

SYSTEMS PROGRAMMER

DISTINGUISHING FEATURES OF THE CLASS:

This is a high level technical and professional position responsible for the installation, maintenance and integrity of the systems software utilized in the Dutchess County Computer Center. This class differs from Systems Analyst by virtue of a concentration of work on the installation and maintenance of systems software with little or no contact. Systems Analyst concentrates on applications development with extensive user contact. Work is performed under the general supervision of a higher level administrative employee. Training may be provided to, and supervision may be exercised over the work of subordinate employees.

TYPICAL WORK ACTIVITIES:

1. Evaluates operating system releases and upgrades, makes recommendations, and installs and maintains the software;
2. Evaluates procedure-oriented computer languages and utility programs, makes recommendations, and installs and maintains the implemented program products;
3. Monitors, manages and controls the computer center's access methods and teleprocessing network;
4. Assures the compatibility of the program product mix;
5. Assists in educating personnel in the usage of enhanced program aids and provides continuing technical assistance;
6. Conducts computer resource performance measurements, balances and improvements;
7. Works with Operations to determine and recommend increased hardware capabilities;
8. Identifies, evaluates, justifies and recommends productivity tools;
9. Aids in establishing programming standards;
10. Performs special assignments in investigating new technologies as they emerge and evolve;
11. Does related work as required.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Thorough knowledge of the current principles, practices, methods, capabilities and techniques of high-speed electronic data processing including hardware, software and teleprocessing; thorough knowledge of the principles, practices and methodologies and competitive computer operating systems and their respective implementations; thorough knowledge of Assembler language; good knowledge of the concepts, facilities and internals of subsystems, utility programs and programming languages; good knowledge of network architecture, capacity planning and performance monitoring; working knowledge of the principles and practices of systems analysis and statistical analysis; ability to communicate effectively, both orally and in writing; ability to establish and maintain effective working relationships; ability to independently investigate, learn and explain emerging technologies; tact; courtesy; physical condition commensurate with the demands of the position.

SYSTEMS PROGRAMMER (Cont'd)

MINIMUM QUALIFICATIONS:

- EITHER: (A) Graduation from a New York State recognized or regionally accredited college or university with a Bachelor's degree and three years of experience as a Systems Programmer including working with DOS/VSE, CICS, CMS, DL/I, VM and COBOL;
- OR: (B) Graduation from high school or its equivalent and both one year of experience as a Systems Analyst and four years of experience as a Systems Programmer including working with DOS/VSE, CICS, CMS, DL/I, VM and COBOL;
- OR: (C) Any equivalent combination of training and experience within the parameters of (A) and (B) above.

NOTE: The existing configuration at Dutchess County is an IBM 4341 running under DOS/VSE, VM with CICS, CMS, DL/I, VSAM, BTAM, DMS and SPM.