

ASSISTANT ENGINEER - MECHANICAL

Code No. 3-14-183
940137
COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This is a professional engineering position involving responsibility for the application of mechanical engineering principles in the safe and economic design of heating, ventilating, and plumbing systems in buildings. Employees in this class perform moderately difficult mechanical engineering work in the layout and design of mechanical features of buildings that are in process of alteration, repair, or construction. Work is performed under the direct supervision of a senior level staff member. Supervision may be exercised over a professional and clerical staff, and over construction activities. Does related work as required.

TYPICAL WORK ACTIVITIES:

Assists in the preparation of plans, specifications, and designs for heating, ventilating, and plumbing systems of new buildings, and repairs and alterations to existing buildings;

Assists in designing, planning, and cost estimating building alterations and improvements;

Prepares estimates of materials needed, compiles and records engineering data;

Inspects construction in progress, and upon completion, checks for conformity with plans, specification and quality of materials;

Inspects public properties for needed repairs and alterations and recommends improvements;

Performs various professional tasks relating to the construction and maintenance of buildings.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Thorough knowledge of the principles and practices of mechanical systems design and of the use of appropriate material; good knowledge of the principles of engineering as applied to the design and construction of large buildings; good knowledge of building alterations and improvements, and of engineering instruments and equipment; working knowledge of the laws and regulations applying to buildings; skill in mathematics; ability to express engineering concepts in drawings and specifications; ability to follow oral and written instructions; mechanical aptitude; analytical ability; good professional judgment; dependability; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Mechanical Engineering, plus three (3) years of paid full-time or its part-time equivalent experience in mechanical engineering, one (1) year of which shall have included work in the design and lay-out of large buildings.

SPECIAL REQUIREMENTS: Depending on the position duties, candidates for employment with Monroe County Government will be required to pass a pre-employment drug test.

SPECIAL REQUIREMENT FOR APPOINTMENT IN SCHOOL DISTRICTS AND BOCES

Per Chapter 180 of the Laws of 2000, and by Regulations of the Commissioner of Education, to be employed in a position designated by a school district or BOCES as involving direct contact with students, a clearance for employment from the State Education Department is required.

REVISED: October 24, 1974

REVISED: October 1, 1981