

ARIZONA SUPERIOR COURT IN PIMA COUNTY

Job Description

Job Title: Database Architect, Senior
Job Code: 8414
Pay Grade: 70
FLSA Status: Exempt



PURPOSE OF CLASSIFICATION:

Designs, builds and implements relational databases. Develops and maintains custom reports and forms using industry standard reporting tools. Interfaces with the application development teams and key end-user representatives to ensure data architecture is complete and meets business needs.

ESSENTIAL FUNCTIONS:

- Participates in the development of database requirements and design specifications, and refines conceptual requirements into technical designs.
- Constructs Logical and Physical data modeling using data modeling tools such as ERWin.
- Models database systems, transform database models and entities into database objects, implement database changes based on application development or enhancements.
- Implements a wide range of databases (MS SQL, Oracle).
- Develops complex, custom reports using industry standard tools such as Crystal Enterprise.
- Responsible for capacity planning of the database.
- Interacts frequently with the Database Administrator to install all data modeling tools and other software necessary to create the data models, setting up and maintaining the relational database management system, and database tuning when necessary to meet business requirements.
- Coordinates with the Database Administrator to install and maintain the software and reliability of the database and its platform.
- Creates the loading procedures for the data using vendor loading tools.
- Writes detailed architectural and infrastructure documentation for the analysis, design and implementation of new or revised databases.
- Prepares data flow diagrams, data dictionaries and user documentation.
- Provides support for data migrations from legacy systems.

ADDITIONAL RESPONSIBILITIES/ DUTIES:

- Interfaces with ITSD and other court staff regarding database architecture and provides support regarding the accuracy and usability of database systems.
- Maintains regular meetings with the supervisor and provides status reports as requested.
- Maintains current knowledge of emerging technologies and industry standards.

KNOWLEDGE, SKILLS, AND ABILITIES:

- Must have the knowledge and experience to create logical and physical data modeling, and the experience to implement a database and its components.
- Must have knowledge of industry standard reporting and the ability to develop complex reports using industry standard reporting tools (i.e. Crystal Enterprise).
- Must have knowledge in using object oriented design with a relationship to relational modeling and familiarity with multi-tier architecture and other related technology (i.e. Networking, OLTP, OLAP).
- Must have knowledge of architectural platform constraints on database performance and of XML along with other programming languages.
- Must have the skills to generate Data Definition Language (DDL) and Data Manipulation Language (DML) from the physical data model and strong skills in implementing Oracle, or MS SQL database environments.
- Must have the ability to develop entity relationship diagrams, familiar with relationship database extraction, transformation and loading issues.
- Must have strong project management skills with a high proficiency in analysis, design and implementation of database architecture.
- Must have the ability to effectively communicate with a wide variety of court employees, vendors, and people external to the court.

MINIMUM REQUIREMENTS:

A Bachelor's degree with a major in computer science, management information systems, or a related field, and five years of experience in data modeling and database analysis, design and implementation or equivalent. Must have experience developing complex reports using industry standard reporting tools such as Crystal, Hyperion, and/or Congnos. Or any equivalent combination of experience, training and/ or education approved by Human Resources.

LICENSES AND CERTIFICATES:

Must have a valid Arizona driver's license at the time of appointment.

PHYSICAL DEMANDS/WORKING CONDITIONS:

Typically performs duties in an office environment and may lift materials and/or equipment 20 lbs or less. On occasions will be requested to travel to alternative work sites.

DISTINGUISHING CHARACTERISTICS:

This is a classified position and reports to an Information Technology Services Manager. The incumbent works under general supervision and has no supervisory responsibilities.

Date: 03/08/04; 11/04/12

Revised:

Approved by: _____
Hiring Authority

Date

Director, Human Resources

Date