

**SENIOR PROGRAMMER ANALYST**

**Track 24: 87,333.22 - 106,142.29**

- Plan, organize and schedule projects and work assignments; train and provide work direction to assigned programming staff.
- Write, debug, test and document various complex programs using on-line tools, assigned languages and utilities.
- Prepare detailed specifications, reports and documentation on inputs, outputs, database and document control methods; test and debug programs as necessary.
- Participate in the planning, organization and scheduling of projects and work assignments.
- Assists in the acquisition and installation of information technology hardware and software.
- Serves as liaison to vendor(s) for application support and problem resolution; identifies, tracks, and responds to user issues.
- Review and modify existing systems and programs to improve efficiency or to correct logic or procedural problems; estimate time and resource needs and clarify objectives to be accomplished.
- Consult with users to determine systems and program requirements and objectives and to identify problems in existing programs and systems; drive to various sites to discuss projects; determine feasibility of programming projects.
- Use higher programming languages to write and modify programs, system and databases to meet design specifications; test and debug programs as necessary.
- Provide information necessary to produce systems and program documentation and procedures.
- Evaluates, develops, writes and presents systems proposals on operations of moderate and larger scale; prepares documentation, including instructions and procedures for the preparation, processing and control of assigned systems.
- Establishes and maintains programming environment and methodologies.
- Trains and coordinates the work of other programming staff as needed.
- Troubleshoot problems with hardware, software and networks and assist in resolutions.
- Participates in the technology committee and other campus committees.
- Provide trainings and documentation for end-users.
- Perform related duties as assigned.

### **MINIMUM QUALIFICATIONS:**

#### Knowledge of:

- Ellucian Banner ERP database schema.
- Project coordination and planning.
- Principles of training and providing work direction to others.
- Principles and techniques of systems and programming work including analysis, design and documentation.
- Designated computer-programming languages.
- Research and analysis techniques as related to computer programming.
- Techniques of testing and debugging computer programs.
- Modern web-programming languages, environments and concepts to include but not limited to, several of the following: PL/SQL, Pro\*C/Pro\*Java, Java, Visual Basic, HTML5, Java, Javascript/jQuery, ColdFusion, Perl, PHP, AJAX, CSS and XML
- Business intelligence tools such as ODS (Operational Data Store), EDW (Enterprise Data Warehouse) and reporting tools such as ARGOS.

- Database design in one or more of the following environments: Oracle, Microsoft SQL Server, MYSQL and Access.
- Batch and on-line applications.
- Techniques for instructing others in software usage job planning, prioritizing and scheduling techniques.
- Integration of enterprise system components.
- Security measures as they apply to a database environment.
- UNIX, Windows, Macintosh server operating systems and related software applications.
- Interpersonal skills using tact, patience and courtesy.
- Oral and written communication skills.

Ability to:

- Working independently in an environment with multiple demands and frequent interruptions, while meeting schedules and timelines; working sensitively with diverse academic, socio-economic, cultural, disability and ethnic backgrounds.
- Serve as a project leader for assigned projects.
- Perform complex programming duties in the development of computer applications and maintenance of existing programs and systems.
- Utilize standardized programming languages.
- Analyze user needs and develop effective systems and programs.
- Design, code, compile and implement structured computer programs.
- Test, debug and document programs.
- Train others on new programs.
- Preparing clear and concise program documentation, user procedures, reports of work performed, and other written materials
- Translating user department needs into operational applications instructing user department staff in

**ILLUSTRATIVE EDUCATION AND EXPERIENCE:** A typical way to obtain the above knowledge and skill is a combination of education and experience equivalent to:

Bachelor's degree in computer science, business procedures or a closely related field and five (5) years increasingly responsible experience in programming business and/or academic applications in an Oracle database environment.