COMPUTER APPLICATIONS PROGRAMMER

DISTINGUISHING FEATURES OF THE CLASS: This is a technical position involving responsibility for developing, testing and debugging new programs for an electronic data processing system. The incumbent is also responsible for web site development. The work is performed under the general direction of a higher level technical individual with wide leeway allowed for the exercise of independent judgment in the technical aspects of the work. Technical supervision may be given to computer operators and data entry personnel. Does related work as required.

TYPICAL WORK ACTIVITIES: The typical work activities listed below, while providing representative examples of the variety of work assignments in the title, do not describe any individual position. Incumbents in this title may perform some or all of the following, as well as other related activities not described.

Designs and revises programs for new and old computer applications;

Prepares test data, tests and debugs new application programs to assure completion according to pre-determined requirements;

Documents applications programs noting functions of program and associated information for future reference;

Consults with a higher level technical employee, to implement customer needs;

Notifies appropriate personnel of system errors or failures;

Provides training for users in the application of computer programs;

Reads and analyzes program debugging aids to determine errors in programs;

Attends seminars and conferences on new developments in data processing and the use of new vendor software packages;

May assist with automation analysis;

May implement vendors written automation systems;

May develop and implement web sites;

May integrate databases into web sites.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Good knowledge of the principles of computer programming; good knowledge of current programming development languages; good knowledge of the principles and applications of data processing; good knowledge of office terminology; ability to explain the uses and limitations of data processing to others; ability to train others in computer usage; ability to communicate effectively with others; accuracy; initiative.

<u>**MINIMUM QUALIFICATIONS**</u>: Either:

A. A Bachelor's Degree in Computer Science or related field; **OR**

B. An Associate's Degree in Computer Science or related field and two (2) years of paid programming experience in a computer center environment; **OR**

C. Possession of a diploma or certificate of completion for a course of study in computer programming from a technical school licensed by the New York State Department of Education and three (3) years of paid programming experience in a computer center environment; **OR**

D. Graduation from high school or possession of a high school equivalency diploma and four (4) years of paid programming experience in a computer center environment; **OR**

E. An equivalent combination of A, B, C and D above.

<u>**Note 1:**</u> College level study in Computer Science or related field may be substituted on a year-for-year basis for the above mentioned degrees; must include a minimum of twelve (12) semester credit hours in computer science courses and a minimum of nine (9) semester credit hours in computer related mathematics courses. However, college courses may <u>not</u> be substituted for at least one year of the above-mentioned paid experience.

<u>**Note 2:**</u> Examples of current programming development languages include but are not limited to: HTML, JavaScript, Microsoft Access, Visual Basic, SQL, Python, CSS, C++, PHP and Java.