USF

UNIVERSITY OF SOUTH FLORIDA

Job Title: Applications Developer II

Job Summary

An Applications Developer II applies professional experience and training in information technology and computer programming to the analysis, design, modification, and maintenance of application programs, integrated systems, and/or software solutions. The Applications Developer II researches, analyzes, and defines user requirements, and develops systems and program specifications.

Nature of Work

This is an intermediate level professional information technology position that most often will support a large, advanced computing system. Most Applications Developer IIs will be found in a central IT department such as the Division of Information Technology or a regional campus or a college computer center. This position may also be located in a program, center, or institute where a major function of the unit is the development and support of a specialized application. The essential functions of positions assigned to this classification must include systems analysis and development, applications programming, and/or data base analysis and development. This position requires specialized knowledge of appropriate programming languages and development tools. This is an intermediate level position requiring the ability to complete most development and programming tasks independently, though more complex assignments may require the guidance of an Applications Developer III or Applications Project Manager. Positions in this classification meet the FLSA computer exemption test. The essential functions must be focused on systems analysis and applications development. This is a career professional position at the intermediate level requiring the ability to independently solve operating systems problems.

Examples of Duties

The following list provides examples of the most typical duties for positions in this job class. Individual positions may not include all of the examples listed, nor does the list include all of the work that may be assigned to positions in this job class.

- **Application Programming and Software Development**
  - Develop programming code or software modifications using appropriate languages and tools to optimize resources and meet functional user requirements.

- o Develop program code, assemble/compile code, and debug code to meet user specifications.
- o Use productivity tools to develop and modify applications software.
- o Work with users to test and debug programs.

- **Systems Analysis and Development**
  - o Analyze user system and application needs, determine and evaluate potential solutions, develop system specifications and requirements, and design application programs to meet the requirements.
  - o Consult with users to identify and document requirements.
  - o Evaluate specifications and requirements against available systems and functionality.
  - o Design integrated solutions which may include applications, databases, networks, and related systems.
  - o Develop program specifications and review with user to ensure requirements are met.
  - o Recommend modifications to third party software and/or evaluate the procurement of third party applications.

- **Data Base Analysis and Development**
  - o Structure, implement, and maintain database systems. Establish policies, standards and procedures to ensure useful and readily accessible data.
  - o Design database systems and programs.
  - o Analyze data requirements, develop and document data dictionary, and develop data models.
  - o Work with user community to understand data access and integration needs.
  - o Ensure the integration of systems throughout the database structure.
  - o Monitor database standards and procedures, system usage and performance.
  - o Troubleshoot and resolve database and data problems.
  - o Monitor, analyze, and verify data to ensure data integrity.
  - o Conduct file maintenance.
  - o Maintain the data dictionary

Minimum Qualification Requirements

Bachelor's degree in Computer Science, MIS or other field involving software and analytical training and two years of IT related work experience; or a Bachelor's degree with no specific required field and three years of IT related work experience, OR a Master's degree and one year of IT related work experience, OR a combination of six years of IT related work experience and validated training. Preparation for a relevant IT certification is considered to be related training.