

DIRECTOR OF ENGINEERING

DISTINGUISHING FEATURES OF THE CLASS: This position involves the preparation of technical documents pertaining to the development and operation of landfills, energy recovery facilities and related components. This position requires extensive interaction with operating staff of the energy recovery facility, landfill, the State Department of Environmental Conservation and other agencies. The employee in this class supervises technical engineering recycling, and clerical staff. The work is performed under the direction of the Executive Director of the Oneida-Herkimer Solid Waste Management Authority. The incumbent does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

- Prepares necessary permit applications for development and operation of landfills, energy recovery facilities and other solid waste management systems;
- Develops scopes of services for engineering and environmental work to be done by consultants related to solid waste management activities;
- Prepares requests for proposals for facility construction and expansion to comply with state and federal solid waste regulations, New York State Building code and other applicable regulations;
- Develops material requirements and construction specifications for various maintenance, repair, renovation and new construction projects involving landfills and equipment, and facilities associated with energy recovery;
- Provides technical assistance in areas of research, evaluation, cost estimates, recommendations, development of plans and specifications, for solid waste management projects;
- Inspects energy recovery facilities and landfills, to determine areas requiring repair and recommends type of work necessary;
- Prepares economic and cost analysis, feasibility studies, compliance reports, reliability analysis and other engineering reports for a wide range of projects;
- Conduct inventories of special wastes (i.e., industrial, hospital) and develops management proposals for these wastes;
- Conducts inventories (through weighing and visual inspection) of the solid waste stream generated locally and determines disposition guidelines;
- Represents the County in adjudicatory and legislative permit hearings coincident with the development of any new solid waste facilities;
- Meets with local government representatives to explain facility proposals and obtains input;
- Monitors new developments in solid waste facilities equipment on an ongoing basis;
- Monitors locally available solid waste disposal facilities and capabilities.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Thorough knowledge of the purposes, principles, and practices of solid waste management systems, including but not limited to waste processing, incineration, landfilling and recycling; thorough knowledge of state, federal, and local regulatory requirements for the handling, transport and disposal of solid waste; good knowledge of current industrial practices and techniques that apply to maintenance, repair, renovation, modification and new construction of solid waste management facilities; skill in coordinating and applying engineering projects; ability to develop a comprehensive outline of analytical protocols required for engineering design, modeling and permitting; ability to understand and convey differences in solid waste system technologies; ability to prepare complex engineering plans; ability to communicate clearly and concisely both in writing and verbally; ability to supervise technical and clerical staff; sound professional judgment; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either:

- (A) Possession of a Master's Degree from a regionally accredited or New York State registered college or university in civil engineering, mechanical engineering or environmental engineering and one (1) year of experience in the design, construction, management or operation of a solid waste management facility or an industrial plant or other facility which has complex mechanical equipment; **OR**
- (B) Graduation from a regionally accredited or New York State registered four (4) year college or university with a Bachelor's Degree in civil engineering, mechanical engineering, or environmental engineering and two (2) years of experience in the design, construction, management or operation of a solid waste management facility or an industrial plant or other facility which has complex mechanical equipment; **OR**
- (C) An equivalent combination of experience and training as defined by the limits of (A) and (B) above.