

TRAFFIC SYSTEMS ENGINEER - 233

DEFINITION OF WORK

Under regular supervision, performs responsible technical work in assisting in the operation, maintenance, expansion and supervision of repairs to the City's traffic and parking computer systems; does related work as required.

EXAMPLES OF WORK

Determines and details the methods of intergrating traffic signals into a computer based traffic signal system; diagnoses operational problems in real-time, on-line process control computer and related hardware and directs repairs; assists in software programming of new and revised traffic and parking control strategies; assists in the testing of new and revised software programs; directs and supervises repairs to computer and computer related hardware and supervises technical personnel in the performance of such repairs; directs and supervises the operation and repairs of TDM communications equipment.

EMPLOYMENT STANDARDS

Education and Experience: Any combination of education and experience equivalent to a bachelor's degree in electrical engineering supplemented by courses in computers and computer related hardware and their operations, with experience in realtime on-line operating computer systems.

Knowledge, Skills and Abilities: Knowledge of the principles and theories of the design and operation of real-time operating computer systems, including their logic, circuitry and memory; knowledge of the principles of digital computers, microprocessors, disc systems, teletypewriters, high speed printers, CRT's, communications equipment, test equipment, diagnostic equipment and general electronics; knowledge of real-time computer software programming and computer languages, including FORTRAN IV and assembly languages; ability to diagnose causes of hardware and software failures and to prescribe appropriate solutions and/or repairs; ability to supervise, guide and direct electronics technicians in repairs to systems; ability to work with software programmer in developing and revising operational programs.

SPECIAL REQUIREMENT

Registered as a Professional Engineer in the State of North Carolina.

