all application integration requirements. ▪ Lead the integration of Middle tier and third-party systems, aligning applications and services to support the business value chain while maximizing scalability and reuse, minimizing complexity and proactively managing total cost of ownership. ▪ Work closely with application development teams, project managers, business analysts and other architects to ensure that a coherent and consistent approach to application service design, implementation and integration is achieved. ▪ Create the Technology Standards and Architecture Patterns that define the current and future state of the application services and integration domain. ▪ Create and maintain an Application Services Catalogue that provides a comprehensive enterprise-wide view of the organization's business application services and how they can be accessed and integrated. ▪ Define current state application and/or infrastructure architectures for the assigned domain areas.
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2	Effective Management of Enterprise Class Integration Architecture.	<ul style="list-style-type: none"> ▪ Engage with business and IT stakeholders to ensure that proposed solutions can be effectively implemented and supported and present options and gain agreement on alternatives where proposed requirements or solutions are not feasible. ▪ Lead the development of policies, processes, guidelines and standard operating procedures relating to integration, and the implementation and communication of policies, guidelines and standards. ▪ Provide high quality advice to the Deputy CIO - Application Services and other managers in respect of the work of the application integration team.
3	Deliver excellent Customer Service.	<ul style="list-style-type: none"> ▪ Provide quality service delivery in accordance with service level agreements, ensuring any timeframes are met. ▪ Ensure continuous improvement of services, processes and systems ensuring that standards of quality, timeliness and cost effectiveness are delivered based upon a thorough understanding of Integration technologies, and industry trends. ▪ Recommend improvements to the relevant Technology Services Managers to systems, hardware and processes which would enable a reduction of problems and improvement to the customer experience. ▪ Ensure solution focus adequately addresses defined business value and customer/partner satisfaction objectives.
4	Stakeholder Engagement.	<ul style="list-style-type: none"> ▪ Establish strong and effective networks to support the objectives of the team within the technology areas, across the University and externally. ▪ Contribute to the effective communication of IT strategy and architecture to stakeholders. ▪ Assist in the tendering and contract processes, including negotiating with vendors on pricing and equipment as required. ▪ Maintain relationships with key vendors and suppliers on the provision and delivery of existing services. ▪ Develop strong interpersonal alliances with the business, application development, and application support teams. Establish credibility and respect with others; convince/influence others to embrace a position or take a specific course of action.
5	Develop and maintain personal and professional skills.	<ul style="list-style-type: none"> ▪ Maintain knowledge of current and future trends in technology and of best practices in the delivery of IT services, specifically in relation to integration architecture, relevant to the effective management and coaching of the team. ▪ Participate in development courses and seminars as appropriate.

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Criteria	Capabilities and Behaviours	Communication	<ul style="list-style-type: none"> ▪ Presents information persuasively, with skill and power, seeking to influence an audience of critical importance to the University, profession or discipline. ▪ Creates comprehensive reports or other documents to communicate ideas or concepts related to complex or sensitive issues. ▪ Uses political astuteness to negotiate and reach agreement at a senior level on complex issues
		Leadership	<ul style="list-style-type: none"> • Lives and promotes the values and goals of the organisation • Encourages and supports others to take on new challenges and opportunities. • Works effectively to reduce silos and encourage collaboration across groups. ▪ Understands how others perceive them and their role and works to break down perceptions that interfere with effective work interactions.
		Strategic Thinking	<ul style="list-style-type: none"> • Maintains a clear sense of strategic direction within the international, national and state contexts. • Establishes and maintains business relationships with key stakeholders to further the interest of the University. • Anticipates situations in the longer term (3-5 years) and acts to create strategic opportunities and address underlying problems. • Represents a positive profile for the University to the external community on specific issues.
		Business Acumen	<ul style="list-style-type: none"> • Gathers information from diverse sources to make informed business decisions. • Recognises when and how to apply principles of commercialisation in planning and decision making. ▪ Understands market trends and applies principles to areas of responsibility.
		Relationship Building	<ul style="list-style-type: none"> • Actively uses information gathered from relationships to contribute to the University strategy. • Develops and utilises networks at a strategic level. • Understands when and how to use personal power and relational power underpinned by integrity to influence outcomes. ▪ Seeks to understand the motivations and positions of key stakeholders to identify and build on common points of interest.

