



City of Tempe

ENTERPRISE NETWORK ENGINEER II+

| JOB CLASSIFICATION INFORMATION | | | |
|---|----------------|--------------------------------|---|
| <i>Job Code:</i> | 385 | <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 |
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| <p>This is the journey level class within the Enterprise Network Engineer series. Employees within this class are distinguished from the Enterprise Network Engineer I+ by the performance of complex duties. When assigned to Information Technology, these duties include essential testing and maintenance of telecommunications, cybersecurity and LAN/WAN analysis and design duties. When assigned to Engineering & Transportation (E&T), these duties include designing, installing and maintenance of Intelligent Transportation Systems (ITS). Employees at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I-level, or when filled from the outside, more extensive telecommunications, LAN/WAN or ITS experience is required.</p> |

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

| MINIMUM QUALIFICATIONS | |
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| <i>Experience:</i> | <p><u>When assigned to Engineering & Transportation (E&T):</u></p> <p>Four (4) years of engineering experience and project management. In addition, two (2) years of experience in transportation engineering.</p> <p><u>When assigned to Information Technology:</u></p> <p>Three (3) years of experience in LAN/WAN, telecommunications, or information security infrastructure.</p> |

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| <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> | <p>Possession of a valid driver's license.</p> <p><u>When assigned to Engineering and Transportation (E&T):</u></p> <ul style="list-style-type: none"> ● Possession of a valid Cisco Certified Network Associate (CCNA) or equivalent certification. ● Possession of a Certificate of Registration as a professional engineer in the State of Arizona is preferred. <p><u>When assigned to Information Technology:</u></p> <ul style="list-style-type: none"> ● Possession of a Cisco Certified Network Associate (CCNA) certification. ● Possession of, or required to obtain within six (6) months of hire, one (1) of the listed certifications. |

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, cybersecurity and related infrastructure.
- Assist in developing complex technical specifications for the design or purchase of communications equipment including fiber optic systems, high-speed cable, voice/data switches and routers, cybersecurity solutions 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 | | |
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| CLASSIFICATION LEVEL | INCLUDES | COMPETENCIES |
| 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> City of Tempe, AZ: Competencies</p> | | |

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