

**Intermountain Health Care, Inc.
Position Description**

Job Family: Data Architect
Department: Information Systems

Date: 1/6/2004

All Information Systems Employees are expected to:

- Lead colleagues by conduct and example.
- Perform project tasks as directed.
- Meet agreed-upon schedules with quality.
- Demonstrate written and verbal skills that meet department needs.
- Communicate status and concerns of projects with supervisor and all interested groups.
- Understand and relate to other members of the department and organization.
- Adhere to department values, policies, procedures, and security/confidentiality requirements.
- Respect individual contributions while promoting a cooperative team environment.
- Follow department-specific standards and methodology.
- Support the mission of the company and the department.

Position Purpose: A Data Architect is responsible for designing relational databases. The Data Architect applies relational theory and business process analysis to the development of logical data models and converts these logical models into physical database objects using data modeling CASE tools.

<i>Data Architect</i>	Associate	Staff	Senior	Consultant
Position Purpose	-Assists other data architects in the following areas: analysis; design and implementation of logical data models; physical database objects; data conversion and loading processes; query and reporting functions; data management; and data quality assurance processes.	-Works independently in the following areas: analysis; design and implementation of logical data models; physical database objects; data conversion and loading processes; query and reporting functions; data management; and data quality assurance processes, within a single database and business environment.	-Leads the analysis, design & implementation of logical data models; physical database objects; data conversion, integration, and loading processes; query and reporting functions; data management; and data quality assurance processes, within a heterogeneous database and business environment.	-Develops and implements enterprise-level strategies and principles for the integration of enterprise information resources by defining corporate standards for data architecture, format, quality, and database design. -Leads the analysis, design & implementation of logical data models; physical database objects; data conversion, integration, and loading processes; query and reporting functions; data management; and data quality assurance processes, within a heterogeneous database and

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	<p>-Has a beginning or basic understanding of database, data warehouse and datamart “beginning to end” development.</p> <p>-Has Excellent Communication skills and interaction with Colleagues and team members</p> <p>-Has basic knowledge of the software development lifecycle process.</p> <p>-Knows when to hold em</p>	<p>-Has a general understanding of database, data warehouse and datamart “beginning to end” development.</p> <p>-Has Excellent Communication skills and interaction with Colleagues and team members.</p> <p>-Has a general working knowledge of the software development lifecycle process.</p> <p>-Knows when to fold em</p>	<p>-Oversees the analysis, models, conversion and data quality assurance processes of other data architects.</p> <p>-Has an advanced understanding of database, data warehouse and datamart “beginning to end” development.</p> <p>-Has Excellent Communication skills and interaction with Colleagues and team members.</p> <p>-Has an advanced working knowledge of the software development lifecycle process.</p> <p>-Knows when to walk away</p>	<p>business environment.</p> <p>-Validates the analysis, models, and data conversion and quality assurance processes of other data architects.</p> <p>-Has an in-depth understanding and vision of database, data warehouse and datamart “beginning to end” development.</p> <p>-Has Excellent Communication skills and interactions with Colleagues and team members.</p> <p>-Has an in-depth working knowledge of the software development lifecycle process.</p> <p>-Knows when to run</p>
Technical Skills/Knowledge	<p>-Possesses a strong sense of customer service and consistently and effectively addresses the customer needs.</p> <p>-Manages realistic expectations of the customer by prioritization.</p> <p>-Maintains basic understanding of industry application development methodologies, tools and techniques.</p> <p>-Participates in the technical review process of designs</p>	<p>-Possesses a strong sense of customer service. Consistently and effectively addresses the customer needs.</p> <p>-Manages realistic expectations of the customer by prioritization.</p> <p>-Maintains a general understanding of industry application development methodologies, tools and techniques.</p> <p>-Participates in the technical review process of designs</p>	<p>-Possesses a strong sense of customer service. Consistently and effectively addresses the customer needs.</p> <p>-Manages realistic expectations of the customer by prioritization, and ensures system-wide integration of new projects.</p> <p>-Maintains advanced understanding of industry application development methodologies, tools and techniques.</p> <p>-Participates in the technical review process of designs completed by other designers</p>	<p>-Possesses a strong sense of customer service and consistently and effectively addresses the customer needs.</p> <p>-Manages realistic expectations of the customer by prioritization, and ensures system-wide integration of new projects.</p> <p>-Maintains in-depth understanding of industry application development methodologies, tools and techniques.</p> <p>-Participates in the technical review process of designs completed by other designers</p>