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	<p>Knowledge and Experience</p>	<ul style="list-style-type: none"> ▪ Expertise and capabilities in IT architect and a strong practical based working knowledge of various architectural patterns, technologies and architecture management processes and integration technologies. ▪ Experience working without direct supervision to develop multi-layered solution architectures that specify business, application, data and infrastructure designs. ▪ Practical experience in architecting, leading and implementing solutions that span a diverse range of technologies and platforms including; <ul style="list-style-type: none"> ▪ SOA & middleware technologies (eg. JBoss Fuse, Oracle SOA/BPM Suite, MuleSoft, and Apache Camel) ▪ Enterprise Java - J2EE (EJB, JSP) ▪ Databases (eg. Oracle, SQL Server, MySQL) ▪ Operating systems & virtualisation (Red hat Linux,VMware) ▪ Web technologies (HTML, JavaScript, PHP, CSS) and application servers (eg WebLogic, Tomcat, Websphere) ▪ Automated build and deployment tools ▪ Automated testing tools ▪ Experience in working on a scrum team and exposure to Agile methodologies. ▪ Understands and comprehends the implications of technology decisions and recommendations across multiple domain areas. ▪ Career track record of engineering, developing (coding), deploying and maintaining business critical information technology solutions across a range of technical platforms. ▪ Demonstrated experience in successful project delivery within an Architect level capacity and able to deliver timescales implementation and cost estimates together based on proposed architecture/design and risks. ▪ Demonstrated capacity to work within multiple software development life-cycles models and methodologies, including Waterfall and Agile and experience in software sizing and estimation. ▪ Demonstrated experience in analysis and communication skills aligning assets and capabilities (technology) to business needs. ▪ Ability to conduct fact-based evaluations of architecture alternatives, mediate opposing viewpoints and negotiate equitable outcomes that ensure stable solutions
	<p>Qualifications</p>	<ul style="list-style-type: none"> ▪ Tertiary qualifications in a computer science or related discipline at least at a Bachelor Level and/or extensive relevant experience.

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<p>Occupational Health, Safety and Welfare Requirements</p>	<ul style="list-style-type: none"> All Supervising staff are required to implement and maintain the University's OH&S Management System in areas under their control ensuring compliance with legislative requirements and the established Performance Standards. All other staff will assist the Head of School/Branch to create and maintain a safe and healthy work environment by working safely, adhering to instructions and using the equipment provided in accordance with safe operating procedures. Where appropriate, staff will initiate and participate in worksite inspections, accident reporting and investigations, develop safe work procedures and provide appropriate information, instruction, training and supervision. Staff will also inform the Head of School/Branch of any unsafe working practices or hazardous working conditions. 	
<p>University Expectations</p>	<p>All staff are expected to:</p> <ul style="list-style-type: none"> Contribute to the efficient and effective functioning of their team or work unit in order to meet University objectives. This includes demonstrating appropriate and professional workplace behaviours in accordance with the Code of Conduct, providing assistance to team members if required and undertaking other key responsibilities or activities as directed by one's supervisors; Participate in the Planning, Development and Review which includes a regular review of their performance against the responsibilities and performance objectives associated with the role and demonstration of appropriate behaviours which reflect a commitment to the University's values and strategic directions; Perform their responsibilities in a manner which reflects and responds to continuous improvement; and Read, understand and comply with all University policies and procedures. 	
<p>Approvals: Head of School / Branch Manager</p>	<p>Head of School / Branch Manager</p> <p>Name:</p> <p>Signature:</p> <p>Date:</p>	<p>Director Human Resources</p> <p>Name:</p> <p>Signature:</p> <p>Date:</p>
<p>Acknowledgement of Incumbent</p>	<p>I have read and understood the requirements of the position</p> <p>Name: <i>(please print)</i> Signature: Date:</p>	