

MECHANICAL ENGINEER

Job Code	Pay Grade
13794	CL22

Nature of Work

This is advanced professional and expert mechanical engineering work performing technical review and coordination of Heating, Ventilating, and Air Conditioning (HVAC), electrical, plumbing, and fire sprinkler engineering for one or more major county facility complexes. Employees in this class are responsible for planning, coordinating, and reviewing the work of professional and technical employees engaged in planning, construction, operations, maintenance, and administration of large projects. The incumbent coordinates and recommends courses of action on major mechanical systems and may supervise specialized projects, subprojects or personnel. Emphasis is placed on coordination, control, and accountability for line and staff efforts in ongoing technical engineering review and modification of systems with an overriding objective to achieve efficiencies and improvements in the county's operating, construction, maintenance, cost, and customer support processes. Work is performed with considerable independence. The incumbent reports to a senior management official or designee.

Minimum Qualification Requirements

- Bachelor's degree with major coursework in mechanical engineering or a related field and 6 years experience in the design, review, construction, coordination, and management of major building infrastructure and/or major building mechanical systems in the assigned engineering related technical, professional or program management field with an understanding and experience in the use of CAD systems that includes 2 years of highly complex mechanical and technical leadership or supervisory experience; or
- An equivalent combination of education, training, and/or experience.

Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Registration in the State of Florida as a Professional Engineer may be required.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

Illustrative Tasks (These are examples and are not all inclusive.)

- Supervises, plans, and directs the activities of HVAC, electrical, plumbing, and fire sprinkler engineering program management that causes major impact on budget and operating costs.
- Prepares scope of services, schedules and cost estimates; reviews and comments on all construction and/or performance contract documents including plans & specifications; coordinates staff review with consultant's efforts to resolve conflicts.
- May supervise an administrative section responsible for engineering, site plan reviews, permitting and/or contract management and compliance.
- Represents the county for the coordination of mechanical engineering projects including assisting with the selection process for consultants or general contractors, preparing scopes of work, preparing contracts and directing, reviewing and coordinating consultants' work on several projects simultaneously.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of advanced mechanical engineering principles and practices and the ability to apply those principles.
- Knowledge of modern professional engineering practices and procedures as they apply to vertical construction projects.
- Knowledge of modern developments, current literature, and sources of information in engineering.
- Knowledge of modern office practices and procedures.
- Knowledge of supervisory techniques, record keeping, and report writing.
- Skill in the use of engineering instruments and equipment and ability to utilize computer applications for engineering design, drafting, mapping, plan preparation, and scheduling.

MECHANICAL ENGINEER (continued)

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Knowledge, Skills, and Abilities (continued)

- Ability to coordinate and manage large construction, operations, maintenance projects, budgets, plans, and related costs.
- Ability to plan, assign, motivate, train, and supervise technical and clerical employees.
- Ability to give technical and professional review to a wide variety and large volume of engineering plans, specifications, and related documents.

For official use only

Revised	EEOC Code	Overtime Code
5/10	Professionals	Classified/Excluded