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	<p>completed by other designers.</p> <p>-Performs routine ad-hoc queries of production data.</p> <p>-Consults with business users performing tuning queries.</p> <p>-Understands concepts of multidimensional data modeling.</p>	<p>completed by other designers.</p> <p>-Develops, documents, and delivers moderately complex ad-hoc queries of production data as requested by business users.</p> <p>-Consults with the business users performing tuning queries.</p> <p>-Understands and practices concepts and ideologies behind multidimensional data modeling and cubes where applicable.</p> <p>-Understands and implements security requirements within a single database and business environment.</p>	<p>and serves as a mentor to junior designers.</p> <p>-Develops, documents, and delivers complex ad-hoc queries of production data as requested by business users.</p> <p>-Consults with business users performing tuning queries.</p> <p>-Understands and practices concepts and ideologies behind multidimensional data modeling and cubes where applicable.</p> <p>-Understands and implements security requirements within a single database and business environment.</p>	<p>and serves as a mentor to junior designers.</p> <p>-Develops, documents, and delivers complex ad-hoc queries of production data as requested by business users.</p> <p>-Consults with the business users performing tuning queries.</p> <p>-Understands and practices concepts and ideologies behind multidimensional data modeling and cubes where applicable.</p> <p>-Leads and implements security requirements for a heterogeneous database and business environment.</p>
Data Architecture	<p>-Records detailed logical and physical data models in the information repository.</p> <p>-Understands and applies HIPPA standards and regulations to all areas of work.</p> <p>-Assists more senior resources in facilitating database design sessions.</p>	<p>-Records detailed logical and physical data models in the information repository.</p> <p>-Understands and applies HIPPA standards and regulations to all areas of work.</p> <p>-Facilitates database design sessions in the company of business customers and peer designers.</p>	<p>-Records detailed logical and physical data models in the information repository.</p> <p>-Understands and applies HIPPA standards and regulations to all areas of work.</p> <p>-Facilitates database design sessions and translates business requirements into logical and physical system designs for large projects.</p>	<p>-Records detailed logical and physical data models in the information repository.</p> <p>-Ensures appropriate integration of models and designs across the enterprise.</p> <p>-Understands and applies HIPPA standards and regulations to all areas of work.</p> <p>-Facilitates database design sessions and translates business requirements into logical and physical system designs for large complex projects.</p> <p>-Leads the physical database</p>

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	<p>-Assists in the physical database design and implementation process with guidance from staff and senior level resources and other development staff.</p> <p>-Designs the optimal data presentation and Business Intelligence environment for the customer. Works with various reporting tools.</p> <p>-Assists with specific database performance monitoring and tuning tasks including the design of optimization and indexing schemes.</p> <p>-Assists with projects that are intended to support business decision support requirements.</p> <p>-Understands the primary differences between On-line Transaction Processing and Decision Support Systems.</p> <p>-Develops, tests and implements simple extract, transformation and load routines using tools such as: Unix, Kornshell scripting, SQL,</p>	<p>-Coordinates the physical database design and implementation process for moderately complex projects.</p> <p>-Designs the optimal data presentation and Business Intelligence environment for the customer. Works with various reporting tools.</p> <p>-Coordinates specific database performance monitoring and tuning tasks including the design of optimization and indexing schemes, as well as partitioning for moderately complex projects.</p> <p>-Assists with projects that are intended to support business decision support requirements.</p> <p>-Understands the primary differences between On-line Transaction Processing and Decision Support Systems.</p> <p>-Develops, tests and implements moderately complex automated extract, transformation and load routines</p>	<p>-Leads the physical database design and implementation process for complex projects.</p> <p>-Designs the optimal data presentation and Business Intelligence environment for the customer. Works with various reporting tools.</p> <p>-Coordinates with specific database performance monitoring and tuning tasks including the design of optimization and indexing schemes, as well as partitioning for complex projects.</p> <p>-Leads projects that are intended to support business decision support requirements.</p> <p>-Understands the differences between On-line Transaction Processing and Decision Support systems and how to appropriately support the requirements and environments for each.</p> <p>-May work as a consultant or provide architectural assistance on database applications within IHC's Information Systems.</p> <p>-Develops, tests and implements complex automated extract, transformation and load routines using tools such as: Unix,</p>	<p>design and implementation process for large complex projects.</p> <p>-Designs the optimal data presentation and Business Intelligence environment for the customer. Works with various reporting tools.</p> <p>-Coordinates with specific database performance monitoring and tuning tasks including the design of optimization and indexing schemes, as well as partitioning for large, complex projects.</p> <p>-Leads projects that are intended to support business decision support requirements.</p> <p>-Understands the differences between On-line Transaction Processing and Decision Support systems and how to appropriately support the requirements and environments for each.</p> <p>-May work as a consultant or provide architectural assistance on database applications within IHC's Information Systems.</p> <p>-Develops, tests and implements complex automated extract, transformation and load routines using tools such as:</p>

