



City of Tempe

ENTERPRISE NETWORK ENGINEER I+

JOB CLASSIFICATION INFORMATION

<i>Job Code:</i>	354	<i>Department:</i>	Engineering & Transportation / Information Technology
<i>Supervision Level:</i>	Non-Supervisor	<i>State Retirement Group:</i>	ASRS
<i>Status:</i>	Classified	<i>Market Group:</i>	Enterprise Network Engineer II+
<i>Safety Sensitive / Drug Screen:</i>	No	<i>Physical:</i>	No

Click [here](#) for more job classification information including current salary range

DISTINGUISHING CHARACTERISTICS

This is the entry level class in the Enterprise Network Engineer series. This class is distinguished from the Enterprise Network Engineer II+ by the performance of the more routine tasks and duties assigned to positions within the series. When assigned to Information Technology, these duties include fundamental testing and maintenance of telecommunication, cybersecurity or LAN/WAN systems. When assigned to Engineering & Transportation (E&T), these duties include designing, installing and maintenance of Intelligent Transportation Systems (ITS). Since this class is typically used as a training class, employees may have only limited related work experience.

REPORTING RELATIONSHIPS

Receives direction from the IT Supervisor, Traffic Engineer or from other supervisory or management staff.

MINIMUM QUALIFICATIONS

<i>Experience:</i>	<p><u>When assigned to Engineering & Transportation (E&T):</u></p> <p>Transportation engineering experience is preferred.</p> <p><u>When assigned to Information Technology:</u></p> <p>Two (2) years of experience in LAN/WAN, information security or telecommunications infrastructure.</p>
<i>Education:</i>	Equivalent to a bachelor's degree from an accredited college or university with major course work in electronics, communications, systems or civil engineering or degree related to the core functions of this position.
<i>License / Certification:</i>	Possession of a valid driver's license.

	<p><u>When assigned to Engineering & Transportation (E&T):</u></p> <ul style="list-style-type: none"> ● Possession of, or required to obtain within six (6) months, a valid Cisco Certified Network Associate (CCNA) or equivalent certification. ● Possession of an Engineer In Training (EIT) certificate is preferred. <p><u>When assigned to Information Technology:</u></p> <p>Possession of, or required to obtain within six (6) months, a Cisco Certified Network Associate (CCNA) certification.</p>
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ESSENTIAL JOB FUNCTIONS

Essential job functions are the fundamental duties of a position: the things a person holding the job absolutely must be able to do.

To actively support and uphold the City’s stated mission and values. To perform technical work in the long-range planning, design, and management of the electronic communications infrastructure utilized by the City; and to provide technical assistance to staff in the installation and maintenance of voice, data, cybersecurity, video conferencing and radio equipment.

OTHER DUTIES AS ASSIGNED

Please note this job description is not designed to cover or contain a comprehensive listing of all activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.

- Develop tactical and long-range plans for the City's LAN/WAN, cybersecurity and telecommunications infrastructure; perform routine analysis on the design and efficiency of the infrastructure to ensure that its current and future structure will meet the business needs of the City; install and maintain LAN/WAN, cybersecurity and telecommunications infrastructure equipment; administer software related to management of the infrastructure.
- Act as project coordinator for technical projects of moderate complexity in such areas as integrated voice and data, local area and wide-area networks, video, wireless systems, trunked radio and related infrastructure.
- Assist in developing complex technical specifications for the design or purchase of communications equipment including fiber optic systems, high-speed cable, cybersecurity solutions, voice/data switches and routers, and related equipment; evaluate communications products.
- Assist in the development and implementation of long-term goals and objectives to meet the City's LAN/WAN, cybersecurity and telecommunications infrastructure needs.
- Research LAN/WAN, cybersecurity and telecommunications infrastructure equipment to ensure that it meets the specifications established by the City; recommend design, construction, installation, and maintenance of equipment.
- Manage building projects including horizontal cabling, communications needs, underground assets, and permitting.

- Prepare operational reports including project status, equipment, network, inventory and area activity summaries; develop and maintain procedures manuals.
- Participate in budget preparation and administration; prepare cost estimates for budget recommendations; monitor and control expenditures.
- Participate in the selection of staff.
- Maintain contact with vendors to obtain information on product changes and new products; call vendors for status reports on purchases.
- Attend professional meetings and conferences as required.
- Perform related duties as assigned.

When assigned to Engineering and Transportation (E&T):

- Perform technical transportation engineering and computer applications work to support the Tempe transportation system, development and operations of the Tempe transportation operations center, the Light Rail transit (LRT) project, the Streetcar project and other Intelligent Transportation System (ITS) initiatives.
- Develop, monitor and updates traffic signal timing plans and implement citywide traffic signal coordination plans using the City's traffic signal computer system; conduct field observations to test traffic signal timing programs and related ITS operations.
- Participate in developing the plans, specifications and estimates for the Traffic / Transit Operations Center and Transit maintenance facilities; coordinate the development of the traffic signal / train interface for Tempe; interact with private developments with regard to LRT signal and other traffic issues.

PHYSICAL DEMANDS AND WORK ENVIRONMENT

- Operate city vehicles;
- Work is performed in a general office environment with moderate noise;
- Operate a variety of standard office equipment including a computer, telephone, calculator, copy machine;
- Continuous and repetitive arm, hand and eye movement;
- May work in a stationary position for considerable periods of time;
- May lift and carry materials weighing up to 25 pounds;
- May require extensive reading and close vision work;
- May require working extended hours;
- May work alone for extended periods of time;
- May travel to/from meetings and various locations.

COMPETENCIES

<i>CLASSIFICATION LEVEL</i>	<i>INCLUDES</i>	<i>COMPETENCIES</i>
Foundational	All Employees	Inclusion, Communication, Interpersonal Skills, Integrity, Professionalism, and Willingness to Learn

Non-Supervisory	In Addition >	Teamwork, Customer Service, Initiative, and Dependability / Reliability
Supervisory	In Addition >	Staffing, Monitoring Work, Delegating, Development / Mentoring, and Support Others
Manager	In Addition >	Preparing / Evaluating Budgets, Monitoring / Controlling Resources, and Motivating / Inspiring
Deputy Director	In Addition >	Entrepreneurship and Networking
Director	In Addition >	Organizational Vision
<p><i>For more information about the City of Tempe's competencies for all classifications:</i></p> <p>City of Tempe, AZ: Competencies</p>		

JOB DESCRIPTION HISTORY
<p><i>Effective November 1988</i></p> <p><i>Reviewed October 1995</i></p> <p><i>Revised April 2001</i></p> <p><i>Revised November 2001</i></p> <p><i>Revised May 2002 (changed to flex-class)</i></p> <p><i>Revised July 2003 (title change; range adjustment; duties to include additional LAN/WAN focus)</i></p> <p><i>Revised January 2008 (Certs)</i></p> <p><i>Revised December 2019 (Added when assigned to Eng & Transportation min quals and job duties)</i></p> <p><i>Revised September 2022 (Update minimum quals for IT position)</i></p>