

SENIOR APPLICATION DEVELOPMENT ANALYST

DEFINITION

Under direction, provides lead direction and work review to assigned staff, serves as a consultant, and/or performs complex and specialized work in the design, programming, testing, and implementation of software applications and enhancements for various judicial branch organizations and the Judicial Council; works with users to determine system requirements; performs related work as assigned.

CLASS CHARACTERISTICS

This is the lead and/or specialist level in the Application Development Analyst series. Incumbents may serve in a lead capacity and direct the work of assigned staff, and/or may serve as specialists who independently perform the full range of analysis, design, and development of applications that meet business requirements, including the ability to program using a variety of programming language and development tools. Depending on the position or project, incumbents may utilize a spectrum of skills, from identification of functional requirements to the implementation of these requirements in systems.

This class is distinguished from Supervising Information Systems Analyst-A or -B in that the latter is responsible for supervising information systems staff, with effective authority for their selection, retention, and training and development and with responsibility for day-to-day supervision, evaluation, motivation, and discipline of employees.

EXAMPLES OF DUTIES (*illustrative only*)

- Provides lead direction, training, and work review; organizes and assigns work, sets priorities, and follows up to ensure coordination and completion of assigned work.
- Provides input into selection, evaluation, discipline, and other personnel matters.
- Researches, recommends, and applies new technologies appropriate to judicial branch needs.
- Investigates, analyzes, and evaluates project feasibility; develops project cost and benefit estimates; estimates project resource needs for staff and consultants.
- Using standard methodologies, analyzes user operational procedures to develop functional systems requirements, and advises, instructs, and directs other staff responsible for such development.
- Develops alternative solutions for business and system development problems.
- Coordinates database design and creation of prototypes.

- Uses standard procedures and techniques to coordinate the creation and modification of programs and resolve more complex problems of design, development, implementation, and support.
- Coordinates the development of, contributes to, and reviews system and user documentation and procedures.
- Produces concise, accurate and executable system implementation plans.
- Coordinates user support and training.
- Resolves complex problems related to interfaces and connectivity of multiple hardware platforms, operating systems, database management systems, and various other applications.
- Works with vendors to resolve software problems and evaluate new products and software tools.
- Prepares comprehensive written analyses of problems and solutions.
- Advises concerning system technical constraints, acceptance testing, performance criteria, complex design issues, and complex programming logic.
- Keeps up with current technologies (e.g., reading publications and attending seminars) and applies updates to hardware and software used in the judicial branch.

WORKING CONDITIONS

- Must be able to respond to information systems emergencies.
- Work occasional evening and weekend hours.
- May be required to travel statewide as necessary.

QUALIFICATIONS

Knowledge of:

- Basic supervisory principles and practices.
- Principles of information systems architecture for enterprise-wide systems deployment such as multi-tier, distributed and client/server system architecture and development principles, and internet/intranet application delivery mechanisms.
- Principles of full life cycle systems design and development.
- Principles and techniques of systems implementation including conversion, data reconciliation, user training, and documentation.
- Relational database management systems.
- Software development, data modeling and other tools, languages, and report generators.
- Principles and techniques of program design, development, testing, and documentation.
- Multiple hardware platforms and the interrelationship of different operating systems, middleware, messaging and system management.
- Basic principles of network design and communication.
- Principles of business organizations and operations.
- Principles and techniques of project management.
- Principles and techniques of preparing effective oral presentations.

- Principles and techniques of preparing a variety of effective written materials.

Ability to:

- Plan, direct, and review the work of others on a project or day-to-day basis.
- Use initiative and independent judgment within established procedural guidelines.
- Organize, prioritize, and coordinate multiple work activities and meet critical deadlines.
- Conceptualize and integrate systems within an enterprise-wide information systems architecture.
- Design and develop systems that meet organizational business needs.
- Use software development tools, languages, and report generators.
- Prepare formal business requests for various systems products and services.
- Prepare and manage contracts for systems products and services with appropriate Judicial Council staff.
- Develop and track project plans.
- Maintain and apply current technical knowledge.
- Resolve complex technical issues.
- Explain technical issues to senior management in a nontechnical manner.
- Communicate effectively in English, orally and in writing.
- Prepare effective written materials for purposes of user and system documentation.
- Establish and maintain effective working relationships with those contacted in the course of the work.

Licenses and Certificates:

None.

Education and Experience:

Equivalent to possession of a bachelor's degree, preferably with major course work in computer science, and three years of experience in the analysis, design, and development of applications and other information systems including one year of lead experience for those positions identified as lead.

Additional experience may be substituted for the education on a year-for-year basis. Possession of a directly related postgraduate degree may be substituted for one year of experience.

OR

One year as an Application Development Analyst with the judicial branch in information systems.