

MT. SAN ANTONIO COMMUNITY COLLEGE DISTRICT

SALARY SCHEDULE: A
SALARY RANGE: 126

CLASS TITLE: SENIOR SYSTEMS PROGRAMMER

BASIC FUNCTION:

Under the direction of an assigned supervisor, perform a variety of specialized duties involved in the planning, design, installation, configuration, operation, monitoring, maintenance and repair of computer hardware and software applications in College large systems servers, storage area network (SAN) and Local Area Network (LAN) environments; assist with various feasibility studies and program design and modification projects.

REPRESENTATIVE DUTIES:

ESSENTIAL DUTIES:

Perform a variety of specialized duties involved in the planning, installation, configuration, modification and maintenance of computer hardware and software applications in College large systems/database servers and LAN environment; schedule and perform system and software updates and upgrades; configure hardware and software to assure proper computer operations

Inspect, troubleshoot, diagnose and resolve LAN and large system servers/database server, hardware and software application malfunctions; asses system performance and identify and resolve problems; monitor systems to assure smooth computer operations; modify system configuration s appropriate; investigate and resolve user technology problems

Collaborate with other technology personnel in various feasibility studies and program design and modification projects to meet College needs, resolve data and operational problems, and provide for system enhancements; research and implement solutions

Install new operating systems and software; test software and hardware and observe elements of the system for evidence of incorrect performance; make adjustments to existing operating systems as needed; maintain and repair operating system configuration

Respond to user and management requests for system upgrades, maintenance and repairs; analyze requests for system and program additions, solutions and revisions; confer with technical personnel to determine system and program requirements, feasibility, operations problems and desired output

Participate in planning, evaluating and recommending future configuration for operating systems and large systems/database servers and network hardware; research evaluate and purchase computer software as appropriate; provide recommendations concerning major hardware and software purchases

Perform a variety of administration activities such as establishing and maintaining user accounts and security access as assigned; configure, monitor and maintain network connection with the Internet, monitor, maintain and assure security of network servers

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Participate in designing, coding, testing and implementing new computer programs for assigned large systems/database servers and LAN environments as directed; develop and maintain related documentation

Provide training to College personnel concerning system operations, applications, malfunctions, troubleshooting and related practices, techniques and procedures; document system procedures for personnel and end users

Communicate with personnel and various outside agencies to exchange information and resolve issues or concerns

Operate a variety of computers, servers, peripherals and specialized software

Maintain various records related to assigned activities

Maintain current knowledge of technological advances in computer system hardware and software

OTHER DUTIES:

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:**KNOWLEDGE OF:**

Practices, procedures and techniques involved in the installation, configuration, operation, monitoring, maintenance and repair of computer hardware and software applications in large system servers/database servers and network environments

Principles, methods and procedures of operating computers and peripheral equipment

Principles, practices and methods of database structures, computer programming and system design.

Manual instructions, sufficient to enable quick and accurate diagnosis of difficulties

Principles, practices, procedures and equipment involved in systems administration

Applicable programming languages

System utilities and design and program applications

Database structures, applications and capabilities of assigned computer systems

Computer hardware systems and software applications utilized by the College

Installation and operation of various computer operating systems software. IBM AIX experience preferred

Oral and written communication skills

Interpersonal skills using tact, patience and courtesy

Record-keeping techniques

ABILITY TO:

Perform a variety of specialized duties involved in the planning, installation, configuration, modification and maintenance of computer hardware and software applications in College large system server/database server environment

Inspect, troubleshoot, diagnose and resolve large system server/database server and LAN environments

Participate in various feasibility studies and program design and modification projects to meet College needs, resolve data and operational problems, and provide for system enhancements
Review, analyze and modify existing systems and programs as necessary
Install, upgrade and configure various software applications and operating systems
Participate in designing, coding, testing and implementing new computer programs as directed
Maintain servers and perform a variety of network administration activities
Operate computers and peripheral equipment properly and efficiently
Meet schedules and time lines
Analyze situations accurately and adopt an effective course of action
Maintain various records related to work performed
Work independently with little direction
Maintain current knowledge of technological advances in the field
Communicate effectively orally and in writing
Establish and maintain cooperative and effective working relationships with others

EDUCATION AND EXPERIENCE:

An A.S. Degree in Computer Science, Computer Information Systems or related field, B.S. degree desirable. IBM AIX certification and IBM Tivoli software certification desirable. Three years experience involving the installation, maintenance and repair of computer hardware and software applications in a large system server/database server and network systems including work with program design and modification.

WORKING CONDITIONS:**ENVIRONMENT:**

Office environment.

WORKING RELATIONSHIPS:

The Senior Systems Programmer maintains frequent contact with various departments, staff, outside vendors, and agencies.

PHYSICAL DEMANDS:

Dexterity of hands and fingers to operate a computer keyboard.
Seeing to read a variety of materials.
Hearing and speaking to exchange information.
Sitting for extended periods of time.
Ability to lift 25 pounds.