

# LINN COUNTY CLASSIFICATION

**TITLE: DATA CENTER ENGINEER**

**NUMBER: 081**

**APPROVAL ORDER NUMBER: 2022-143**

**PAY RANGE: 21**

**DATE: APRIL 19, 2022**

**CATEGORY: MANAGEMENT/EXEMPT**

GENERAL STATEMENT OF DUTIES/JOB OBJECTIVES: Ensures the stability and integrity of the County's data center locations to keep consistent uptime for the County. All equipment stored within the data center locations will be the responsibility of the Data Center Engineer with cooperation when needed from Network Engineering, Cybersecurity Engineering and the Information Technology (IT) Director. Manages the installation, monitoring, documenting, maintaining, supporting and optimizing of all server hardware, server software and server networking to ensure efficient and secure systems are maintained at all times. Analyzes and resolves server hardware and software problems in a timely and logical manner. Works to ensure the data center locations are clean, well-organized and devoid of obsolete equipment at all times. Provides training to IT staff and end users where required to support the data center locations. Works after business hours on weekends or evenings when a need arises for the position.

SUPERVISION RECEIVED: Works under the supervision of the IT Director who assigns duties and evaluates performance.

SUPERVISION EXERCISED: Supervision of other employees is not a normal responsibility of this position. May assist in the orientation and training of new employees.

ESSENTIAL FUNCTIONS: A person employed in this classification must possess the capability to perform the following duties to be considered for and remain in this position. The duties are essential functions requiring the critical skills and expertise needed to meet job objectives. Additional specific details of these essential functions may be provided by the specific office or department job announcement, if applicable.

1. Server Room Management – Schedule preventative maintenance for all equipment and supporting equipment such as UPS, fire and environmental monitoring systems; maintain all critical and non-critical systems contained within data centers; maintain a clean and well-organized server environment with ownership of all equipment housed within data center locations; engineer and design all rack space for all County data center locations; upgrade systems to ensure County systems are always current; work with onsite vendors and County service providers and proactively work with the IT Director to create a vision for future growth.
2. VMWare Virtual Server Administration - Maintain VMWare patching to ensure it is current; maintain VMWare hardware to meet current and future needs and propose expansion or enhancements as potential need arises.
3. Backup Systems Administration - Maintain all server backup systems for the County and maintain tape storage locations to ensure environmental and security needs are met in all locations.

4. Storage Array Administration - Maintenance and ownership of all County storage devices contained within the data center and monitor storage capacity used and strategize with IT Director on corrective measures.
5. Server Network Administration - Manages the network connections between the data center servers and the County network infrastructure and design of networking technologies for servers to exceed current needs.
6. Server Security and Update Management - Perform weekly security updates to all servers; apply firmware/driver updates to all servers when available and work with Cybersecurity Engineering to ensure WSUS servers are operational and providing needed updates to all County servers.
7. Continued Education and Training - Continue education on data center server, networking, and data center utility needs to ensure the County is at the forefront of technology needs and attend trainings and classes when new technologies need to be implemented.
8. Develop and maintain effective, harmonious and reasonable work relationships with others.
9. Maintain regular and predictable work attendance.

OTHER FUNCTIONS: This classification covers the most significant essential functions performed by an employee in this position but it does not include other occasional work which may be similar to, related to or a logical assignment of this position. Any one position in this classification may be assigned some or all of the duties listed under essential functions or that arise as other functions. The balance of the various duties, responsibilities and/or assignments of this position may change from time to time based upon management's decisions on how to best allocate resources. Any shift, emphasis or rebalancing does not constitute a change in the essential functions of the job classification.

RECRUITING REQUIREMENTS: (Additional specific details may be provided by the specific office or department job announcement, if applicable).

KNOWLEDGE, SKILL AND ABILITY: Knowledge, experience and successful deployments within a data center supporting server hardware, software, networking and implementation. Best practice knowledge for data center infrastructure and environments. Strong hands-on technical knowledge of server operating systems, server hardware, desktop operating systems and backup systems. The following software packages will need to be known and used within this position: Microsoft Server OS, Linux, BeOS, Windows 11/10/7, FreeNAS, Veeam Backup System, vSphere, VMWare One, Infinio RAM Cache, Cisco IOS, HP Blade Chassis and Sentinel One. Skill in analyzing and fixing server hardware, software and network problems. Ability to work with department heads and elected officials to communicate and deliver requirements from the County data center locations. Ability to work with minimal supervision. Ability to learn and adapt to current and changing technologies. Ability to communicate effectively, both orally and in writing, with technical and non-technical staff. Ability to establish and maintain a harmonious working relationship with elected officials, County department heads and other County employees.

EXPERIENCE, EDUCATION AND TRAINING: An Associate's Degree in a computer related discipline from an accredited institution and three years' experience supporting server infrastructure in a data center environment or any satisfactory equivalent combination of experience, education and training which demonstrates the ability to perform the work described.

NECESSARY SPECIAL QUALIFICATIONS: Possession of a valid motor vehicle operator's license and an acceptable driving record at the time of appointment may be a condition of employment. Must be able to pass a criminal background check.

PHYSICAL DEMANDS AND WORK ENVIRONMENT: Work is generally performed indoors in an office environment and requires the ability to see, talk and hear; sit, stand, walk, bend and stoop; use hands to finger, handle or operate objects, tools and controls; reach with hands and arms and lift or move thirty (30) pounds.