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	<p>PL/SQL, Datastage, Datajuntion.</p> <p>-Assists in the definition of and subsequently follows enterprise and department-specific standards and methodologies.</p>	<p>using tools such as: Unix, Kornshell scripting, SQL, PL/SQL, Datastage, Datajuntion.</p> <p>-Assists in the definition of and subsequently follows enterprise and department-specific standards and methodologies.</p> <p>-Understands the unique demands of a Very Large Database.</p>	<p>Kornshell scripting, SQL, PL/SQL, Datastage, Datajuntion.</p> <p>-Leads the definition of and subsequently follows enterprise and department-specific standards and methodologies.</p> <p>-Understands the unique demands of Very Large Databases (VLD) and leads implementation of Performance enhancement methodologies.</p>	<p>Unix, Kornshell scripting, SQL, PL/SQL, Datastage, Datajuntion.</p> <p>-Leads in the definition of and subsequently follows enterprise and department-specific standards and methodologies.</p> <p>-Understands the unique demands of Very Large Databases (VLD) and leads implementation of Performance enhancement methodologies.</p>
Project Management	<p>-Assists with low risk projects through development of project work plans, recommendations for optimal utilization of resources, milestone tracking, and coordination of project team efforts. Keeps management informed of progress and exceptions. Maintains an up-to-date project notebook.</p> <p>-Works effectively with clients and staff to determine needs, specifications, feasibility, and project priorities.</p>	<p>-Provides leadership for moderately complex projects through development of project work plans, recommendations for optimal utilization of resources, milestone tracking, and coordination of project team efforts. Keeps management informed of progress and exceptions. Maintains an up-to-date project notebook.</p> <p>-Works effectively with clients and staff to determine needs, specifications, feasibility, and project priorities</p>	<p>-Provides leadership for complex projects through development of project work plans, recommendations for optimal utilization of resources, milestone tracking, and coordination of project team efforts. Keeps management informed of progress and exceptions. Maintains an up-to-date project notebook.</p> <p>-Works effectively with clients and staff to determine needs, specifications, feasibility, and project priorities.</p>	<p>-Provides leadership for large, complex projects through development of project work plans, recommendations for optimal utilization of resources, milestone tracking, and coordination of project team efforts. Keeps management informed of progress and exceptions. Maintains an up-to-date project notebook.</p> <p>-Works effectively with clients and staff to determine needs, specifications, feasibility, and project priorities</p>
Vendor Management	-Consults with business users for package selection projects.	-Consults with business users for package selection projects.	-Consults with business users for package selection projects.	-Consults with business users for package selection projects.
System Configuration, Installation, Support, Administration, and Maintenance	<p>-Assists in the development and implementation of system backup, recovery, and support plans.</p> <p>-Understands the roles of Database Administrators and Data</p>	<p>-Participates with the development and implementation of system backup, recovery, and support plans.</p> <p>-Understands the roles of Database Administrators and</p>	<p>-Leads the development and implementation of system backup, recovery, and support plans.</p> <p>-Understands the roles of Database Administrators and</p>	<p>-Leads the development and implementation of system backup, recovery, and support plans and assists in the definition of standards for these plans.</p> <p>-Understands the roles of Database Administrators and</p>

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	Architects, and how they work together in supporting various databases.	Data Architects, and how they work together in supporting various databases.	Data Architects, and how they work together in supporting various databases.	Data Architects, and how they work together in supporting various databases.
Documentation and Reporting	-Documents business requirements and essential functionality requirements for in-house developments and the selection of third-party applications. Assists in leading the effort to ensure proper integration with existing IHC data, standards, and business processes.	-Documents business requirements and essential functionality requirements for in-house developments and the selection of third-party applications. Assists in leading the effort to ensure proper integration with existing IHC data, standards, and business processes.	-Documents business requirements and essential functionality requirements for in-house developments and the selection of third-party applications. Leads the effort to ensure proper integration with existing IHC data, standards, and business processes.	-Documents business requirements and essential functionality requirements for in-house development and the selection of third-party applications. Ensures proper integration with existing IHC data, standards, and business processes.
Minimum Requirements				
Education	Bachelor's degree or formal training in technology related field or equivalent experience	Bachelor's degree or formal training in technology related field or equivalent experience	Bachelor's degree or formal training in technology related field or equivalent experience	Bachelor's degree or formal training in technology related field or equivalent experience
Experience	0+ years experience	3+ years experience	6+ years experience	8+ years experience
Health care/Business Knowledge	-Understands general IHC administrative processes as they relate to immediate position requirements. -Understands the basic concepts of healthcare including patient care and health care financing. -Understands basic types of information used in a healthcare environment and how the data are produced, consumed and transformed.	-Understands general IHC administrative processes as they relate to immediate position requirements. -Understands the concepts of healthcare including patient care and health care financing. -Understands types of information used in a healthcare environment and how the data are produced, consumed and transformed.	-Understands general IHC administrative processes as they relate to immediate position requirements. -Understands concepts of healthcare including patient care and health care financing. -Understands, to an advanced degree, the types of information used in a healthcare environment and how the data are produced, consumed and transformed.	-Understands general IHC administrative processes as they relate to immediate position requirements. -Understands concepts of healthcare including patient care and health care financing. -Understands, to an advanced degree, the types of information used in a healthcare environment and how the data are produced, consumed and transformed.
Possible Career Ladder/ Job Related Families	Data Architecture Staff	Data Architecture Senior	Data Architecture Consultant	Aspiring manager (just kidding, of course)

Note: This job description is not intended to be an exclusive list of all the duties performed by the person in this position. Employees will perform other duties as assigned.