MAJOR FUNCTION
This is high level professional work with a range of technical and administrative responsibilities including a mixture of strong networking skills, experience administering server environments, deployment and subsequent management of edge computing and/or Internet of Things (IoT) devices, support for broadcast engineering equipment and a deep desire to learn new technologies in the smart city arena. Has broad discretion to identify areas of opportunity for Tallahassee to engage in new smart city endeavors. Serves as a mentor to junior smart city engineer positions to educate them on existing platforms, best practices, and areas of expansion. Works with other departments within the City to provide digital signage, mobile wifi, broadcast capabilities or other services as necessary. Works closely with the Enterprise Infrastructure and Information Security groups within Technology and Innovation to ensure that ongoing and proposed future projects are in alignment with the long-term goals and capabilities of those teams. Work is performed under the supervision of the Innovation Manager and is reviewed for achievement of desired results through regular status meetings.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES

Essential Duties
Responsible for overarching management of edge computing, IoT, and digital signage related to smart city projects that include a wide variety of technical challenges as well as interfacing with vendors, third party integrators, and customers representing any department within the City of Tallahassee. Responsible for development of a workable long-term strategic plan regarding edge computing and remote data capture that can be incorporated into the existing and proposed City of Tallahassee infrastructure and information security roadmaps. Responsible for evaluating existing environments at the City of Tallahassee and suggesting how an IoT solution could streamline a process or otherwise add value. Responsible for taking initiative to understand future bottlenecks in existing smart city solutions and provide recommendations on changes that will address those problems. Provide mentoring and knowledge transfer to junior smart city engineer positions regarding existing solutions, best practices, and project management. Responsible for creation of a roadmap for improved public access to City provided Wifi through mobile devices, mounted access points or mesh networks. Collaborate with others in the Innovation and Infrastructure groups to implement and populate a data lake. Provide support to areas with existing digital signage, broadcasting, or IoT solutions. Provide support and enhancements for mobile wifi coverage to City and non-city events. Work well in a team environment including collaboration on projects, sound verbal and written communication skills, and well-developed documentation capabilities.

Other Important Duties
Periodically performs evaluations of enterprise solutions to determine if they are an appropriate fit for the organization. Participates in educational opportunities. Has an active interest in keeping up with new developments in the smart city landscape by participating in webinars, speaking engagements, or forums in the smart city community. Pursues extended education on best practices by training and/or certifications in tools being used at the City.

DESIRABLE QUALIFICATIONS

Knowledge, Abilities and Skills
Experience working with Internet of Things based devices such as beacons, sensors, cameras, or other network aware devices designed to collect data and interact with environments distant from a data center. Experience working with network systems analysis and firewalls from a variety of vendors. Virtual Private Networks, server administration and IT management best practices. The ability to work independently and manage multiple projects simultaneously. Extensive knowledge of wireless networks and the experience deploying and configuring wireless networks in a variety of

venues. Experience with wireless networks that are not TCP/IP based. Previous experience using cloud providers for a variety of uses including Integration and/or infrastructure as a service. Knowledge of server set up, configuration, and maintenance. Experience in the audio / visual realm related to broadcast television. Knowledge of task tracking, test case management, and system documentation software. An intellectually curious mindset and willingness to take on projects that are on the forefront of emerging technologies.

Minimum Training and Experience
Possession of a bachelor's degree in data processing, information systems, computer science or a related field and five years of professional and technical experience that includes managing server environments, installation and maintenance of network communications systems and firewalls, wireless networks, network design, Internet/Intranet support, VPN design and support, television broadcast and/or audio visual components; or an equivalent combination of training and experience. Must also have two years of experience working with edge computing devices and Internet of Things related products.

Necessary Special Requirement
Designated positions assigned to this class may require a valid Class E State driver's license at the time of appointment.

Established: 08-28-21